# INFORMATION REQUIREMENTS FOR HEAT PUMPS

All DC Inverter V8/V8i ECO Series VRF Outdoor Unit

Original instructions. Please read this manual carefully and keep it for future reference.

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## **1 FOR V8 ECO COMBINABLE SERIES**

#### 8HP

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | s fo    | or air-to-air cond                                                     | litione    | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|---------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8-252WV<br>Test matching indoor u         |               |               | IH45Q4N18(0                         | Q)+3:   | ×MIH71Q4N18(Q)                                                         |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner:  | air                                 |         |                                                                        |            |          |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | ir                                  |         |                                                                        |            |          |      |
| Type: compressor drive                                | en            |               |                                     |         |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | r             |                                     |         |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |         | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 25.20         | kW                                  |         | Seasonal space cooling<br>energy efficiency                            | Ŋs,c       | 290.2    | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |         | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 25.20         | kW                                  | ·       | Tj=+35°C                                                               | EERd       | 3.21     |      |
| Tj=+30°C                                              | Pdc           | 18.57         | kW                                  | ·       | Tj=+30°C                                                               | EERd       | 4.96     |      |
| Tj=+25°C                                              | Pdc           | 11.94         | kW                                  | ·       | Tj=+25°C                                                               | EERd       | 8.35     |      |
| Tj=+20°C                                              | Pdc           | 7.83          | kW                                  |         | Tj=+20°C                                                               | EERd       | 16.60    |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |         |                                                                        |            |          |      |
|                                                       |               | Power consu   | imption in mo                       | des (   | other than "active mode"                                               |            | •        |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |         | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |         | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       | I             |               | Othe                                | er itei | ms                                                                     | 1          | I        |      |
| Capacity control                                      |               | variable      |                                     |         | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 12600    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 83            | dB                                  |         |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |         |                                                                        |            |          |      |
| Contact details<br>(*)If Cdc is not determin          | ed by meas    | urement, the  | en the default                      | degr    | radation coefficient of heat pu                                        | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-252WV2RN1E(ECO)

Test matching indoor units form, cassette: 1×MIH45Q4N18(Q)+3×MIH71Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Rated heating capacityPrated.h25.20kWSeasonal space heating<br>energy efficiency $\eta_{s,h}$ 170.2%Declared heating capacity for part load at indoor<br>teperature 20°C and outdoor temperatures TjDeclared coefficient of performance or gas utilisation<br>efficiency/auxiliary energy factor for part load at given<br>outdoor temperatures TjTj=-7°CPdh12.12kWTj=-7°CCOPd2.68Tj=+2°CPdh7.38kWTj=+2°CCOPd4.17Tj=+12°CPdh5.57kWTj=+12°CCOPd6.11Tj=+12°CPdh6.24kWTj=+12°CCOPd2.26Tou=operation<br>temperaturePdh13.70kWTou =operation temperatureCOPd2.26Tou=operation<br>coefficient for<br>heat pumps(**)Pdh13.70kWTou =operation temperatureCOPd2.26Power consumption in modes other than "active mode"Supplementary heaterSupplementary heaterOff mode<br>CahPOFF0.005kWBack-up heating capacity(*)elbu0kWThermosat-off modePorF0.005kWStandby modePss0.005kWCrankcase heater modePcc0.005kWStandby modePss0.005kW                                                                                                                                                                                                                     | •                          |             |               |                |                                        |              |             |      |  |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------|-------------|---------------|----------------|----------------------------------------|--------------|-------------|------|--|
| Nation locating capacityPrates,n2:3:20NVenergy efficiencyIs,nI'0:270Declared heating capacity for part load at indoor<br>teperature 20°C and outdoor temperatures TjDeclared coefficient of performance or gas utilisation<br>efficiency/auxiliary energy factor for part load at given<br>outdoor temperatures TjTj=-7°CPdh12:12KWTj=-7°CCOPd2.68Tj=+2°CPdh7.38KWTj=+2°CCOPd4.17Tj=+7°CPdh5.57KWTj=+12°CCOPd6.11Tj=+12°CPdh6.24KWTj=+12°CCOPd2.26Tou-operation<br>temperaturePdh13.70KWTou =operation temperatureCOPd2.26Docafficient for<br>heat pumps(**)Pdh13.70KWTou =operation temperatureCOPd2.26Degradation<br>coefficient for<br>heat pumps(**)Cdh0.25Off modePorF0.005KWBack-up heating capacity(*)elbu0KWThermosat-off modePCK0.005KWStandby modePss0.005KWCapacity controlvariableStandby modePss0.005KWStandby modePss0.005KWConficient for<br>heat pumps(**)Qsskg CO2 eq<br>(100years)foor rate, outdoor measured12600m <sup>5/</sup> Conficient for<br>heat pumps(**)Qsskg CO2 eq<br>(100years) <t< td=""><td>Item</td><td>Symbol</td><td>Value</td><td>Unit</td><td>Item</td><td>Symbol</td><td>Value</td><td>Unit</td></t<> | Item                       | Symbol      | Value         | Unit           | Item                                   | Symbol       | Value       | Unit |  |
| efficiency/auxiliary energy factor for part load at indoor<br>efficiency/auxiliary energy factor for part load at given<br>outdoor temperatures Tjefficiency/auxiliary energy factor for part load at given<br>outdoor temperatures TjTj=-7°CCOPd2.68Tj=+2°CCOPd2.68Tj=+2°CCOPd4.611Tj=+2°CCOPd6.11Tj=+7°CCOPd6.11Tj=+7°CCOPd6.11Tj=+12°CCOPd6.11Tj=+12°CCOPd6.11Tj=+12°CCOPd2.26Tj=+12°CCOPd2.26Tou=operationPdh13.70kWTou=operation temperatureCOPd2.26Tou=operationPdh13.70kWTou=operation temperatureCOPd2.26Tou=operation temperatureCOPd2.26Tou=operation temperatureCOPd2.26Tou=operation temperatureCOPd2.26PowerComdeSupplementary heaterCoff doe                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Rated heating capacity     | Prated,h    | 25.20         | kW             |                                        | Ŋs,h         | 170.2       | %    |  |
| Tip=2°C       Pdh       7.38       KW       Tip=+2°C       COPd       4.17          Tip=+7°C       Pdh       5.57       KW       Tip=+7°C       COPd       6.11          Tip=+12°C       Pdh       6.24       KW       Tip=+12°C       COPd       6.11          Tip=+12°C       Pdh       6.24       KW       Tip=+12°C       COPd       7.65          Tbw=bivalent<br>temperature       Pdh       13.70       KW       ToL =operation temperature       COPd       2.26          Bivalent temperature       Tbiv       -10       °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                            |             |               |                | efficiency/auxiliary energy            | factor for p | part load a |      |  |
| T =+7°CPah5.57KWT =+7°CCOPa6.11T =+12°CPah6.24KWT =+12°CCOPa7.65T =+12°CPah13.70KWT =+12°CCOPa2.26Tox=operation<br>temperaturePah13.70KWTox = operation temperatureCOPa2.26Bivalent temperaturePah13.70KWTox = operation temperatureCOPa2.26Bivalent temperaturePah13.70KWTox = operation temperatureCOPa2.26Bivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25Power consumption in modes other than "active mode"Supplementary heaterOff modePOFF0.005KWBack-up heating capacity(*)elbu0kWThermosat-off modePro0.005kWStandby modePs80.005kWCapacity controlvariableVariableFor air-to-air heat pump: air<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Tj=-7°C                    | Pdh         | 12.12         | kW             | Tj=-7°C                                | COPd         | 2.68        |      |  |
| Tj=+12°CPdh6.24KWTj=+12°CCOPd7.65Toh=bivalent<br>temperaturePdh13.70KWTbiv =bivalent temperatureCOPd2.26ToL=operation<br>temperaturePdh13.70KWToL =operation temperatureCOPd2.26Bivalent temperatureTbiv-10°CBivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25Power consumption in modes other than "active mode"Supplementary heaterOff modePOFF0.005KWBack-up heating capacity(*)elbu0KWThermosat-off modePTO0.005KWStandby modePss0.005kWCanakcase heater modePCK0.005KWStandby modePss0.005kWCapacity controlvariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³/Sound power<br>level,outdoorLWA83dB12600m³/GWP of the refrigerant2088kg CO2 eq<br>(100 years)                                                                                                                                                                                                                                                                                                                                                                                                                | Tj=+2°C                    | Pdh         | 7.38          | kW             | Tj=+2°C                                | COPd         | 4.17        |      |  |
| Tow=bivalent<br>temperaturePdh13.70KWTow=bivalent temperatureCOPd2.26ToL=operation<br>temperaturePdh13.70KWToL=operation temperatureCOPd2.26Bivalent temperatureTbiv-10°CBivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdn0.25Power consumption in modes other than "active mode"Supplementary heaterOff mode0KWBack-up heating capacity(*)elbu0KWThermosat-off modePOFF0.005KWStandby modePss0.005KWCrankcase heater modePCK0.005KWStandby modePss0.005KWCapacity controlvariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³/Sound power<br>level,outdoorLwA83dB12600m³/GWP of the refrigerant2088kg CO2 eq<br>(100years)12600m³/Contact detailsKg CO2 eq<br>(100years)12600m³/                                                                                                                                                                                                                                                                                                                                                                                                      | Tj=+7°C                    | Pdh         | 5.57          | kW             | Tj=+7°C                                | COPd         | 6.11        |      |  |
| temperaturePdh13.70KWThis Polvatent temperatureCOPd2.26ToL=operation<br>temperaturePdh13.70KWToL=operation temperatureCOPd2.26Bivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25Power consumption in modes other than "active mode"Supplementary heater0KWBack-up heating capacity(*)elbu0KWThermosat-off modePOFF0.005KWBack-up heating capacity(*)elbu0KWThermosat-off modePTO0.005KWStandby modePSB0.005KWCapacity controlVariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³/Sound power<br>level,outdoorLwA83dB12600m³/GWP of the refrigerant2088kg CO2 eq<br>(100years)12600m³/Contact details(*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Tj=+12°C                   | Pdh         | 6.24          | kW             | Tj=+12°C                               | COPd         | 7.65        |      |  |
| temperaturePdh13.70KWI OL =operation temperatureCOPd2.26Bivalent temperatureTbiv-10°C $^{\circ}$ C $^{\circ}$ C $^{\circ}$ C $^{\circ}$ C $^{\circ}$ CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25 $^{\circ}$ C $^{\circ}$ C $^{\circ}$ CPower consumption in modes other than "active mode"Supplementary heaterOff modePOFF0.005KWBack-up heating capacity(*)elbu0KWThermosat-off modePTO0.005KWStandby modePsB0.005kWCrankcase heater modePCK0.005KWStandby modePsB0.005kWCapacity controlvariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³/Sound power<br>level,outdoorLwA83dB12600m³/GWP of the refrigerant2088kg CO2 eq<br>(100years) </td <td></td> <td>Pdh</td> <td>13.70</td> <td>kW</td> <td>T<sub>biv</sub> =bivalent temperature</td> <td>COPd</td> <td>2.26</td> <td></td>                                                                                                                                                                                                                                                                                                                  |                            | Pdh         | 13.70         | kW             | T <sub>biv</sub> =bivalent temperature | COPd         | 2.26        |      |  |
| Degradation coefficient for heat pumps(**)     Cdh     0.25      Supplementary heater       Power consumption in modes other than "active mode"     Supplementary heater     0     kW       Off mode     POFF     0.005     kW     Back-up heating capacity(*)     elbu     0     kW       Thermosat-off mode     PTO     0.005     kW     Type of energy input       Crankcase heater mode     PSB     0.005     kW     Standby mode     PsB     0.005     kW       Capacity control     Variable     For air-to-air heat pump: air flow rate, outdoor measured      12600     m³/       Sound power     LwA     83     dB      12600     m³/       GWP of the refrigerant     2088     kg CO2 eq (100years)       12600     m³/       Contact details        12600     m³/                                                                                                                                                                                                                                                                                                                                                                 |                            | Pdh         | 13.70         | kW             | To∟ =operation temperature             | COPd         | 2.26        |      |  |
| coefficient for heat pumps(**)     Cdh     0.25      Supplementary heater       Power consumption in modes other than "active mode"     Supplementary heater     0     kW       Off mode     POFF     0.005     kW     Back-up heating capacity(*)     elbu     0     kW       Thermosat-off mode     PTO     0.005     kW     Type of energy input       Crankcase heater mode     PCK     0.005     kW     Standby mode     PSB     0.005     kW       Crankcase heater mode     PCK     0.005     KW     Standby mode     PSB     0.005     kW       Other items       Capacity control     variable     For air-to-air heat pump: air flow rate, outdoor measured      12600     m³/       Sound power     LwA     83     dB       12600     m³/       GWP of the refrigerant     2088     kg CO2 eq (100 years)       12600     m³/       Contact details       12600                                                                                                                                                                                                                                                                   | Bivalent temperature       | Tbiv        | -10           | °C             |                                        |              |             |      |  |
| Off mode     POFF     0.005     kW     Back-up heating capacity(*)     elbu     0     kW       Thermosat-off mode     PTO     0.005     kW     Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | coefficient for            | Cdh         | 0.25          |                |                                        |              |             |      |  |
| Thermosat-off mode     PTO     0.005     kW     Type of energy input       Crankcase heater mode     PCK     0.005     kW     Standby mode     PsB     0.005     kW       Other items       Capacity control     variable     For air-to-air heat pump: air flow rate, outdoor measured      12600     m³/       Sound power level,outdoor     LWA     83     dB       12600     m³/       GWP of the refrigerant     2088     kg CO2 eq (100 years) <td>Power consumption in</td> <td>modes othe</td> <td>r than "activ</td> <td>e mode"</td> <td></td> <td>ntary heate</td> <td>er</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Power consumption in       | modes othe  | r than "activ | e mode"        |                                        | ntary heate  | er          |      |  |
| Crankcase heater mode   Рск   0.005   kW   Standby mode   Psв   0.005   kW     Other items     Capacity control   variable   For air-to-air heat pump: air flow rate, outdoor measured    12600   m³/     Sound power level,outdoor   LwA   83   dB    12600   m³/     GWP of the refrigerant   2088   kg CO2 eq (100 years)         Contact details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Off mode                   | Poff        | 0.005         | kW             | Back-up heating capacity(*)            | elbu         | 0           | kW   |  |
| Other items     Capacity control   variable   For air-to-air heat pump: air flow rate, outdoor measured    12600   m³/     Sound power level,outdoor   Lwa   83   dB    12600   m³/     GWP of the refrigerant   2088   kg CO2 eq (100 years)         Contact details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Thermosat-off mode         | Рто         | 0.005         | kW             | Type of energy input                   |              |             |      |  |
| Capacity control     variable     For air-to-air heat pump: air flow rate, outdoor measured      12600     m³/       Sound power level,outdoor     Lwa     83     dB      12600     m³/       GWP of the refrigerant     2088     kg CO2 eq (100 years)        12600     m³/       Contact details                12600     m³/                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Crankcase heater mode      | Рск         | 0.005         | kW             | Standby mode                           | Psb          | 0.005       | kW   |  |
| Capacity control   Variable   flow rate, outdoor measured    12600   III//     Sound power<br>level,outdoor   Lwa   83   dB    12600   III//     GWP of the refrigerant   2088   kg CO2 eq<br>(100years)         Contact details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |                            |             |               | Other          | ritems                                 |              |             |      |  |
| Ievel,outdoor   LWA   83   dB     GWP of the refrigerant   2088   kg CO2 eq<br>(100years)      Contact details     (*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | Capacity control           |             | variable      |                |                                        |              | 12600       | m³/h |  |
| GWP of the refrigerant   2088   (100years)     Contact details     (*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                            | Lwa         | 83            | dB             |                                        |              |             |      |  |
| (*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GWP of the refrigerant     |             | 2088          |                |                                        |              |             |      |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Contact details            |             |               |                |                                        |              |             |      |  |
| (**)If Cdb is not determined by measurement, then the default degradation coefficient of heat numps shall be 0.25                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | (*)                        |             |               |                |                                        |              |             |      |  |
| ( ) in our lot determined by medeurement, then the default degradation beendert of heat pumps shar be 0.20.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | (**)If Cdh is not determin | ned by meas | surement, th  | en the default | degradation coefficient of heat p      | umps shall   | be 0.25.    |      |  |

Cooling mode:

### Information requirements for air-to-air conditioners

Model(s): MV8-280WV2RN1E(ECO)

Test matching indoor units form, cassette: 3×MIH71Q4N18(Q)+1×MIH80Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

Driver of compressor: electric motor Item Symbol Value Unit Item Symbol Value Unit Seasonal space cooling 28.00 kW 287.0 % Rated cooling capacity Prated,c ηs,c energy efficiency Declared energy efficiency ratio or gas utilisation efficiency Declared cooling capacity for part load at given outdoor /auxiliary energy factor for part load at given outdoor temperatures Tj and indoor 27/19°C (dry/wet bulb) temperatures Tj Tj=+35°C 28.00 kW Tj=+35°C EERd 3.20 Pdc ---Tj=+30°C Pdc 20.63 kW Tj=+30°C EERd 4.81 ---Pdc Tj=+25°C 13.26 kW Tj=+25°C EERd 8.15 ---Tj=+20°C Pdc 7.97 kW Tj=+20°C EERd 17.03 ---Degradation coefficient for air 0.25 Cdc \_\_\_ conditioners(\*) Power consumption in modes other than "active mode" Off mode POFF 0.005 kW Crankcase heater mode Рск 0.005 kW Thermosat-off mode kW Standby mode kW Рто 0.005 Psb 0.005 Other items For air-to-air air conditioner: Capacity control variable air flow rate, outdoor \_\_\_ 12600 m³/h measured Sound power Lwa 84 dB level, outdoor kg CO<sub>2</sub> eq GWP of the refrigerant 2088 (100years)

Contact details

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-280WV2RN1E(ECO) Test matching indoor units form, cassette: 3×MIH71Q4N18(Q)+1×MIH80Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Rated heating capacity     Prated,h     28.00     KW     Seasonal space heating energy efficiency     n,h     167.8     %       Declared heating capacity for part load at indoor teperature 20°C and outdoor temperatures Tj     Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at gives outdoor temperatures Tj     Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at gives outdoor temperatures Tj       Tj=-7°C     Pdh     14.15     KW     Tj=-7°C     COPd     2.50        Tj=+2°C     Pdh     8.62     kW     Tj=+2°C     COPd     4.07        Tj=+7°C     Pdh     5.77     KW     Tj=+7°C     COPd     6.18        Tot=operation     Pdh     16.00     kW     Tot=operation temperature     COPd     2.10        Diverbivalent     Pdh     16.00     kW     Tot=operation temperature     COPd     2.10        Degradation coefficient for heat pumps(**)     Cdh     0.25           Degradation coefficient for heat pumps(**)     Cdh     0.25 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> |                                   |             |              |                                       |                                 |                                                     |            |      |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------|-------------|--------------|---------------------------------------|---------------------------------|-----------------------------------------------------|------------|------|--|--|
| Nation locating capacityPrime(), 120.00KWenergy efficiency19.1107.0ADeclared heating capacity for part load at indoor<br>teperature 20°C and outdoor temperatures TjDeclared coefficiency/auxiliary energy factor for part load at gived<br>outdoor temperatures TjTj=-7°CPdh14.15KWTj=-7°CCOPd2.50Tj=+2°CPdh8.62KWTj=+7°CCOPd4.07Tj=+7°CPdh5.77KWTj=+7°CCOPd4.07Tj=+12°CPdh6.45KWTj=+12°CCOPd6.18Tot-operation<br>temperaturePdh16.00KWTbiv=bivalent temperatureCOPd2.10Tot-operation<br>temperaturePdh16.00KWTot eoperation temperatureCOPd2.10Bivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25Power consumption in modes other than "active mode"Supplementary heaterOff modePOrF0.005KWBack-up heating capacity(*)elbu0kWThermosat-off modePCK0.005KWStandby modePss0.005kWCapacity controlVariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³Sound power<br>level,outdoorLwA84dB <t< td=""><td>Item</td><td>Symbol</td><td>Value</td><td>Unit</td><td>Item</td><td>Symbol</td><td>Value</td><td>Unit</td></t<>                                                                             | Item                              | Symbol      | Value        | Unit                                  | Item                            | Symbol                                              | Value      | Unit |  |  |
| Declared heating capacity for part load at indoor<br>teperature 20°C and outdoor temperatures Tjefficiency/auxiliary energy factor for part load at gives<br>outdoor temperatures TjTj=-7°CPdh14.15KWTj=-7°CCOPd2.50Tj=+2°CPdh8.62KWTj=+7°CCOPd4.07Tj=+12°CPdh5.77KWTj=+7°CCOPd6.18Tj=+12°CPdh6.45kWTj=+12°CCOPd2.10Tow=bivalent<br>temperaturePdh16.00KWTow =bivalent temperatureCOPd2.10Tou=operation<br>temperaturePdh16.00KWToL =operation temperatureCOPd2.10Degradation<br>coefficient for<br>heat pumps(**)Pdh16.00kWBack-up heating capacity(*)elbu0kVDegradation<br>coefficient for<br>heat pumps(**)O.005kWBack-up heating capacity(*)elbu0kVOff modePOFF0.005kWStandby modePSB0.005kVCrankcase heater modePCK0.005kWStandby modePSB0.005kVCapacity controlvariableStandby madePSB0.005kVOther itemsGWP of the refrigerant2088kg CO2 eq<br>(100years)for air-to-air heat pump: air<br>flow rate, outdoor measuredContact detailsContact detailsKg CO2 eq<br>(100years)Contact detailsCOPA12600<                                                                                                                                                   | Rated heating capacity            | Prated,h    | 28.00        | kW                                    |                                 | <b>η</b> s,h                                        | 167.8      | %    |  |  |
| T =+2°CPdh8.62KWT =+2°CCOPd4.07T =+7°CPdh5.77KWT =+7°CCOPd6.18T =+12°CPdh6.45KWT =+12°CCOPd7.73T =+12°CPdh16.00KWT =+12°CCOPd2.10T = to=operationPdh16.00KWToL = operation temperatureCOPd2.10N = operation temperaturePdh16.00KWToL = operation temperatureCOPd2.10Bivalent temperatureTbiv-10°CDegradation coefficient for heat pumps(**)Cdh0.25Supplementary heaterOff modePOFF0.005KWBack-up heating capacity(*)elbu0kVThermosat-off modePro0.005kWStandby modePss0.005kVCapacity controlvariableFor air-to-air heat pump: air flow rate, outdoor measured12600m³Sound powerLwA84dB12600m³Ievel,outdoorLwA84dB12600m³Contact details(*)12600m³                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                   |             |              |                                       | efficiency/auxiliary energy     | efficiency/auxiliary energy factor for part load at |            |      |  |  |
| Tj=+7°C       Pdh       5.77       KW       Tj=+7°C       COPd       6.18          Tj=+12°C       Pdh       6.45       KW       Tj=+12°C       COPd       7.73          Tbw=bivalent<br>temperature       Pdh       16.00       KW       Tbiv = bivalent temperature       COPd       2.10          ToL=operation<br>temperature       Pdh       16.00       KW       ToL = operation temperature       COPd       2.10          Bivalent temperature       Tbiv       -10       °C </td <td>Tj=-7°C</td> <td>Pdh</td> <td>14.15</td> <td>kW</td> <td>Tj=-7°C</td> <td>COPd</td> <td>2.50</td> <td></td>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Tj=-7°C                           | Pdh         | 14.15        | kW                                    | Tj=-7°C                         | COPd                                                | 2.50       |      |  |  |
| Tj=+12°CPdh6.45kWTj=+12°CCOPd7.73Tow=bivalent<br>temperaturePdh16.00kWTbiv =bivalent temperatureCOPd2.10ToL=operation<br>temperaturePdh16.00kWToL =operation temperatureCOPd2.10Bivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25Power consumption in modes other than "active mode"Supplementary heaterOff modePorF0.005kWBack-up heating capacity(*)elbu0kVThermosat-off modePro0.005kWStandby modePss0.005kVOther itemsCapacity controlvariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³Sound power<br>level,outdoorLwA84dB12600m³GWP of the refrigerant2088kg CO2 eq<br>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Tj=+2°C                           | Pdh         | 8.62         | kW                                    | Tj=+2°C                         | COPd                                                | 4.07       |      |  |  |
| Tow=bivalent<br>temperaturePdh16.00KWTow=bivalent temperature $COP_d$ 2.10ToL=operation<br>temperaturePdh16.00kWToL=operation temperature $COP_d$ 2.10Bivalent temperatureTbiv-10°CBivalent temperatureTbiv-10°CDegradation<br>coefficient for<br>heat pumps(**)Cdh0.25Power consumption in modes other than "active mode"Supplementary heaterOff modePOFF0.005kWBack-up heating capacity(*)elbu0kVThermosat-off modePTO0.005kWStandby modePss0.005kVOther itemsCapacity controlvariableFor air-to-air heat pump: air<br>flow rate, outdoor measured12600m³Sound power<br>level,outdoorLwA84dBGWP of the refrigerant2088kg CO2 eq<br>(100years)Contact details(*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Tj=+7°C                           | Pdh         | 5.77         | kW                                    | Tj=+7°C                         | COPd                                                | 6.18       |      |  |  |
| temperaturePdh16.00KWTot =operation temperatureCOPd2.10Tot=operation<br>temperaturePdh16.00kWTot =operation temperatureCOPd2.10Bivalent temperatureTbiv-10°C $^{\circ}$ C $^{\circ}$ C $^{\circ}$ C $^{\circ}$ C $^{\circ}$ CDegradation<br>coefficient for<br>heat pumps(**)Cdh $0.25$ $^{}$ $^{\circ}$ C $^{\circ}$ CPower consumption in modes other than "active mode"Supplementary heaterOff modePOFF $0.005$ KWBack-up heating capacity(*)elbu0kVThermosat-off modePTO $0.005$ KWStandby modePSB $0.005$ kVCrankcase heater modePCK $0.005$ KWStandby modePSB $0.005$ kVOther itemsCapacity controlVariableFor air-to-air heat pump: air<br>flow rate, outdoor measured $^{}$ $12600$ m³Sound power<br>level,outdoorLwA84dB $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ GWP of the refrigerant2088kg CO2 eq<br>(100years) $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ Contact details $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$ $^{\circ}$                                                                                                                                                                         | Tj=+12°C                          | Pdh         | 6.45         | kW                                    | Tj=+12°C                        | COPd                                                | 7.73       |      |  |  |
| temperature     Pdh     16.00     KVV     ToL =operation temperature     COPd     2.10        Bivalent temperature     Tbiv     -10     °C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   | Pdh         | 16.00        | kW                                    | Tbiv =bivalent temperature      | COPd                                                | 2.10       |      |  |  |
| Degradation coefficient for heat pumps(**)     Cdh     0.25      Supplementary heater       Power consumption in modes other than "active mode"     Supplementary heater     0     kV       Off mode     POFF     0.005     kW     Back-up heating capacity(*)     elbu     0     kV       Thermosat-off mode     PTO     0.005     kW     Type of energy input       Crankcase heater mode     PSB     0.005     kV       Crankcase heater mode     PCK     0.005     kW     Standby mode     PSB     0.005     kV       Capacity control     variable     For air-to-air heat pump: air flow rate, outdoor measured      12600     m³       Sound power     LwA     84     dB      12600     m³       GWP of the refrigerant     2088     kg CO2 eq (100 years)      12600     m³       Contact details          12600     m³                                                                                                                                                                                                                                                                                                                             |                                   | Pdh         | 16.00        | kW                                    | ToL =operation temperature      | COPd                                                | 2.10       |      |  |  |
| coefficient for heat pumps(**)     C dh     0.25      Supplementary heater       Power consumption in modes other than "active mode"     Supplementary heater     0     kV       Off mode     POFF     0.005     kW     Back-up heating capacity(*)     elbu     0     kV       Thermosat-off mode     PTO     0.005     kW     Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Bivalent temperature              | Tbiv        | -10          | °C                                    |                                 |                                                     |            |      |  |  |
| Off mode     POFF     0.005     kW     Back-up heating capacity(*)     elbu     0     kV       Thermosat-off mode     PTO     0.005     kW     Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | coefficient for<br>heat pumps(**) | -           |              |                                       | Quarter                         |                                                     |            |      |  |  |
| Thermosat-off mode   PTO   0.005   KW   Type of energy input     Crankcase heater mode   PCK   0.005   KW   Standby mode   PSB   0.005   kV     Other items     Capacity control   variable   For air-to-air heat pump: air flow rate, outdoor measured    12600   m³,                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |                                   |             |              | · · · · · · · · · · · · · · · · · · · |                                 | 1                                                   |            |      |  |  |
| Crankcase heater mode   Рск   0.005   kW   Standby mode   Psb   0.005   kV     Other items     Capacity control   variable   For air-to-air heat pump: air flow rate, outdoor measured    12600   m³/     Sound power level,outdoor   LwA   84   dB    12600   m³/     GWP of the refrigerant   2088   kg CO2 eq (100 years)         Contact details                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                   |             |              |                                       | 1 8 1 3()                       | elbu                                                | 0          | KVV  |  |  |
| Other items     Capacity control   variable     Sound power   Lwa     level,outdoor   Lwa     84   dB     GWP of the refrigerant   2088     kg CO2 eq<br>(100years)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                   | -           |              |                                       |                                 | Dep                                                 | 0.005      |      |  |  |
| Capacity control     variable     For air-to-air heat pump: air flow rate, outdoor measured      12600     m³.       Sound power level,outdoor     Lwa     84     dB      12600     m³.       GWP of the refrigerant     2088     kg CO2 eq (100 years)        12600     m³.       Contact details          12600     m³.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Crankcase neater mode             | РСК         | 0.005        |                                       | ,                               | PSB                                                 | 0.005      | KVV  |  |  |
| Capacity control   Variable   flow rate, outdoor measured    12000   III-1     Sound power<br>level,outdoor   Lwa   84   dB    12000   III-1     GWP of the refrigerant   2088   kg CO2 eq<br>(100years)     12000   III-1     Contact details      12000     12000   III-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                   |             |              | Othe                                  | r items                         |                                                     | 1          |      |  |  |
| level,outdoor   LWA   84   dB     GWP of the refrigerant   2088   kg CO2 eq<br>(100years)      Contact details   *   *                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Capacity control                  |             | variable     |                                       |                                 |                                                     | 12600      | m³/h |  |  |
| GWP of the refrigerant   2088   (100years)     Contact details     (*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                   | Lwa         | 84           | dB                                    |                                 |                                                     |            |      |  |  |
| *)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | GWP of the refrigerant            |             | 2088         |                                       |                                 |                                                     |            |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Contact details                   |             |              |                                       |                                 |                                                     |            |      |  |  |
| (**)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | (*)                               |             |              |                                       |                                 |                                                     |            |      |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | (**)If Cdh is not determir        | ned by meas | surement, th | en the default                        | degradation coefficient of heat | pumps shall                                         | l be 0.25. |      |  |  |

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Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | S     | for air-to-air cond                                                    | litione    | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8-335WV2                                  |               |               |                                     |       |                                                                        |            |          |      |
| Test matching indoor ur                               |               |               | -                                   | Q)+   | 3×MIH71Q4N18(Q)                                                        |            |          |      |
| Outdoor side heat exch                                | -             |               |                                     |       |                                                                        |            |          |      |
| Indoor side heat exchar                               | nger of air c | onditioner: a | ir                                  |       |                                                                        |            |          |      |
| Type: compressor drive                                | n             |               |                                     |       |                                                                        |            |          |      |
| Driver of compressor: e                               | lectric moto  | r             |                                     |       |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 33.50         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | ηs,c       | 284.6    | %    |
| Declared cooling cap<br>temperatures Tj an            |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 33.50         | kW                                  |       | Tj=+35°C                                                               | EERd       | 2.88     |      |
| Tj=+30°C                                              | Pdc           | 24.68         | kW                                  |       | Tj=+30°C                                                               | EERd       | 4.84     |      |
| Tj=+25°C                                              | Pdc           | 15.87         | kW                                  |       | Tj=+25°C                                                               | EERd       | 8.24     |      |
| Tj=+20°C                                              | Pdc           | 8.87          | kW                                  |       | Tj=+20°C                                                               | EERd       | 16.68    |      |
|                                                       |               |               |                                     |       |                                                                        |            |          |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |            |          |      |
|                                                       |               | Power consu   | imption in mo                       | odes  | s other than "active mode"                                             |            |          |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               | •             | Oth                                 | er it | ems                                                                    | •          |          |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 13500    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 85            | dB                                  |       |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |            |          |      |
| Contact details                                       |               |               |                                     |       |                                                                        |            |          |      |
| (*)If Cdc is not determin                             | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-335WV2RN1E(ECO)

Test matching indoor units form, cassette: 3×MIH45Q4N18(Q)+3×MIH71Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| ltem                                             | Symbol      |              |                                     |                                                                          |              |             |      |
|--------------------------------------------------|-------------|--------------|-------------------------------------|--------------------------------------------------------------------------|--------------|-------------|------|
|                                                  | Symbol      | Value        | Unit                                | Item                                                                     | Symbol       | Value       | Unit |
| Rated heating capacity                           | Prated,h    | 33.50        | kW                                  | Seasonal space heating<br>energy efficiency                              | <b>η</b> s,h | 168.6       | %    |
| Declared heating<br>teperature 20°C              |             |              |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load a |      |
| Tj=-7°C                                          | Pdh         | 16.28        | kW                                  | Tj=-7°C                                                                  | COPd         | 2.50        |      |
| Tj=+2°C                                          | Pdh         | 9.91         | kW                                  | Tj=+2°C                                                                  | COPd         | 3.97        |      |
| Tj=+7°C                                          | Pdh         | 6.37         | kW                                  | Tj=+7°C                                                                  | COPd         | 6.50        |      |
| Tj=+12°C                                         | Pdh         | 6.44         | kW                                  | Tj=+12°C                                                                 | COPd         | 8.30        |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 18.40        | kW                                  | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 2.18        |      |
| To∟=operation<br>temperature                     | Pdh         | 18.40        | kW                                  | ToL =operation temperature                                               | COPd         | 2.18        |      |
| Bivalent temperature                             | Tbiv        | -10          | °C                                  |                                                                          |              |             |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25         |                                     |                                                                          |              |             |      |
| Power consumption in r                           | nodes othei | than "active | e mode"                             | Suppleme                                                                 | ntary heate  | er          |      |
| Off mode                                         | Poff        | 0.005        | kW                                  | Back-up heating capacity(*)                                              | elbu         | 0           | kW   |
| Thermosat-off mode                               | Рто         | 0.005        | kW                                  | Type of energy input                                                     |              |             |      |
| Crankcase heater mode                            | Рск         | 0.005        | kW                                  | Standby mode                                                             | Рsв          | 0.005       | kW   |
|                                                  |             |              | Othe                                | r items                                                                  |              |             |      |
| Capacity control                                 |             | variable     |                                     | For air-to-air heat pump: air flow rate, outdoor measured                |              | 13500       | m³/h |
| Sound power<br>level,outdoor                     | Lwa         | 85           | dB                                  |                                                                          |              |             |      |
| GWP of the refrigerant                           |             | 2088         | kg CO <sub>2 eq</sub><br>(100years) |                                                                          |              |             |      |
| Contact details                                  |             |              |                                     |                                                                          |              |             |      |
| *)                                               |             |              |                                     |                                                                          |              |             |      |
| **)If Cdh is not determin                        | ied by meas | urement, th  | en the default                      | degradation coefficient of heat p                                        | umps shall   | be 0.25.    |      |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | s 1   | for air-to-air cond                                                    | itione | rs    |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|--------|-------|------|
| Model(s): MV8-400WV2<br>Test matching indoor u        |               |               | IH45Q4N18(C                         | Q)+4  | 4×MIH80Q4N18(Q)                                                        |        |       |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | : air                               |       |                                                                        |        |       |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | air                                 |       |                                                                        |        |       |      |
| Type: compressor drive                                | en            |               |                                     |       |                                                                        |        |       |      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |        |       |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 40.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | Ŋs,c   | 288.2 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc           | 40.00         | kW                                  |       | Tj=+35°C                                                               | EERd   | 2.85  |      |
| Tj=+30°C                                              | Pdc           | 29.47         | kW                                  |       | Tj=+30°C                                                               | EERd   | 4.78  |      |
| Tj=+25°C                                              | Pdc           | 18.95         | kW                                  |       | Tj=+25°C                                                               | EERd   | 8.25  |      |
| Tj=+20°C                                              | Pdc           | 8.42          | kW                                  |       | Tj=+20°C                                                               | EERd   | 17.63 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |        |       |      |
|                                                       | l             | Power consi   | umption in mo                       | des   | other than "active mode"                                               |        |       |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |               |               | Othe                                | er it | ems                                                                    |        |       |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 15600 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 86            | dB                                  |       |                                                                        |        |       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |        |       |      |
| Contact details                                       |               |               | ·                                   |       |                                                                        |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

| Test matching indoor u                           |               |                | ,                                   | 2)+4×MIH80Q4N18(Q)                                                        |              |              |         |
|--------------------------------------------------|---------------|----------------|-------------------------------------|---------------------------------------------------------------------------|--------------|--------------|---------|
| Outdoor side heat exch                           | 0             |                |                                     |                                                                           |              |              |         |
| Indoor side heat exchar                          | •             |                |                                     |                                                                           |              |              |         |
| If the heater is equipped                        |               |                | heater: no                          |                                                                           |              |              |         |
| Driver of compressor: e                          |               |                |                                     |                                                                           |              |              |         |
| Parameters shall be de optional.                 | clared for th | e average h    | eating season                       | , parameters for the warmer and                                           | colder hea   | ating seaso  | ons are |
| Item                                             | Symbol        | Value          | Unit                                | Item                                                                      | Symbol       | Value        | Unit    |
| Rated heating capacity                           | Prated,h      | 40.00          | kW                                  | Seasonal space heating<br>energy efficiency                               | Ŋs,h         | 171.8        | %       |
| Declared heating<br>teperature 20°C              |               |                |                                     | Declared coefficient of per<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load at |         |
| Tj=-7°C                                          | Pdh           | 19.46          | kW                                  | Tj=-7°C                                                                   | COPd         | 2.58         |         |
| Tj=+2°C                                          | Pdh           | 11.85          | kW                                  | Tj=+2°C                                                                   | COPd         | 4.11         |         |
| Tj=+7°C                                          | Pdh           | 7.62           | kW                                  | Tj=+7°C                                                                   | COPd         | 6.43         |         |
| Tj=+12°C                                         | Pdh           | 7.79           | kW                                  | Tj=+12°C                                                                  | COPd         | 8.16         |         |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh           | 22.00          | kW                                  | T <sub>biv</sub> =bivalent temperature                                    | COPd         | 2.16         |         |
| To∟=operation<br>temperature                     | Pdh           | 22.00          | kW                                  | To∟ =operation temperature                                                | COPd         | 2.16         |         |
| Bivalent temperature                             | Tbiv          | -10            | °C                                  |                                                                           |              |              |         |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh           | 0.25           |                                     |                                                                           |              |              |         |
| Power consumption in r                           | nodes othe    | r than "active | e mode"                             | Supplemer                                                                 | ntary heate  | er           |         |
| Off mode                                         | Poff          | 0.005          | kW                                  | Back-up heating capacity(*)                                               | elbu         | 0            | kW      |
| Thermosat-off mode                               | Рто           | 0.005          | kW                                  | Type of energy input                                                      |              |              |         |
| Crankcase heater mode                            | Рск           | 0.005          | kW                                  | Standby mode                                                              | Рsв          | 0.005        | kW      |
|                                                  |               |                | Othe                                | r items                                                                   |              |              |         |
| Capacity control                                 |               | variable       |                                     | For air-to-air heat pump: air flow rate, outdoor measured                 |              | 15600        | m³/h    |
| Sound power<br>level,outdoor                     | Lwa           | 86             | dB                                  |                                                                           |              |              |         |
| GWP of the refrigerant                           |               | 2088           | kg CO <sub>2 eq</sub><br>(100years) |                                                                           |              |              |         |
| Contact details                                  |               |                |                                     |                                                                           |              |              |         |
| (*)                                              |               |                |                                     |                                                                           |              |              |         |
| **)If Cdh is not determin                        | ed by meas    | surement, th   | en the default                      | degradation coefficient of heat pu                                        | umps shall   | be 0.25.     |         |

Cooling mode:

| Information requiremen | ts for air-to-air conditioners |
|------------------------|--------------------------------|
|------------------------|--------------------------------|

Model(s): MV8-450WV2RN1E(ECO) Test matching indoor units form, cassette: 1×MIH71Q4N18(Q)+5×MIH80Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

| .)per compresser ante                                 | <u> </u>    |             |                                     |                                                                     |        |       |      |
|-------------------------------------------------------|-------------|-------------|-------------------------------------|---------------------------------------------------------------------|--------|-------|------|
| Driver of compressor: e                               | ectric moto | r           |                                     |                                                                     |        |       |      |
| Item                                                  | Symbol      | Value       | Unit                                | Item                                                                | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c    | 45.00       | kW                                  | Seasonal space cooling<br>energy efficiency                         | ηs,c   | 270.2 | %    |
| Declared cooling cap<br>temperatures Tj an            |             |             |                                     | Declared energy efficiency<br>/auxiliary energy factor<br>temp      |        |       |      |
| Tj=+35°C                                              | Pdc         | 45.00       | kW                                  | Tj=+35°C                                                            | EERd   | 2.45  |      |
| Tj=+30°C                                              | Pdc         | 33.16       | kW                                  | Tj=+30°C                                                            | EERd   | 4.38  |      |
| Tj=+25°C                                              | Pdc         | 21.32       | kW                                  | Tj=+25°C                                                            | EERd   | 7.93  |      |
| Tj=+20°C                                              | Pdc         | 9.47        | kW                                  | Tj=+20°C                                                            | EERd   | 17.87 |      |
|                                                       |             |             |                                     |                                                                     |        |       |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc         | 0.25        |                                     |                                                                     |        |       |      |
|                                                       | 1           | Power consu | umption in mo                       | des other than "active mode"                                        | 1      |       |      |
| Off mode                                              | POFF        | 0.005       | kW                                  | Crankcase heater mode                                               | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто         | 0.005       | kW                                  | Standby mode                                                        | Рѕв    | 0.005 | kW   |
|                                                       |             |             | Othe                                | er items                                                            |        |       |      |
| Capacity control                                      |             | variable    |                                     | For air-to-air air conditione<br>air flow rate, outdoor<br>measured | r:     | 15600 | m³/h |
| Sound power<br>level, outdoor                         | Lwa         | 86          | dB                                  |                                                                     |        |       |      |
| GWP of the refrigerant                                |             | 2088        | kg CO <sub>2 eq</sub><br>(100years) |                                                                     |        |       |      |
| Contact details                                       |             |             |                                     |                                                                     |        |       |      |
|                                                       |             |             |                                     |                                                                     |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-450WV2RN1E(ECO)

Test matching indoor units form, cassette: 1×MIH71Q4N18(Q)+5×MIH80Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| -                                                |            |              |                                     |        |                                                                                                                                     |              |         |      |  |
|--------------------------------------------------|------------|--------------|-------------------------------------|--------|-------------------------------------------------------------------------------------------------------------------------------------|--------------|---------|------|--|
| Item                                             | Symbol     | Value        | Unit                                |        | Item                                                                                                                                | Symbol       | Value   | Unit |  |
| Rated heating capacity                           | Prated,h   | 45.00        | kW                                  |        | Seasonal space heating<br>energy efficiency                                                                                         | <b>η</b> s,h | 167.8   | %    |  |
| Declared heating<br>teperature 20°C              |            |              |                                     |        | Declared coefficient of performance or gas utilis<br>efficiency/auxiliary energy factor for part load at<br>outdoor temperatures Tj |              |         |      |  |
| Tj=-7°C                                          | Pdh        | 21.89        | kW                                  |        | Tj=-7°C                                                                                                                             | COPd         | 2.47    |      |  |
| Tj=+2°C                                          | Pdh        | 13.33        | kW                                  |        | Tj=+2°C                                                                                                                             | COPd         | 4.00    |      |  |
| Tj=+7°C                                          | Pdh        | 8.57         | kW                                  |        | Tj=+7°C                                                                                                                             | COPd         | 6.36    |      |  |
| Tj=+12°C                                         | Pdh        | 8.01         | kW                                  |        | Tj=+12°C                                                                                                                            | COPd         | 8.18    |      |  |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh        | 24.75        | kW                                  |        | T <sub>biv</sub> =bivalent temperature                                                                                              | COPd         | 2.06    |      |  |
| ToL=operation<br>temperature                     | Pdh        | 24.75        | kW                                  |        | To∟ =operation temperature                                                                                                          | COPd         | 2.06    |      |  |
| Bivalent temperature                             | Tbiv       | -10          | °C                                  |        |                                                                                                                                     |              |         |      |  |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh        | 0.25         |                                     |        |                                                                                                                                     |              |         |      |  |
| Power consumption in r                           | nodes othe | than "active | e mode"                             |        | Suppleme                                                                                                                            | ntary heate  | er      |      |  |
| Off mode                                         | Poff       | 0.005        | kW                                  |        | Back-up heating capacity(*)                                                                                                         | elbu         | 0       | kW   |  |
| Thermosat-off mode                               | Рто        | 0.005        | kW                                  |        | Type of energy input                                                                                                                |              |         |      |  |
| Crankcase heater mode                            | Рск        | 0.005        | kW                                  |        | Standby mode                                                                                                                        | Psb          | 0.005   | kW   |  |
|                                                  |            |              | Othe                                | er ite | ems                                                                                                                                 |              |         |      |  |
| Capacity control                                 |            | variable     |                                     |        | For air-to-air heat pump: air flow rate, outdoor measured                                                                           |              | 15600   | m³/h |  |
| Sound power<br>level,outdoor                     | Lwa        | 86           | dB                                  |        |                                                                                                                                     |              |         |      |  |
| GWP of the refrigerant                           |            | 2088         | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                                                                                     |              |         |      |  |
| Contact details                                  |            |              |                                     |        |                                                                                                                                     |              |         |      |  |
| (*)                                              |            |              |                                     |        |                                                                                                                                     |              |         |      |  |
| (**)If Cdh is not determin                       | ed by meas | urement. th  | en the default                      | de     | gradation coefficient of heat n                                                                                                     | umps shall   | be 0.25 |      |  |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | S '     | for air-to-air cond                                                    | litione    | rs      |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|---------|------------------------------------------------------------------------|------------|---------|------|
| Model(s): MV8-500WV2<br>Test matching indoor u        |               |               | H45Q4N18(C                          | <br>)+( | 6×MIH71Q4N18(Q)                                                        |            |         |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |         |                                                                        |            |         |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | air                                 |         |                                                                        |            |         |      |
| Type: compressor drive                                | en            |               |                                     |         |                                                                        |            |         |      |
| Driver of compressor: e                               | electric moto | r             |                                     |         |                                                                        |            |         |      |
| Item                                                  | Symbol        | Value         | Unit                                |         | Item                                                                   | Symbol     | Value   | Unit |
| Rated cooling capacity                                | Prated,c      | 50.00         | kW                                  |         | Seasonal space cooling<br>energy efficiency                            | Ŋs,c       | 278.2   | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |         | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |         |      |
| Tj=+35°C                                              | Pdc           | 50.00         | kW                                  |         | Tj=+35°C                                                               | EERd       | 2.76    |      |
| Tj=+30°C                                              | Pdc           | 36.84         | kW                                  |         | Tj=+30°C                                                               | EERd       | 4.62    |      |
| Tj=+25°C                                              | Pdc           | 23.68         | kW                                  |         | Tj=+25°C                                                               | EERd       | 8.08    |      |
| Tj=+20°C                                              | Pdc           | 10.81         | kW                                  |         | Tj=+20°C                                                               | EERd       | 16.16   |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |         |                                                                        |            |         |      |
|                                                       |               | Power consu   | umption in mo                       | bdes    | s other than "active mode"                                             |            |         |      |
| Off mode                                              | POFF          | 0.005         | kW                                  |         | Crankcase heater mode                                                  | Рск        | 0.005   | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |         | Standby mode                                                           | Рѕв        | 0.005   | kW   |
|                                                       |               |               | Othe                                | er it   | iems                                                                   | •          |         |      |
| Capacity control                                      |               | variable      |                                     |         | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 22000   | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 88            | dB                                  |         |                                                                        | ·          | ·       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |         |                                                                        |            |         |      |
| Contact details                                       | ed by meas    | urement the   | on the default                      | de      | gradation coefficient of heat n                                        | umps shall | be 0.25 |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-500WV2RN1E(ECO)

Test matching indoor units form, cassette:2×MIH45Q4N18(Q)+6×MIH71Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Symbol     | Value                                                                                                                         | Unit                                                                                                                                                                                                                                                                                                                     | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Prated,h   | 50.00                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Seasonal space heating<br>energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | <b>η</b> s,h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 167.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |  |  |
|            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                          | efficiency/auxiliary energy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Declared coefficient of performance or gas utilisa<br>efficiency/auxiliary energy factor for part load at g<br>outdoor temperatures Tj                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Pdh        | 24.33                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Tj=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Pdh        | 14.81                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Tj=+2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 3.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Pdh        | 9.52                                                                                                                          | kW                                                                                                                                                                                                                                                                                                                       | Tj=+7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 6.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Pdh        | 6.27                                                                                                                          | kW                                                                                                                                                                                                                                                                                                                       | Tj=+12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 7.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Pdh        | 27.50                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | T <sub>biv</sub> =bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Pdh        | 27.50                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | ToL =operation temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 2.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Tbiv       | -10                                                                                                                           | °C                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Cdh        | 0.25                                                                                                                          |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| nodes othe | than "active                                                                                                                  | e mode"                                                                                                                                                                                                                                                                                                                  | Suppleme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | ntary heate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | er                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Poff       | 0.005                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Back-up heating capacity(*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | elbu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
| Рто        | 0.005                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| Рск        | 0.005                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Standby mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Psb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | 0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |  |  |
|            |                                                                                                                               | Other                                                                                                                                                                                                                                                                                                                    | tiems                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|            | variable                                                                                                                      |                                                                                                                                                                                                                                                                                                                          | For air-to-air heat pump: air flow rate, outdoor measured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | 22000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | m³/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Lwa        | 88                                                                                                                            | dB                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|            | 2088                                                                                                                          | kg CO <sub>2 eq</sub><br>(100years)                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
| ed by meas | urement, th                                                                                                                   | en the default                                                                                                                                                                                                                                                                                                           | degradation coefficient of heat p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | umps shall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | be 0.25.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |  |  |
|            | Prated,h<br>capacity fo<br>and outdoor<br>Pdh<br>Pdh<br>Pdh<br>Pdh<br>Pdh<br>Tbiv<br>Cdh<br>modes other<br>POFF<br>PTO<br>PCK | Prated,h   50.00     capacity for part load a     and outdoor temperatu     Pdh   24.33     Pdh   14.81     Pdh   9.52     Pdh   6.27     Pdh   27.50     Pdh   27.50     Pdh   27.50     Pdh   27.50     Cdh   0.25     modes other than "active     POFF   0.005     Рто   0.005     Рск   0.005     Рск   88     2088 | Prated,h       50.00       KW         capacity for part load at indoor<br>and outdoor temperatures Tj       kW         Pdh       24.33       kW         Pdh       24.33       kW         Pdh       14.81       kW         Pdh       9.52       kW         Pdh       6.27       kW         Pdh       27.50       kW         Pdh       0.25          Cdh       0.25          Modes other than "active mode"       POFF       0.005         PTO       0.005       kW       POFF         QCK       0.005       kW       POFF         Variable       X       A8       AB         LWA       88       AB       Imoge and the set of the set | Prated,h   50.00   kW   Seasonal space heating<br>energy efficiency     capacity for part load at indoor<br>and outdoor temperatures Tj   Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor tem     Pdh   24.33   kW   Tj=-7°C     Pdh   14.81   kW   Tj=+2°C     Pdh   9.52   kW   Tj=+7°C     Pdh   6.27   kW   Tj=+12°C     Pdh   6.27   kW   Tbiv = bivalent temperature     Pdh   27.50   kW   ToL = operation temperature     Pdh   27.50   kW   ToL = operation temperature     Pdh   0.25    Image: Suppleme     Cdh   0.25    Image: Suppleme     POFF   0.005   kW   Standby mode     Other items     Other items     Variable     LWA   88   dB     2088   kg CO2 eq<br>(100years)   For air-to-air heat pump: air<br>flow rate, outdoor measured | Prated,h   50.00   kW   Seasonal space heating<br>energy efficiency   ns.h     capacity for part load at indoor<br>and outdoor temperatures Tj   Declared coefficient of performance<br>efficiency/auxiliary energy factor for j<br>outdoor temperatures     Pdh   24.33   kW   Tj=-7°C   COPd     Pdh   14.81   kW   Tj=+2°C   COPd     Pdh   9.52   kW   Tj=+12°C   COPd     Pdh   6.27   kW   Tj=+12°C   COPd     Pdh   27.50   kW   Tj=+12°C   COPd     Pdh   27.50   kW   ToL =operation temperature   COPd     Pdh   27.50   kW   ToL =operation temperature   COPd     Tbiv   -10   °C        Cdh   0.25         modes other than "active mode"   Supplementary heate   Supplementary heate     POFF   0.005   kW   Standby mode   PsB     Other items     Cother items     All dB     All dB     All dB | Prated,h   50.00   kW   Seasonal space heating<br>energy efficiency   ns.h   167.0     capacity for part load at indoor<br>and outdoor temperatures Tj   Declared coefficient of performance or gas util<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj   Declared coefficient of performance or gas util<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj     Pdh   24.33   kW   Tj=-7°C   COPd   2.55     Pdh   14.81   kW   Tj=+2°C   COPd   3.89     Pdh   9.52   kW   Tj=+7°C   COPd   6.58     Pdh   6.27   kW   Tj=+12°C   COPd   7.30     Pdh   27.50   kW   ToL =operation temperature   COPd   2.13     Pdh   27.50   kW   ToL =operation temperature   COPd   2.13     Tbiv   -10   °C        Cdh   0.25    Supplementary heater     POFF   0.005   kW   Back-up heating capacity(*)   elbu   0     PTO   0.005   kW   Standby mode   Ps8   0.005     Other items   For air-to-air heat pump: air<br>flow rate, outdoor measured    22000 |  |  |

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Cooling mode:

| Info                                                  | ormatic                                                                                                     | on requ       | irement                             | s f    | for air-to-air cond                                                    | itione | rs    |      |
|-------------------------------------------------------|-------------------------------------------------------------------------------------------------------------|---------------|-------------------------------------|--------|------------------------------------------------------------------------|--------|-------|------|
| Model(s): MV8-560WV<br>Test matching indoor u         |                                                                                                             |               | IH71Q4N18(C                         | ג)     |                                                                        |        |       |      |
| Outdoor side heat exch                                | anger of air                                                                                                | conditioner   | air                                 |        |                                                                        |        |       |      |
| Indoor side heat excha                                | nger of air c                                                                                               | onditioner: a | air                                 |        |                                                                        |        |       |      |
| Type: compressor drive                                | n                                                                                                           |               |                                     |        |                                                                        |        |       |      |
| Driver of compressor: e                               | electric moto                                                                                               | r             |                                     |        |                                                                        |        |       |      |
| Item                                                  | Symbol                                                                                                      | Value         | Unit                                |        | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c                                                                                                    | 56.00         | kW                                  |        | Seasonal space cooling<br>energy efficiency                            | Ŋs,c   | 262.2 | %    |
|                                                       | Declared cooling capacity for part load at given outdo<br>temperatures Tj and indoor 27/19°C (dry/wet bulb) |               |                                     |        | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc                                                                                                         | 56.00         | kW                                  |        | Tj=+35°C                                                               | EERd   | 2.54  |      |
| Tj=+30°C                                              | Pdc                                                                                                         | 41.26         | kW                                  |        | Tj=+30°C                                                               | EERd   | 4.37  |      |
| Tj=+25°C                                              | Pdc                                                                                                         | 26.53         | kW                                  |        | Tj=+25°C                                                               | EERd   | 7.60  |      |
| Tj=+20°C                                              | Pdc                                                                                                         | 11.79         | kW                                  |        | Tj=+20°C                                                               | EERd   | 15.60 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc                                                                                                         | 0.25          |                                     |        |                                                                        |        |       |      |
|                                                       |                                                                                                             | Power consu   | umption in mo                       | des    | other than "active mode"                                               |        |       |      |
| Off mode                                              | Poff                                                                                                        | 0.005         | kW                                  |        | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто                                                                                                         | 0.005         | kW                                  |        | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |                                                                                                             |               | Othe                                | er ite | ems                                                                    |        |       |      |
| Capacity control                                      |                                                                                                             | variable      |                                     |        | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 22000 | m³/h |
| Sound power<br>level, outdoor                         | Lwa                                                                                                         | 89            | dB                                  |        |                                                                        |        |       |      |
| GWP of the refrigerant                                |                                                                                                             | 2088          | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                        |        |       |      |
| Contact details                                       |                                                                                                             |               |                                     |        |                                                                        |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

| Model(s): MV8-560WV<br>Test matching indoor u    |               |               | IH71Q4N18(0                         | ລ)     |                                                                          |             |             |         |
|--------------------------------------------------|---------------|---------------|-------------------------------------|--------|--------------------------------------------------------------------------|-------------|-------------|---------|
| Outdoor side heat exch                           | anger of air  | conditioner   | air                                 |        |                                                                          |             |             |         |
| Indoor side heat exchange                        | nger of air c | onditioner: a | air                                 |        |                                                                          |             |             |         |
| If the heater is equipped                        | d with a sup  | plementary    | heater: no                          |        |                                                                          |             |             |         |
| Driver of compressor: e                          | electric moto | r             |                                     |        |                                                                          |             |             |         |
| Parameters shall be de optional.                 | clared for th | e average h   | eating seaso                        | n, p   | arameters for the warmer and                                             | colder hea  | ating seaso | ons are |
| Item                                             | Symbol        | Value         | Unit                                |        | Item                                                                     | Symbol      | Value       | Unit    |
| Rated heating capacity                           | Prated,h      | 56.00         | kW                                  |        | Seasonal space heating<br>energy efficiency                              | Ŋs,h        | 165.0       | %       |
| Declared heating<br>teperature 20°C              |               |               |                                     |        | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ten | factor for  | part load a |         |
| Tj=-7°C                                          | Pdh           | 27.42         | kW                                  |        | Tj=-7°C                                                                  | COPd        | 2.64        |         |
| Tj=+2°C                                          | Pdh           | 16.69         | kW                                  |        | Tj=+2°C                                                                  | COPd        | 3.79        |         |
| Tj=+7°C                                          | Pdh           | 10.73         | kW                                  |        | Tj=+7°C                                                                  | COPd        | 6.41        |         |
| Tj=+12°C                                         | Pdh           | 5.68          | kW                                  |        | Tj=+12°C                                                                 | COPd        | 7.09        |         |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh           | 31.00         | kW                                  |        | T <sub>biv</sub> =bivalent temperature                                   | COPd        | 2.13        |         |
| To∟=operation<br>temperature                     | Pdh           | 31.00         | kW                                  |        | To∟ =operation temperature                                               | COPd        | 2.13        |         |
| Bivalent temperature                             | Tbiv          | -10           | °C                                  |        |                                                                          |             |             |         |
|                                                  |               |               |                                     |        | [                                                                        |             |             |         |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh           | 0.25          |                                     |        |                                                                          |             |             |         |
| Power consumption in                             | modes othe    | r than "activ | e mode"                             |        | Suppleme                                                                 | ntary heate | er          |         |
| Off mode                                         | Poff          | 0.005         | kW                                  |        | Back-up heating capacity(*)                                              | elbu        | 0           | kW      |
| Thermosat-off mode                               | Рто           | 0.005         | kW                                  |        | Type of energy input                                                     |             |             |         |
| Crankcase heater mode                            | Рск           | 0.005         | kW                                  |        | Standby mode                                                             | Psb         | 0.005       | kW      |
|                                                  |               |               | Othe                                | er ite | ems                                                                      |             |             |         |
| Capacity control                                 |               | variable      |                                     |        | For air-to-air heat pump: air flow rate, outdoor measured                |             | 22000       | m³/h    |
| Sound power<br>level,outdoor                     | Lwa           | 89            | dB                                  |        |                                                                          |             |             |         |
| GWP of the refrigerant                           |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                          |             |             |         |
| Contact details                                  |               |               |                                     |        |                                                                          |             |             |         |
| (*)                                              |               |               |                                     |        |                                                                          |             |             |         |
| (**)If Cdh is not determir                       | ned by meas   | surement, th  | en the defaul                       | t de   | gradation coefficient of heat p                                          | umps shall  | be 0.25.    |         |
| Where information relat                          | tes to multi- | split heat pu | mps, the test                       | res    | ult and performance data may                                             | be obtaine  | ed on the b | asis of |

Cooling mode:

## Information requirements for air-to-air conditioners

Model(s): MV8-615WV2RN1E(ECO) Test matching indoor units form, cassette:8×MIH80Q4N18(Q) Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air Type: compressor driven Driver of compressor: electric motor Item Symbol Value Unit Item Symbol Value Unit Seasonal space cooling Rated cooling capacity Prated,c 61.50 kW 262.2 % ηs,c energy efficiency Declared energy efficiency ratio or gas utilisation efficiency Declared cooling capacity for part load at given outdoor /auxiliary energy factor for part load at given outdoor temperatures Tj and indoor 27/19°C (dry/wet bulb) temperatures Ti Tj=+35°C Pdc 61.50 kW Tj=+35°C EERd 2.38 ---Ti=+30°C Pdc 45.32 kW Ti=+30°C EERd 4.53 ---Tj=+25°C Pdc 29.13 kW Tj=+25°C EERd 7.54 ---Tj=+20°C Pdc 12.95 kW Tj=+20°C EERd 15.75 ---Degradation coefficient for air 0.25 Cdc --conditioners(\*) Power consumption in modes other than "active mode" Рск Off mode Poff 0.005 kW 0.005 kW Crankcase heater mode Рто Thermosat-off mode 0.005 kW Рѕв 0.005 kW Standby mode Other items For air-to-air air conditioner: Capacity control variable air flow rate, outdoor 21500 m³/h measured Sound power 89 dB Lwa level, outdoor kg CO<sub>2 eq</sub> GWP of the refrigerant 2088 (100years) Contact details (\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis

of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

Heating mode:

#### Information requirements for heat pumps Model(s): MV8-615WV2RN1E(ECO) Test matching indoor units form, cassette: 8×MIH80Q4N18(Q) Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Value Unit Value Unit Item Symbol Item Symbol Seasonal space heating Rated heating capacity 61.50 kW 172.6 % Prated,h **η**s,h energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Tj outdoor temperatures Ti Tj=-7°C 29.90 Tj=-7°C COPd 2.66 --- $\mathsf{P}^{\mathsf{dh}}$ kW Tj=+2°C Tj=+2°C Pdh 18.20 kW COPd 4.07 ---Tj=+7°C Tj=+7°C 11.70 kW COPd 6.53 $\mathsf{P}^{\mathsf{dh}}$ ---Tj=+12°C Tj=+12°C $\mathsf{P}^{\mathsf{dh}}$ kW COPd 7.41 6.75 ---Tbiv=bivalent Pdh 33.80 kW Tbiv =bivalent temperature 2.13 COPd temperature TOL=operation Pdh 33.80 kW COPd 2.13 TOL =operation temperature --temperature **Bivalent temperature** Tbiv -10 °C Degradation coefficient for Cdh 0.25 \_\_\_ heat pumps(\*\*) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(\*) Off mode POFF 0.005 kW elbu 0 kW Thermosat-off mode Type of energy input Рто 0.005 kW Crankcase heater mode Standby mode 0.005 kW Psb Рск 0.005 kW Other items For air-to-air heat pump: air Capacity control 21500 m³/h variable flow rate, outdoor measured Sound power Lwa 89 dB level,outdoor kg CO<sub>2</sub> eq GWP of the refrigerant 2088 (100years) Contact details (\*) (\*\*)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

| Info                                                  | ormatic       | on requ       | irements                            | s f    | for air-to-air cond                                                    | itione | rs    |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|--------|------------------------------------------------------------------------|--------|-------|------|
| Model(s): MV8-670WV2<br>Test matching indoor u        | · ·           | /             | H80Q4N18(Q                          | )+3    | ×MIH100Q4N18(Q)                                                        |        |       |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |        |                                                                        |        |       |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | ir                                  |        |                                                                        |        |       |      |
| Type: compressor drive                                | n             |               |                                     |        |                                                                        |        |       |      |
| Driver of compressor: e                               | electric moto | or            |                                     |        |                                                                        |        |       |      |
| Item                                                  | Symbol        | Value         | Unit                                |        | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 67.00         | kW                                  |        | Seasonal space cooling<br>energy efficiency                            | ηs,c   | 242.6 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |        | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc           | 67.00         | kW                                  |        | Tj=+35°C                                                               | EERd   | 2.14  |      |
| Tj=+30°C                                              | Pdc           | 49.37         | kW                                  |        | Tj=+30°C                                                               | EERd   | 4.21  |      |
| Tj=+25°C                                              | Pdc           | 31.74         | kW                                  |        | Tj=+25°C                                                               | EERd   | 6.98  |      |
| Tj=+20°C                                              | Pdc           | 14.11         | kW                                  |        | Tj=+20°C                                                               | EERd   | 14.81 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |        |                                                                        |        |       |      |
|                                                       | l             | Power consu   | umption in mo                       | des    | other than "active mode"                                               |        |       |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |        | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |        | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |               | •             | Othe                                | er ite | ems                                                                    |        |       |      |
| Capacity control                                      |               | variable      |                                     |        | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 21500 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 92            | dB                                  |        |                                                                        |        |       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                        |        |       |      |
| Contact details                                       |               |               | ·                                   |        |                                                                        |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-670WV2RN1E(ECO)

#### Test matching indoor units form, cassette: 5×MIH80Q4N18(Q)+3×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| -                                                |             |                |                                     |       |                                                                                                                                   |             |         |      |
|--------------------------------------------------|-------------|----------------|-------------------------------------|-------|-----------------------------------------------------------------------------------------------------------------------------------|-------------|---------|------|
| Item                                             | Symbol      | Value          | Unit                                |       | Item                                                                                                                              | Symbol      | Value   | Unit |
| Rated heating capacity                           | Prated,h    | 67.00          | kW                                  |       | Seasonal space heating<br>energy efficiency                                                                                       | Ŋs,h        | 169.8   | %    |
| Declared heating<br>teperature 20°C              |             |                |                                     |       | Declared coefficient of performance or gas utili<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj |             |         |      |
| Tj=-7°C                                          | Pdh         | 32.60          | kW                                  |       | Tj=-7°C                                                                                                                           | COPd        | 2.56    |      |
| Tj=+2°C                                          | Pdh         | 19.84          | kW                                  |       | Tj=+2°C                                                                                                                           | COPd        | 3.97    |      |
| Tj=+7°C                                          | Pdh         | 12.76          | kW                                  |       | Tj=+7°C                                                                                                                           | COPd        | 6.53    |      |
| Tj=+12°C                                         | Pdh         | 6.45           | kW                                  |       | Tj=+12°C                                                                                                                          | COPd        | 7.73    |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 36.85          | kW                                  |       | T <sub>biv</sub> =bivalent temperature                                                                                            | COPd        | 2.05    |      |
| ToL=operation<br>temperature                     | Pdh         | 36.85          | kW                                  |       | ToL =operation temperature                                                                                                        | COPd        | 2.05    |      |
| Bivalent temperature                             | Tbiv        | -10            | °C                                  |       |                                                                                                                                   |             |         |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25           |                                     |       |                                                                                                                                   |             |         |      |
| Power consumption in r                           | modes other | r than "active | e mode"                             |       | Suppleme                                                                                                                          | ntary heate | er      |      |
| Off mode                                         | Poff        | 0.005          | kW                                  |       | Back-up heating capacity(*)                                                                                                       | elbu        | 0       | kW   |
| Thermosat-off mode                               | Рто         | 0.005          | kW                                  |       | Type of energy input                                                                                                              |             |         |      |
| Crankcase heater mode                            | Рск         | 0.005          | kW                                  |       | Standby mode                                                                                                                      | Psb         | 0.005   | kW   |
|                                                  |             |                | Othe                                | er it | ems                                                                                                                               |             |         |      |
| Capacity control                                 |             | variable       |                                     |       | For air-to-air heat pump: air flow rate, outdoor measured                                                                         |             | 21500   | m³/h |
| Sound power<br>level,outdoor                     | Lwa         | 92             | dB                                  |       |                                                                                                                                   |             |         |      |
| GWP of the refrigerant                           |             | 2088           | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                                                                                   |             |         |      |
| Contact details                                  |             |                |                                     |       |                                                                                                                                   |             |         |      |
| (*)                                              |             |                |                                     |       |                                                                                                                                   |             |         |      |
| (**)If Cdh is not determin                       | ed by meas  | urement th     | en the defaul                       | t de  | aredation coefficient of best p                                                                                                   | umps shall  | bo 0.25 |      |

Cooling mode:

| Information | requirements | for air-to-air | conditioners  |
|-------------|--------------|----------------|---------------|
| mornation   | requirements |                | contaitioners |

Model(s): MV8-730WV2RN1E(ECO)

Test matching indoor units form, cassette::2×MIH80Q4N18(Q)+6×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

| Type. compressor anve                                 | 211           |             |                                     |       |                                                                        |        |       |      |
|-------------------------------------------------------|---------------|-------------|-------------------------------------|-------|------------------------------------------------------------------------|--------|-------|------|
| Driver of compressor: e                               | electric moto | or          |                                     |       |                                                                        |        |       |      |
| Item                                                  | Symbol        | Value       | Unit                                |       | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 73.00       | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | Ŋs,c   | 224.6 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |             |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc           | 73.00       | kW                                  |       | Tj=+35°C                                                               | EERd   | 2.06  |      |
| Tj=+30°C                                              | Pdc           | 53.79       | kW                                  |       | Tj=+30°C                                                               | EERd   | 3.60  |      |
| Tj=+25°C                                              | Pdc           | 34.58       | kW                                  |       | Tj=+25°C                                                               | EER₫   | 6.84  |      |
| Tj=+20°C                                              | Pdc           | 15.37       | kW                                  |       | Tj=+20°C                                                               | EERd   | 13.74 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25        |                                     |       |                                                                        |        |       |      |
|                                                       |               | Power consu | umption in mo                       | des   | s other than "active mode"                                             |        |       |      |
| Off mode                                              | Poff          | 0.005       | kW                                  |       | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005       | kW                                  |       | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |               |             | Othe                                | er it | ems                                                                    |        |       |      |
| Capacity control                                      |               | variable    |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 29000 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93          | dB                                  |       |                                                                        |        |       |      |
| GWP of the refrigerant                                |               | 2088        | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |        |       |      |
| Contact details                                       |               |             |                                     |       |                                                                        |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-730WV2RN1E(ECO)

Test matching indoor units form, cassette:2×MIH80Q4N18(Q)+6×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol     | Value       | Unit                                | Item                                                                    | Symbol       | Value       | Unit |
|--------------------------------------------------|------------|-------------|-------------------------------------|-------------------------------------------------------------------------|--------------|-------------|------|
| Rated heating capacity                           | Prated,h   | 73.00       | kW                                  | Seasonal space heating<br>energy efficiency                             | <b>η</b> s,h | 167.8       | %    |
| Declared heating<br>teperature 20°C              |            |             |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor te |              | part load a |      |
| Tj=-7°C                                          | Pdh        | 38.04       | kW                                  | Tj=-7°C                                                                 | COPd         | 2.31        |      |
| Tj=+2°C                                          | Pdh        | 23.15       | kW                                  | Tj=+2°C                                                                 | COPd         | 3.89        |      |
| Tj=+7°C                                          | Pdh        | 14.88       | kW                                  | Tj=+7°C                                                                 | COPd         | 6.99        |      |
| Tj=+12°C                                         | Pdh        | 8.23        | kW                                  | Tj=+12°C                                                                | COPd         | 8.99        |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh        | 43.00       | kW                                  | T <sub>biv</sub> =bivalent temperature                                  | COPd         | 1.78        |      |
| To∟=operation<br>temperature                     | Pdh        | 43.00       | kW                                  | ToL =operation temperature                                              | COPd         | 1.78        |      |
| Bivalent temperature                             | Tbiv       | -10         | °C                                  |                                                                         |              |             |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh        | 0.25        |                                     |                                                                         |              |             |      |
| Power consumption in r                           |            |             |                                     |                                                                         | entary heate |             |      |
| Off mode                                         | Poff       | 0.005       | kW                                  | Back-up heating capacity(*)                                             | elbu         | 0           | kW   |
| Thermosat-off mode                               | Рто        | 0.005       | kW                                  | Type of energy input                                                    |              |             |      |
| Crankcase heater mode                            | Рск        | 0.005       | kW                                  | Standby mode                                                            | Рѕв          | 0.005       | kW   |
|                                                  |            |             | Othe                                | r items                                                                 |              |             |      |
| Capacity control                                 |            | variable    |                                     | For air-to-air heat pump: air flow rate, outdoor measured               |              | 29000       | m³/h |
| Sound power<br>level,outdoor                     | Lwa        | 93          | dB                                  |                                                                         |              |             |      |
| GWP of the refrigerant                           |            | 2088        | kg CO <sub>2 eq</sub><br>(100years) |                                                                         |              |             |      |
| Contact details                                  |            |             |                                     |                                                                         |              |             |      |
| (*)                                              |            |             |                                     |                                                                         |              |             |      |
| (**)If Cdh is not determin                       | ed by meas | urement, th | en the default                      | degradation coefficient of heat p                                       | oumps shall  | be 0.25.    |      |

| 28HP                                                  |               |               |                                     |        |                                                                        |        |       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|--------|------------------------------------------------------------------------|--------|-------|------|
| Cooling mode:                                         |               |               |                                     |        |                                                                        |        |       |      |
| Info                                                  | ormatic       | on requ       | irement                             | s f    | or air-to-air cond                                                     | itione | rs    |      |
| Model(s): MV8-785WV<br>Test matching indoor u         |               |               | H100Q4N18((                         | Q)     |                                                                        |        |       |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |        |                                                                        |        |       |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | air                                 |        |                                                                        |        |       |      |
| Type: compressor drive                                | en            |               |                                     |        |                                                                        |        |       |      |
| Driver of compressor: e                               | electric moto | r             |                                     |        |                                                                        |        |       |      |
| Item                                                  | Symbol        | Value         | Unit                                |        | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 78.50         | kW                                  |        | Seasonal space cooling energy efficiency                               | ηs,c   | 237.8 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |        | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc           | 78.50         | kW                                  |        | Tj=+35°C                                                               | EERd   | 2.42  |      |
| Tj=+30°C                                              | Pdc           | 57.84         | kW                                  |        | Tj=+30°C                                                               | EERd   | 3.88  |      |
| Tj=+25°C                                              | Pdc           | 37.18         | kW                                  |        | Tj=+25°C                                                               | EERd   | 7.02  |      |
| Tj=+20°C                                              | Pdc           | 16.53         | kW                                  |        | Tj=+20°C                                                               | EERd   | 13.54 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |        |                                                                        |        |       |      |
|                                                       |               | Power consu   | umption in mo                       | des    | other than "active mode"                                               |        | -     |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |        | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |        | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |               | •             | Othe                                | er ite | ems                                                                    | •      |       |      |
| Capacity control                                      |               | variable      |                                     |        | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 28000 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93            | dB                                  |        |                                                                        |        |       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                        |        |       |      |

Contact details

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-785WV2RN1E(ECO)

Test matching indoor units form, cassette: 8×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol     | Value         | Unit                                | Item                                                      | Symbol                                                                                                                           | Value    | Unit |  |
|--------------------------------------------------|------------|---------------|-------------------------------------|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------|----------|------|--|
| Rated heating capacity                           | Prated,h   | 78.50         | kW                                  | Seasonal space heating<br>energy efficiency               | ηs,h                                                                                                                             | 168.2    | %    |  |
| Declared heating<br>teperature 20°C              |            |               |                                     | efficiency/auxiliary energy                               | Declared coefficient of performance or gas util<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj |          |      |  |
| Tj=-7°C                                          | Pdh        | 38.04         | kW                                  | Tj=-7°C                                                   | COPd                                                                                                                             | 2.38     |      |  |
| Tj=+2°C                                          | Pdh        | 23.15         | kW                                  | Tj=+2°C                                                   | COPd                                                                                                                             | 3.90     |      |  |
| Tj=+7°C                                          | Pdh        | 14.88         | kW                                  | Tj=+7°C                                                   | COPd                                                                                                                             | 6.82     |      |  |
| Tj=+12°C                                         | Pdh        | 8.27          | kW                                  | Tj=+12°C                                                  | COPd                                                                                                                             | 8.77     |      |  |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh        | 43.00         | kW                                  | T <sub>biv</sub> =bivalent temperature                    | COPd                                                                                                                             | 1.97     |      |  |
| To∟=operation<br>temperature                     | Pdh        | 43.00         | kW                                  | ToL =operation temperature                                | COPd                                                                                                                             | 1.97     |      |  |
| Bivalent temperature                             | Tbiv       | -10           | °C                                  |                                                           |                                                                                                                                  |          |      |  |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh        | 0.25          |                                     |                                                           |                                                                                                                                  |          |      |  |
| Power consumption in                             | modes othe | r than "activ | e mode"                             | Suppleme                                                  | ntary heate                                                                                                                      | er       |      |  |
| Off mode                                         | Poff       | 0.005         | kW                                  | Back-up heating capacity(*)                               | elbu                                                                                                                             | 0        | kW   |  |
| Thermosat-off mode                               | Рто        | 0.005         | kW                                  | Type of energy input                                      |                                                                                                                                  |          |      |  |
| Crankcase heater mode                            | Рск        | 0.005         | kW                                  | Standby mode                                              | Psb                                                                                                                              | 0.005    | kW   |  |
|                                                  |            |               | Othe                                | ritems                                                    | •                                                                                                                                |          |      |  |
| Capacity control                                 |            | variable      |                                     | For air-to-air heat pump: air flow rate, outdoor measured |                                                                                                                                  | 28000    | m³/h |  |
| Sound power<br>level,outdoor                     | Lwa        | 93            | dB                                  |                                                           |                                                                                                                                  |          |      |  |
| GWP of the refrigerant                           |            | 2088          | kg CO <sub>2 eq</sub><br>(100years) |                                                           |                                                                                                                                  |          |      |  |
| Contact details                                  |            |               |                                     |                                                           |                                                                                                                                  |          |      |  |
| (*)                                              |            |               |                                     |                                                           |                                                                                                                                  |          |      |  |
| (**)If Cdh is not determin                       | ed by meas | surement, th  | en the default                      | degradation coefficient of heat p                         | umps shall                                                                                                                       | be 0.25. |      |  |

п

Cooling mode:

| Info                                                  | ormatio       | n requ        | irement                             | S     | for air-to-air cond                                                    | itione     | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8-850WV2<br>Test matching indoor ur       |               |               | IH100Q4N18                          | (Q)   | +2×MIH140Q4N18(Q)                                                      |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner:  | air                                 |       |                                                                        |            |          |      |
| Indoor side heat exchar                               | nger of air c | onditioner: a | ir                                  |       |                                                                        |            |          |      |
| Type: compressor drive                                | n             |               |                                     |       |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |            |          |      |
| ltem                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 85.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | ηs,c       | 234.2    | %    |
| Declared cooling cap<br>temperatures Tj an            |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 85.00         | kW                                  |       | Tj=+35°C                                                               | EERd       | 2.25     |      |
| Tj=+30°C                                              | Pdc           | 62.63         | kW                                  |       | Tj=+30°C                                                               | EERd       | 3.79     |      |
| Tj=+25°C                                              | Pdc           | 40.26         | kW                                  |       | Tj=+25°C                                                               | EERd       | 7.01     |      |
| Tj=+20°C                                              | Pdc           | 17.89         | kW                                  |       | Tj=+20°C                                                               | EER₫       | 13.77    |      |
|                                                       |               |               |                                     |       |                                                                        |            |          |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |            |          |      |
|                                                       | I             | Power consu   | imption in mo                       | des   | s other than "active mode"                                             |            |          |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               | •             | Oth                                 | er it | ems                                                                    |            | •        |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 28000    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93            | dB                                  |       |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |            |          |      |
| Contact details<br>(*)If Cdc is not determin          | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-850WV2RN1E(ECO)

Test matching indoor units form, cassette: 6×MIH100Q4N18(Q)+2×MIH140Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol      | Value          | Unit                                | Item                                                                     | Symbol       | Value       | Unit |
|--------------------------------------------------|-------------|----------------|-------------------------------------|--------------------------------------------------------------------------|--------------|-------------|------|
| Rated heating capacity                           | Prated,h    | 85.00          | kW                                  | Seasonal space heating<br>energy efficiency                              | <b>η</b> s,h | 165.0       | %    |
| Declared heating<br>teperature 20°C              |             |                |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load a |      |
| Tj=-7°C                                          | Pdh         | 39.81          | kW                                  | Tj=-7°C                                                                  | COPd         | 2.45        |      |
| Tj=+2°C                                          | Pdh         | 24.23          | kW                                  | Tj=+2°C                                                                  | COPd         | 3.74        |      |
| Tj=+7°C                                          | Pdh         | 15.58          | kW                                  | Tj=+7°C                                                                  | COPd         | 6.77        |      |
| Tj=+12°C                                         | Pdh         | 8.32           | kW                                  | Tj=+12°C                                                                 | COPd         | 8.70        |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 45.00          | kW                                  | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 1.90        |      |
| To∟=operation<br>temperature                     | Pdh         | 45.00          | kW                                  | To∟ =operation temperature                                               | COPd         | 1.90        |      |
| Bivalent temperature                             | Tbiv        | -10            | °C                                  |                                                                          |              |             |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25           |                                     |                                                                          |              |             |      |
| Power consumption in r                           | modes other | r than "active | e mode"                             | Suppleme                                                                 | ntary heate  | er          |      |
| Off mode                                         | Poff        | 0.005          | kW                                  | Back-up heating capacity(*)                                              | elbu         | 0           | kW   |
| Thermosat-off mode                               | Рто         | 0.005          | kW                                  | Type of energy input                                                     |              |             |      |
| Crankcase heater mode                            | Рск         | 0.005          | kW                                  | Standby mode                                                             | Psb          | 0.005       | kW   |
|                                                  |             |                | Othe                                | r items                                                                  |              |             |      |
| Capacity control                                 |             | variable       |                                     | For air-to-air heat pump: air flow rate, outdoor measured                |              | 28000       | m³/h |
| Sound power<br>level,outdoor                     | Lwa         | 93             | dB                                  |                                                                          |              |             |      |
| GWP of the refrigerant                           |             | 2088           | kg CO <sub>2 eq</sub><br>(100years) |                                                                          |              |             |      |
| Contact details                                  |             |                |                                     |                                                                          |              |             |      |
| (*)                                              |             |                |                                     |                                                                          |              |             |      |
| (**)If Cdh is not determin                       | ed by meas  | surement, th   | en the default                      | degradation coefficient of heat p                                        | umps shall   | be 0.25.    |      |

Cooling mode:

| Info                                                  | ormatic       | n requ        | irement                             | S     | for air-to-air cond                                                    | litione    | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8-900WV2<br>Test matching indoor u        |               |               | IH100Q4N18                          | (Q)   | +3×MIH140Q4N18(Q)                                                      |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner:  | air                                 |       |                                                                        |            |          |      |
| Indoor side heat exchar                               | nger of air c | onditioner: a | ir                                  |       |                                                                        |            |          |      |
| Type: compressor drive                                | n             |               |                                     |       |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 90.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | ηs,c       | 228.2    | %    |
| Declared cooling cap<br>temperatures Tj an            |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 90.00         | kW                                  |       | Tj=+35°C                                                               | EERd       | 2.05     |      |
| Tj=+30°C                                              | Pdc           | 66.32         | kW                                  |       | Tj=+30°C                                                               | EERd       | 3.72     |      |
| Tj=+25°C                                              | Pdc           | 42.63         | kW                                  |       | Tj=+25°C                                                               | EER₫       | 6.98     |      |
| Tj=+20°C                                              | Pdc           | 18.95         | kW                                  |       | Tj=+20°C                                                               | EERd       | 13.55    |      |
|                                                       |               |               |                                     |       |                                                                        | 1          |          |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |            |          |      |
|                                                       |               | Power consu   | Imption in mo                       | des   | s other than "active mode"                                             |            |          |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               | 1             | Oth                                 | er it | ems                                                                    | •          |          |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 28000    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93            | dB                                  |       |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |            |          |      |
| Contact details                                       |               |               |                                     |       |                                                                        |            |          |      |
| (*)If Cdc is not determin                             | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8-900WV2RN1E(ECO)

Test matching indoor units form, cassette:5×MIH100Q4N18(Q)+3×MIH140Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| •                                                |               |                |                                     |                                                                          |              |              |         |
|--------------------------------------------------|---------------|----------------|-------------------------------------|--------------------------------------------------------------------------|--------------|--------------|---------|
| Item                                             | Symbol        | Value          | Unit                                | Item                                                                     | Symbol       | Value        | Unit    |
| Rated heating capacity                           | Prated,h      | 90.00          | kW                                  | Seasonal space heating<br>energy efficiency                              | <b>η</b> s,h | 165.0        | %       |
| Declared heating<br>teperature 20°C              |               |                |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ter | factor for   | part load at |         |
| Tj=-7°C                                          | Pdh           | 39.81          | kW                                  | Tj=-7°C                                                                  | COPd         | 2.41         |         |
| Tj=+2°C                                          | Pdh           | 24.23          | kW                                  | Tj=+2°C                                                                  | COPd         | 3.75         |         |
| Tj=+7°C                                          | Pdh           | 15.58          | kW                                  | Tj=+7°C                                                                  | COPd         | 6.84         |         |
| Tj=+12°C                                         | Pdh           | 8.22           | kW                                  | Tj=+12°C                                                                 | COPd         | 8.79         |         |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh           | 45.00          | kW                                  | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 1.86         |         |
| To∟=operation<br>temperature                     | Pdh           | 45.00          | kW                                  | ToL =operation temperature                                               | COPd         | 1.86         |         |
| Bivalent temperature                             | Tbiv          | -10            | °C                                  |                                                                          |              |              |         |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh           | 0.25           |                                     |                                                                          |              |              |         |
| Power consumption in                             | modes othe    | r than "active | e mode"                             |                                                                          | ntary heate  | er           |         |
| Off mode                                         | Poff          | 0.005          | kW                                  | Back-up heating capacity(*)                                              | elbu         | 0            | kW      |
| Thermosat-off mode                               | Рто           | 0.005          | kW                                  | Type of energy input                                                     |              |              |         |
| Crankcase heater mode                            | Рск           | 0.005          | kW                                  | Standby mode                                                             | Рѕв          | 0.005        | kW      |
|                                                  |               |                | Othe                                | r items                                                                  |              |              |         |
| Capacity control                                 |               | variable       |                                     | For air-to-air heat pump: air flow rate, outdoor measured                |              | 28000        | m³/h    |
| Sound power<br>level,outdoor                     | Lwa           | 93             | dB                                  |                                                                          |              |              |         |
| GWP of the refrigerant                           |               | 2088           | kg CO <sub>2 eq</sub><br>(100years) |                                                                          |              |              |         |
| Contact details                                  |               |                |                                     |                                                                          |              |              |         |
| (*)                                              |               |                |                                     |                                                                          |              |              |         |
| (**)If Cdh is not determin                       | ned by meas   | surement, th   | en the default                      | degradation coefficient of heat p                                        | umps shall   | be 0.25.     |         |
| Where information relat                          | tes to multi- | solit heat ou  | mos the test r                      | esult and performance data may                                           | he obtaine   | ed on the h  | asis of |

## 2 FOR V8I INDIVIDUAL SERIES

#### 8HP

Cooling mode:

| Info                                                  | ormatio       | on requ       | irement                             | s for air-to-air cond                                                 | ditione    | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-----------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8i-252WV<br>Test matching indoor u        |               |               | IH45Q4N18(C                         | ))+3×MIH71Q4N18(Q)                                                    |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |                                                                       |            |          |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | ir                                  |                                                                       |            |          |      |
| Type: compressor drive                                | en            |               |                                     |                                                                       |            |          |      |
| Driver of compressor: e                               | electric moto | r             |                                     |                                                                       |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                | Item                                                                  | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 25.20         | kW                                  | Seasonal space cooling<br>energy efficiency                           | ηs,c       | 290.2    | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     | Declared energy efficiency i<br>/auxiliary energy factor fo<br>tempe  |            |          |      |
| Tj=+35°C                                              | Pdc           | 25.20         | kW                                  | Tj=+35°C                                                              | EERd       | 3.21     |      |
| Tj=+30°C                                              | Pdc           | 18.57         | kW                                  | Tj=+30°C                                                              | EERd       | 4.96     |      |
| Tj=+25°C                                              | Pdc           | 11.94         | kW                                  | Tj=+25°C                                                              | EERd       | 8.35     |      |
| Tj=+20°C                                              | Pdc           | 7.83          | kW                                  | Tj=+20°C                                                              | EERd       | 16.60    |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |                                                                       |            |          |      |
|                                                       | l             | Power consu   | umption in mo                       | des other than "active mode"                                          | •          |          |      |
| Off mode                                              | Poff          | 0.005         | kW                                  | Crankcase heater mode                                                 | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  | Standby mode                                                          | Рѕв        | 0.005    | kW   |
|                                                       |               | 1             | Othe                                | r items                                                               | 1          | 1        | I    |
| Capacity control                                      |               | variable      |                                     | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured |            | 12600    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 83            | dB                                  |                                                                       |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |                                                                       |            |          |      |
| Contact details<br>(*)If Cdc is not determin          | ed by meas    | urement, the  | en the default                      | degradation coefficient of heat p                                     | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-252WV2RN1E(ECO)

Test matching indoor units form, cassette: 1×MIH45Q4N18(Q)+3×MIH71Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| ltem                                             | Symbol       | Value         | Unit                                | Item                                                                     | Symbol       | Value        | Unit    |
|--------------------------------------------------|--------------|---------------|-------------------------------------|--------------------------------------------------------------------------|--------------|--------------|---------|
| Rated heating capacity                           | Prated,h     | 25.20         | kW                                  | Seasonal space heating<br>energy efficiency                              | ηs,h         | 170.2        | %       |
| Declared heating<br>teperature 20°C              |              |               |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load at |         |
| Tj=-7°C                                          | Pdh          | 12.12         | kW                                  | Tj=-7°C                                                                  | COPd         | 2.68         |         |
| Tj=+2°C                                          | Pdh          | 7.38          | kW                                  | Tj=+2°C                                                                  | COPd         | 4.17         |         |
| Tj=+7°C                                          | Pdh          | 5.57          | kW                                  | Tj=+7°C                                                                  | COPd         | 6.11         |         |
| Tj=+12°C                                         | Pdh          | 6.24          | kW                                  | Tj=+12°C                                                                 | COPd         | 7.65         |         |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh          | 13.70         | kW                                  | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 2.26         |         |
| To∟=operation<br>temperature                     | Pdh          | 13.70         | kW                                  | ToL =operation temperature                                               | COPd         | 2.26         |         |
| Bivalent temperature                             | Tbiv         | -10           | °C                                  |                                                                          |              |              |         |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh          | 0.25          |                                     |                                                                          |              |              |         |
| Power consumption in r                           | nodes othe   | r than "activ | e mode"                             |                                                                          | ntary heate  | er           |         |
| Off mode                                         | Poff         | 0.005         | kW                                  | Back-up heating capacity(*)                                              | elbu         | 0            | kW      |
| Thermosat-off mode                               | Рто          | 0.005         | kW                                  | Type of energy input                                                     |              |              |         |
| Crankcase heater mode                            | Рск          | 0.005         | kW                                  | Standby mode                                                             | Psb          | 0.005        | kW      |
|                                                  |              |               | Other                               | items                                                                    |              |              |         |
| Capacity control                                 |              | variable      |                                     | For air-to-air heat pump: air flow rate, outdoor measured                |              | 12600        | m³/h    |
| Sound power<br>level,outdoor                     | Lwa          | 83            | dB                                  |                                                                          |              |              |         |
| GWP of the refrigerant                           |              | 2088          | kg CO <sub>2 eq</sub><br>(100years) |                                                                          |              |              |         |
| Contact details                                  |              |               |                                     |                                                                          |              |              |         |
| (*)                                              |              |               |                                     |                                                                          |              |              |         |
| (**)If Cdh is not determir                       | ed by meas   | surement, th  | en the default o                    | degradation coefficient of heat p                                        | umps shall   | be 0.25.     |         |
| Where information relat                          | es to multi- | split heat pu | imps the test re                    | esult and performance data may                                           | be obtaine   | ed on the h  | asis of |

Cooling mode:

### Information requirements for air-to-air conditioners

Model(s): MV8i-280WV2RN1E(ECO)

Test matching indoor units form, cassette: 3×MIH71Q4N18(Q)+1×MIH80Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

Driver of compressor: electric motor Item Symbol Value Unit Item Symbol Value Unit Seasonal space cooling Rated cooling capacity 28.00 kW 287.0 % Prated,c ηs,c energy efficiency Declared energy efficiency ratio or gas utilisation efficiency Declared cooling capacity for part load at given outdoor /auxiliary energy factor for part load at given outdoor temperatures Tj and indoor 27/19°C (dry/wet bulb) temperatures Tj Tj=+35°C 28.00 kW Tj=+35°C EERd 3.20 Pdc ---Tj=+30°C Pdc 20.63 kW Tj=+30°C EERd 4.81 ---Pdc Tj=+25°C 13.26 kW Tj=+25°C EERd 8.15 ---Tj=+20°C Pdc 7.97 kW Tj=+20°C EERd 17.03 ---Degradation coefficient for air 0.25 Cdc \_\_\_ conditioners(\*) Power consumption in modes other than "active mode" Off mode POFF 0.005 kW Crankcase heater mode Рск 0.005 kW Thermosat-off mode kW Standby mode kW Рто 0.005 Psb 0.005 Other items For air-to-air air conditioner: Capacity control variable air flow rate, outdoor \_\_\_ 12600 m³/h measured Sound power Lwa 84 dB level, outdoor kg CO<sub>2</sub> eq GWP of the refrigerant 2088 (100years)

Contact details

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-280WV2RN1E(ECO) Test matching indoor units form, cassette: 3×MIH71Q4N18(Q)+1×MIH80Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| ItemSymbolRated heating capacityPrated,hDeclared heating capacity<br>teperature 20°C and outdTj=-7°CPdhTj=+2°CPdhTj=+7°CPdhTj=+12°CPdhToix=bivalent<br>temperaturePdhToix=operation<br>temperaturePdhDegradation<br>coefficient for<br>heat pumps(**)CdhPower consumption in modes othOff modeOff modePorFThermosat-off modePto                                                                                                              |                                                                                            |                                                                | Item       Seasonal space heating energy efficiency       Declared coefficient of pe efficiency/auxiliary energy outdoor ter       Tj=-7°C       Tj=+2°C       Tj=+12°C       Tj=+12°C       Tbiv = bivalent temperature       ToL = operation temperature | factor for                                                            | part load at                                                               |                         |
|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------|----------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------|----------------------------------------------------------------------------|-------------------------|
| Declared heating capacity teperature 20°C and outd       Tj=-7°C     Pdh       Tj=+2°C     Pdh       Tj=+12°C     Pdh       Tj=+12°C     Pdh       Toix=bivalent temperature     Pdh       Toix=operation temperature     Pdh       Bivalent temperature     Tbiv       Degradation coefficient for heat pumps(**)     Cdh       Power consumption in modes oth     Off mode       Off mode     Porpre                                       | for part load a<br>oor temperatu<br>14.15<br>8.62<br>5.77<br>6.45<br>16.00<br>16.00<br>-10 | at indoor<br>ures Tj<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW<br>KW | energy efficiency       Declared coefficient of peeficiency/auxiliary energy outdoor ter       Tj=-7°C       Tj=+2°C       Tj=+7°C       Tj=+12°C       Tj=+12°C       Tbiv = bivalent temperature                                                         | rformance<br>factor for<br>nperatures<br>COPd<br>COPd<br>COPd<br>COPd | or gas utili<br>part load at<br>Tj<br>2.50<br>4.07<br>6.18<br>7.73<br>2.10 | sation<br>given<br><br> |
| teperature 20°C and outd       Tj=-7°C     Pdh       Tj=+2°C     Pdh       Tj=+7°C     Pdh       Tj=+12°C     Pdh       Tj=+12°C     Pdh       Toiv=bivalent<br>temperature     Pdh       ToL=operation<br>temperature     Pdh       Bivalent temperature     Tbiv       Degradation<br>coefficient for<br>heat pumps(**)     Cdh       Power consumption in modes oth     Off mode       Off mode     POFF       Thermosat-off mode     PTO | 000r temperatu<br>14.15<br>8.62<br>5.77<br>6.45<br>16.00<br>16.00<br>-10                   | kW<br>kW<br>kW<br>kW<br>kW<br>kW<br>kW                         | efficiency/auxiliary energy<br>outdoor ter<br>Tj=-7°C<br>Tj=+7°C<br>Tj=+7°C<br>Tj=+12°C<br>Tbiv =bivalent temperature                                                                                                                                      | COPd<br>COPd<br>COPd<br>COPd<br>COPd<br>COPd<br>COPd                  | part load at<br>Tj<br>2.50<br>4.07<br>6.18<br>7.73<br>2.10                 | : given<br><br>         |
| Tj=+2°C   Pdh     Tj=+7°C   Pdh     Tj=+12°C   Pdh     Tbiv=bivalent<br>temperature   Pdh     ToL=operation<br>temperature   Pdh     Bivalent temperature   Tbiv     Degradation<br>coefficient for<br>heat pumps(**)   Cdh     Power consumption in modes oth<br>Off mode   PoFF     Thermosat-off mode   PTO                                                                                                                               | 8.62<br>5.77<br>6.45<br>16.00<br>16.00<br>-10                                              | kW   kW   kW   kW   kW   c                                     | Tj=+2°C<br>Tj=+7°C<br>Tj=+12°C<br>Tbiv =bivalent temperature                                                                                                                                                                                               | COPd<br>COPd<br>COPd<br>COPd                                          | 4.07<br>6.18<br>7.73<br>2.10                                               |                         |
| Tj=+7°C   Pdh     Tj=+7°C   Pdh     Tj=+12°C   Pdh     Tbiv=bivalent<br>temperature   Pdh     ToL=operation<br>temperature   Pdh     Bivalent temperature   Tbiv     Degradation<br>coefficient for<br>heat pumps(**)   Cdh     Power consumption in modes oth<br>Off mode   PoFF     Thermosat-off mode   PTO                                                                                                                               | 5.77<br>6.45<br>16.00<br>16.00<br>-10                                                      | kW   kW   kW   kW   °C                                         | Tj=+7°C<br>Tj=+12°C<br>Tbiv =bivalent temperature                                                                                                                                                                                                          | COPd<br>COPd<br>COPd                                                  | 6.18<br>7.73<br>2.10                                                       |                         |
| Tj=+12°C   Pdh     Tbiv=bivalent<br>temperature   Pdh     ToL=operation<br>temperature   Pdh     Bivalent temperature   Tbiv     Degradation<br>coefficient for<br>heat pumps(**)   Cdh     Power consumption in modes oth<br>Off mode   PoFF     Thermosat-off mode   PTO                                                                                                                                                                   | 6.45<br>16.00<br>16.00<br>-10                                                              | kW<br>kW<br>kW<br>°C                                           | Tj=+12°C<br>Tbiv =bivalent temperature                                                                                                                                                                                                                     | COPd<br>COPd                                                          | 7.73<br>2.10                                                               |                         |
| Tbiv=bivalent<br>temperature   Pdh     ToL=operation<br>temperature   Pdh     Bivalent temperature   Tbiv     Degradation<br>coefficient for<br>heat pumps(**)   Cdh     Power consumption in modes oth<br>Off mode   PoFF     Thermosat-off mode   PTO                                                                                                                                                                                      | 16.00<br>16.00<br>-10                                                                      | kW<br>kW<br>°C                                                 | T <sub>biv</sub> =bivalent temperature                                                                                                                                                                                                                     | COPd                                                                  | 2.10                                                                       |                         |
| temperature   Pdh     ToL=operation<br>temperature   Pdh     Bivalent temperature   Tbiv     Degradation<br>coefficient for<br>heat pumps(**)   Cdh     Power consumption in modes oth<br>Off mode   PoFF     Thermosat-off mode   PTO                                                                                                                                                                                                       | 16.00<br>-10                                                                               | kW<br>°C                                                       |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| temperature Pdh<br>Bivalent temperature Tbiv<br>Degradation<br>coefficient for<br>heat pumps(**) Cdh<br>Power consumption in modes oth<br>Off mode PoFF<br>Thermosat-off mode PTO                                                                                                                                                                                                                                                            | -10                                                                                        | °C                                                             | To∟ =operation temperature                                                                                                                                                                                                                                 | COPd                                                                  | 2.10                                                                       |                         |
| Degradation<br>coefficient for<br>heat pumps(**)   Cdh     Power consumption in modes oth<br>Off mode   POFF     Thermosat-off mode   PTO                                                                                                                                                                                                                                                                                                    |                                                                                            |                                                                |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| coefficient for<br>heat pumps(**)CdhPower consumption in modes offOff modePOFFThermosat-off modePTO                                                                                                                                                                                                                                                                                                                                          | 0.25                                                                                       |                                                                |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| Off mode PoFF<br>Thermosat-off mode PTO                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                            |                                                                |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| Thermosat-off mode PTO                                                                                                                                                                                                                                                                                                                                                                                                                       | er than "activ                                                                             | /e mode"                                                       |                                                                                                                                                                                                                                                            | ntary heate                                                           | er                                                                         |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.005                                                                                      | kW                                                             | Back-up heating capacity(*)                                                                                                                                                                                                                                | elbu                                                                  | 0                                                                          | kW                      |
| Crankcase heater mode PCK                                                                                                                                                                                                                                                                                                                                                                                                                    | 0.005                                                                                      | kW                                                             | Type of energy input                                                                                                                                                                                                                                       |                                                                       |                                                                            |                         |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              | 0.005                                                                                      | kW                                                             | Standby mode                                                                                                                                                                                                                                               | Psb                                                                   | 0.005                                                                      | kW                      |
|                                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                            | Othe                                                           | r items                                                                                                                                                                                                                                                    |                                                                       |                                                                            |                         |
| Capacity control                                                                                                                                                                                                                                                                                                                                                                                                                             | variable                                                                                   |                                                                | For air-to-air heat pump: air flow rate, outdoor measured                                                                                                                                                                                                  |                                                                       | 12600                                                                      | m³/h                    |
| Sound power LwA                                                                                                                                                                                                                                                                                                                                                                                                                              | 84                                                                                         | dB                                                             |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| GWP of the refrigerant                                                                                                                                                                                                                                                                                                                                                                                                                       | 2088                                                                                       | kg CO <sub>2 eq</sub><br>(100years)                            |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| Contact details                                                                                                                                                                                                                                                                                                                                                                                                                              |                                                                                            |                                                                |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| (*)                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                            |                                                                |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |
| (**)If Cdh is not determined by me                                                                                                                                                                                                                                                                                                                                                                                                           |                                                                                            |                                                                |                                                                                                                                                                                                                                                            |                                                                       |                                                                            |                         |

п

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | S     | for air-to-air cond                                                    | itione     | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8i-335WV<br>Test matching indoor u        |               |               | IH45Q4N18((                         | Q)+   | 3×MIH71Q4N18(Q)                                                        |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner:  | air                                 |       |                                                                        |            |          |      |
| Indoor side heat exchai                               | nger of air c | onditioner: a | ir                                  |       |                                                                        |            |          |      |
| Type: compressor drive                                | n             |               |                                     |       |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | or            |                                     |       |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | ltem                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 33.50         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | ηs,c       | 284.6    | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 33.50         | kW                                  |       | Tj=+35°C                                                               | EERd       | 2.88     |      |
| Tj=+30°C                                              | Pdc           | 24.68         | kW                                  |       | Tj=+30°C                                                               | EERd       | 4.84     |      |
| Tj=+25°C                                              | Pdc           | 15.87         | kW                                  |       | Tj=+25°C                                                               | EERd       | 8.24     |      |
| Tj=+20°C                                              | Pdc           | 8.87          | kW                                  |       | Tj=+20°C                                                               | EERd       | 16.68    |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |            |          |      |
|                                                       |               | Power consu   | imption in mo                       | des   | s other than "active mode"                                             |            |          |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               |               | Oth                                 | er it | tems                                                                   | •          |          |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 13500    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 85            | dB                                  |       |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |            |          |      |
| Contact details                                       |               |               |                                     |       |                                                                        |            |          |      |
| (*)If Cdc is not determin                             | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-335WV2RN1E(ECO)

Test matching indoor units form, cassette: 3×MIH45Q4N18(Q)+3×MIH71Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol      | Value        | Unit                                | Item                                                                     | Symbol       | Value       | Unit |
|--------------------------------------------------|-------------|--------------|-------------------------------------|--------------------------------------------------------------------------|--------------|-------------|------|
| Rated heating capacity                           | Prated,h    | 33.50        | kW                                  | Seasonal space heating<br>energy efficiency                              | <b>η</b> s,h | 168.6       | %    |
| Declared heating<br>teperature 20°C              |             |              |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load a |      |
| Tj=-7°C                                          | Pdh         | 16.28        | kW                                  | Tj=-7°C                                                                  | COPd         | 2.50        |      |
| Tj=+2°C                                          | Pdh         | 9.91         | kW                                  | Tj=+2°C                                                                  | COPd         | 3.97        |      |
| Tj=+7°C                                          | Pdh         | 6.37         | kW                                  | Tj=+7°C                                                                  | COPd         | 6.50        |      |
| Tj=+12°C                                         | Pdh         | 6.44         | kW                                  | Tj=+12°C                                                                 | COPd         | 8.30        |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 18.40        | kW                                  | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 2.18        |      |
| To∟=operation<br>temperature                     | Pdh         | 18.40        | kW                                  | To∟ =operation temperature                                               | COPd         | 2.18        |      |
| Bivalent temperature                             | Tbiv        | -10          | °C                                  |                                                                          |              |             |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25         |                                     |                                                                          |              |             |      |
| Power consumption in r                           | modes other | than "active | e mode"                             | Suppleme                                                                 | ntary heate  | er          | -    |
| Off mode                                         | Poff        | 0.005        | kW                                  | Back-up heating capacity(*)                                              | elbu         | 0           | kW   |
| Thermosat-off mode                               | Рто         | 0.005        | kW                                  | Type of energy input                                                     |              |             |      |
| Crankcase heater mode                            | Рск         | 0.005        | kW                                  | Standby mode                                                             | Psb          | 0.005       | kW   |
|                                                  |             |              | Othe                                | r items                                                                  |              |             |      |
| Capacity control                                 |             | variable     |                                     | For air-to-air heat pump: air flow rate, outdoor measured                |              | 13500       | m³/h |
| Sound power<br>level,outdoor                     | Lwa         | 85           | dB                                  |                                                                          |              |             |      |
| GWP of the refrigerant                           |             | 2088         | kg CO <sub>2 eq</sub><br>(100years) |                                                                          |              |             |      |
| Contact details                                  |             |              |                                     |                                                                          |              |             |      |
| (*)                                              |             |              |                                     |                                                                          |              |             |      |
| (**)If Cdb is not determin                       | ed by meas  | urement th   | en the default                      | degradation coefficient of heat p                                        | umps shall   | bo 0.25     |      |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | S     | for air-to-air cond                                                    | litione | rs    |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|---------|-------|------|
| Model(s): MV8i-400WV<br>Test matching indoor u        |               |               | IH45Q4N18(0                         | ב)+   | 4×MIH80Q4N18(Q)                                                        |         |       |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |       |                                                                        |         |       |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | air                                 |       |                                                                        |         |       |      |
| Type: compressor drive                                | n             |               |                                     |       |                                                                        |         |       |      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |         |       |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol  | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 40.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | Ŋs,c    | 288.2 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |         |       |      |
| Tj=+35°C                                              | Pdc           | 40.00         | kW                                  |       | Tj=+35°C                                                               | EERd    | 2.85  |      |
| Tj=+30°C                                              | Pdc           | 29.47         | kW                                  |       | Tj=+30°C                                                               | EERd    | 4.78  |      |
| Tj=+25°C                                              | Pdc           | 18.95         | kW                                  |       | Tj=+25°C                                                               | EERd    | 8.25  |      |
| Tj=+20°C                                              | Pdc           | 8.42          | kW                                  |       | Tj=+20°C                                                               | EERd    | 17.63 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |         |       |      |
|                                                       | l             | Power consu   | umption in mo                       | de    | s other than "active mode"                                             |         |       |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск     | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв     | 0.005 | kW   |
|                                                       |               | •             | Othe                                | er it | ems                                                                    |         |       |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |         | 15600 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 86            | dB                                  |       |                                                                        |         |       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |         |       |      |
| Contact details                                       |               |               |                                     |       |                                                                        |         |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

|                                                  |               |                | -                                   |       | -                                                                        | -            |             |         |
|--------------------------------------------------|---------------|----------------|-------------------------------------|-------|--------------------------------------------------------------------------|--------------|-------------|---------|
| Model(s): MV8i-400WV<br>Test matching indoor u   |               |                | 1IH45Q4N18(                         | Q)+   | -4×MIH80Q4N18(Q)                                                         |              |             |         |
| Outdoor side heat exch                           |               |                |                                     |       |                                                                          |              |             |         |
| Indoor side heat exchai                          | nger of air c | onditioner: a  | air                                 |       |                                                                          |              |             |         |
| If the heater is equippe                         | d with a sup  | plementary     | heater: no                          |       |                                                                          |              |             |         |
| Driver of compressor: e                          | electric moto | r              |                                     |       |                                                                          |              |             |         |
| Parameters shall be de optional.                 | clared for th | ie average h   | eating seaso                        | n, p  | arameters for the warmer and                                             | colder hea   | ating seaso | ons are |
| Item                                             | Symbol        | Value          | Unit                                |       | Item                                                                     | Symbol       | Value       | Unit    |
| Rated heating capacity                           | Prated,h      | 40.00          | kW                                  |       | Seasonal space heating<br>energy efficiency                              | Ŋs,h         | 171.8       | %       |
| Declared heating<br>teperature 20°C              |               |                |                                     |       | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load a |         |
| Tj=-7°C                                          | Pdh           | 19.46          | kW                                  |       | Tj=-7°C                                                                  | COPd         | 2.58        |         |
| Tj=+2°C                                          | Pdh           | 11.85          | kW                                  |       | Tj=+2°C                                                                  | COPd         | 4.11        |         |
| Tj=+7°C                                          | Pdh           | 7.62           | kW                                  |       | Tj=+7°C                                                                  | COPd         | 6.43        |         |
| Tj=+12°C                                         | Pdh           | 7.79           | kW                                  |       | Tj=+12°C                                                                 | COPd         | 8.16        |         |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh           | 22.00          | kW                                  |       | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 2.16        |         |
| To∟=operation<br>temperature                     | Pdh           | 22.00          | kW                                  |       | To∟ =operation temperature                                               | COPd         | 2.16        |         |
| Bivalent temperature                             | Tbiv          | -10            | °C                                  |       |                                                                          |              |             |         |
|                                                  |               |                |                                     |       | [                                                                        |              |             |         |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh           | 0.25           |                                     |       |                                                                          |              |             |         |
| Power consumption in                             | modes othe    | r than "active | e mode"                             |       | Suppleme                                                                 | ntary heate  | er          |         |
| Off mode                                         | Poff          | 0.005          | kW                                  |       | Back-up heating capacity(*)                                              | elbu         | 0           | kW      |
| Thermosat-off mode                               | Рто           | 0.005          | kW                                  |       | Type of energy input                                                     |              |             |         |
| Crankcase heater mode                            | Рск           | 0.005          | kW                                  |       | Standby mode                                                             | Рѕв          | 0.005       | kW      |
|                                                  |               | •              | Othe                                | er it | ems                                                                      |              |             |         |
| Capacity control                                 |               | variable       |                                     |       | For air-to-air heat pump: air flow rate, outdoor measured                |              | 15600       | m³/h    |
| Sound power<br>level,outdoor                     | Lwa           | 86             | dB                                  |       |                                                                          | ·            |             |         |
| GWP of the refrigerant                           |               | 2088           | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                          |              |             |         |
| Contact details                                  |               |                |                                     |       |                                                                          |              |             |         |
| (*)                                              |               |                |                                     |       |                                                                          |              |             |         |
| (**)If Cdh is not determin                       | ned by meas   | surement, th   | en the defaul                       | t de  | gradation coefficient of heat p                                          | umps shall   | be 0.25.    |         |
| Where information relat                          | tes to multi- | split heat pu  | mps, the test                       | res   | ult and performance data may                                             | be obtaine   | ed on the b | asis of |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | s 1    | for air-to-air cond                                                    | itione     | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|--------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8i-450WV<br>Test matching indoor u        | · ·           | ,             | IH71Q4N18(0                         | ב)+؛   | 5×MIH80Q4N18(Q)                                                        |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner:  | air                                 |        |                                                                        |            |          |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | ir                                  |        |                                                                        |            |          |      |
| Type: compressor drive                                | en            |               |                                     |        |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | r             |                                     |        |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |        | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 45.00         | kW                                  |        | Seasonal space cooling<br>energy efficiency                            | Ŋs,c       | 270.2    | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |        | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 45.00         | kW                                  |        | Tj=+35°C                                                               | EERd       | 2.45     |      |
| Tj=+30°C                                              | Pdc           | 33.16         | kW                                  |        | Tj=+30°C                                                               | EERd       | 4.38     |      |
| Tj=+25°C                                              | Pdc           | 21.32         | kW                                  |        | Tj=+25°C                                                               | EERd       | 7.93     |      |
| Tj=+20°C                                              | Pdc           | 9.47          | kW                                  |        | Tj=+20°C                                                               | EERd       | 17.87    |      |
|                                                       |               | 1             |                                     |        |                                                                        |            |          | 1    |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |        |                                                                        |            |          |      |
|                                                       |               | Power consu   | imption in mo                       | des    | other than "active mode"                                               |            |          | •    |
| Off mode                                              | Poff          | 0.005         | kW                                  |        | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |        | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               |               | Othe                                | er ite | ems                                                                    |            |          | •    |
| Capacity control                                      |               | variable      |                                     |        | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 15600    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 86            | dB                                  |        |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                        |            |          |      |
| Contact details                                       |               |               |                                     |        |                                                                        |            |          |      |
| (*)If Cdc is not determin                             | ed by meas    | urement, the  | en the default                      | deç    | gradation coefficient of heat pu                                       | imps shall | be 0.25. |      |

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

# 35

Heating mode:

## Information requirements for heat pumps

|                                                  |               |                | . oqui o                            | nonto ioi nout pui                                                       |              |             |          |
|--------------------------------------------------|---------------|----------------|-------------------------------------|--------------------------------------------------------------------------|--------------|-------------|----------|
| Model(s): MV8i-450WV<br>Test matching indoor u   |               |                | 1IH71Q4N18(                         | Q)+5×MIH80Q4N18(Q)                                                       |              |             |          |
| Outdoor side heat exch                           | anger of air  | conditioner    | air                                 | · · ·                                                                    |              |             |          |
| Indoor side heat excha                           | nger of air c | onditioner: a  | air                                 |                                                                          |              |             |          |
| If the heater is equippe                         | d with a sup  | plementary     | heater: no                          |                                                                          |              |             |          |
| Driver of compressor: e                          | electric moto | r              |                                     |                                                                          |              |             |          |
| Parameters shall be de optional.                 | clared for th | ie average h   | eating seaso                        | n, parameters for the warmer and                                         | l colder hea | ating seaso | ons are  |
| Item                                             | Symbol        | Value          | Unit                                | Item                                                                     | Symbol       | Value       | Unit     |
| Rated heating capacity                           | Prated,h      | 45.00          | kW                                  | Seasonal space heating<br>energy efficiency                              | <b>η</b> s,h | 167.8       | %        |
| Declared heating<br>teperature 20°C              |               |                |                                     | Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor ter |              | part load a |          |
| Tj=-7°C                                          | Pdh           | 21.89          | kW                                  | Tj=-7°C                                                                  | COPd         | 2.47        |          |
| Tj=+2°C                                          | Pdh           | 13.33          | kW                                  | Tj=+2°C                                                                  | COPd         | 4.00        |          |
| Tj=+7°C                                          | Pdh           | 8.57           | kW                                  | Tj=+7°C                                                                  | COPd         | 6.36        |          |
| Tj=+12°C                                         | Pdh           | 8.01           | kW                                  | Tj=+12°C                                                                 | COPd         | 8.18        |          |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh           | 24.75          | kW                                  | T <sub>biv</sub> =bivalent temperature                                   | COPd         | 2.06        |          |
| To∟=operation<br>temperature                     | Pdh           | 24.75          | kW                                  | ToL =operation temperature                                               | COPd         | 2.06        |          |
| Bivalent temperature                             | Tbiv          | -10            | °C                                  |                                                                          |              |             |          |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh           | 0.25           |                                     |                                                                          |              |             |          |
| Power consumption in                             | modes othe    | r than "active | e mode"                             | Suppleme                                                                 | entary heate | ər          |          |
| Off mode                                         | Poff          | 0.005          | kW                                  | Back-up heating capacity(*)                                              | elbu         | 0           | kW       |
| Thermosat-off mode                               | Рто           | 0.005          | kW                                  | Type of energy input                                                     |              |             | •        |
| Crankcase heater mode                            | Рск           | 0.005          | kW                                  | Standby mode                                                             | Рѕв          | 0.005       | kW       |
|                                                  |               | I              | Othe                                | er items                                                                 |              | L           |          |
| Capacity control                                 |               | variable       |                                     | For air-to-air heat pump: air flow rate, outdoor measured                |              | 15600       | m³/h     |
| Sound power<br>level,outdoor                     | Lwa           | 86             | dB                                  |                                                                          |              |             |          |
| GWP of the refrigerant                           |               | 2088           | kg CO <sub>2 eq</sub><br>(100years) |                                                                          |              |             |          |
| Contact details                                  |               |                |                                     |                                                                          |              |             |          |
| (*)                                              |               |                |                                     |                                                                          |              |             |          |
| (**)If Cdh is not determin                       | ned by meas   | surement, th   | en the defaul                       | t degradation coefficient of heat p                                      | oumps shall  | be 0.25.    |          |
| Where information rela                           | tes to multi- | split heat pu  | mps. the test                       | result and performance data may                                          | / be obtaine | ed on the b | basis of |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | s 1   | for air-to-air cond                                                    | itione | rs    |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|--------|-------|------|
| Model(s): MV8i-500WV<br>Test matching indoor u        | (             | /             | H45Q4N18(Q                          | )+6   | 3×MIH71Q4N18(Q)                                                        |        |       |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |       |                                                                        |        |       |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | air                                 |       |                                                                        |        |       |      |
| Type: compressor drive                                | en            |               |                                     |       |                                                                        |        |       |      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |        |       |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 50.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | Ŋs,c   | 278.2 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc           | 50.00         | kW                                  |       | Tj=+35°C                                                               | EERd   | 2.76  |      |
| Tj=+30°C                                              | Pdc           | 36.84         | kW                                  |       | Tj=+30°C                                                               | EERd   | 4.62  |      |
| Tj=+25°C                                              | Pdc           | 23.68         | kW                                  |       | Tj=+25°C                                                               | EERd   | 8.08  |      |
| Tj=+20°C                                              | Pdc           | 10.81         | kW                                  |       | Tj=+20°C                                                               | EERd   | 16.16 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |        |       |      |
|                                                       | I             | Power consi   | umption in mo                       | des   | s other than "active mode"                                             |        |       |      |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |               | •             | Othe                                | er it | ems                                                                    |        |       |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 22000 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 88            | dB                                  |       |                                                                        |        |       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |        |       |      |
| Contact details                                       |               |               |                                     |       | redation coefficient of boot n                                         |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-500WV2RN1E(ECO)

Test matching indoor units form, cassette:2×MIH45Q4N18(Q)+6×MIH71Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Symbol     | Value                                                                                                                         | Unit                                                                                                                                                                                                                                                                                                                     | Item                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Symbol                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Value                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Unit                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
|------------|-------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|--|
| Prated,h   | 50.00                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Seasonal space heating<br>energy efficiency                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | <b>η</b> s,h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | 167.0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | %                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |  |  |
|            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                          | efficiency/auxiliary energy                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | Declared coefficient of performance or gas utilisa<br>efficiency/auxiliary energy factor for part load at gi<br>outdoor temperatures Tj                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Pdh        | 24.33                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Tj=-7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Pdh        | 14.81                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Tj=+2°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 3.89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Pdh        | 9.52                                                                                                                          | kW                                                                                                                                                                                                                                                                                                                       | Tj=+7°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 6.58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Pdh        | 6.27                                                                                                                          | kW                                                                                                                                                                                                                                                                                                                       | Tj=+12°C                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 7.30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Pdh        | 27.50                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | T <sub>biv</sub> =bivalent temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Pdh        | 27.50                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | ToL =operation temperature                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | COPd                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 2.13                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Tbiv       | -10                                                                                                                           | °C                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Cdh        | 0.25                                                                                                                          |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| nodes othe | than "active                                                                                                                  | e mode"                                                                                                                                                                                                                                                                                                                  | Suppleme                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ntary heate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | er                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Poff       | 0.005                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Back-up heating capacity(*)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              | elbu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          | 0                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
| Рто        | 0.005                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Type of energy input                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| Рск        | 0.005                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                       | Standby mode                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | Psb                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | 0.005                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | kW                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |  |  |
|            |                                                                                                                               | Other                                                                                                                                                                                                                                                                                                                    | items                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|            | variable                                                                                                                      |                                                                                                                                                                                                                                                                                                                          | For air-to-air heat pump: air flow rate, outdoor measured                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               | 22000                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | m³/h                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |  |  |
| Lwa        | 88                                                                                                                            | dB                                                                                                                                                                                                                                                                                                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|            | 2088                                                                                                                          | kg CO <sub>2 eq</sub><br>(100years)                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|            |                                                                                                                               |                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
| ed by meas | urement, th                                                                                                                   | en the default                                                                                                                                                                                                                                                                                                           | degradation coefficient of heat p                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | umps shall                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | be 0.25.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |  |  |
|            | Prated,h<br>capacity fo<br>and outdoor<br>Pdh<br>Pdh<br>Pdh<br>Pdh<br>Pdh<br>Tbiv<br>Cdh<br>modes other<br>POFF<br>PTO<br>PCK | Prated,h   50.00     capacity for part load a     and outdoor temperatu     Pdh   24.33     Pdh   14.81     Pdh   9.52     Pdh   6.27     Pdh   27.50     Pdh   27.50     Pdh   27.50     Pdh   27.50     Cdh   0.25     modes other than "active     POFF   0.005     Рто   0.005     Рск   0.005     Рск   88     2088 | Prated,h       50.00       KW         capacity for part load at indoor<br>and outdoor temperatures Tj       kW         Pdh       24.33       kW         Pdh       24.33       kW         Pdh       14.81       kW         Pdh       9.52       kW         Pdh       6.27       kW         Pdh       27.50       kW         Pdh       0.25          Cdh       0.25          Modes other than "active mode"       POFF       0.005         PTO       0.005       kW       POFF         PCK       0.005       kW       POT         Variable       2088       dB       A | Prated,h   50.00   kW   Seasonal space heating<br>energy efficiency     capacity for part load at indoor<br>and outdoor temperatures Tj   Declared coefficient of pe<br>efficiency/auxiliary energy<br>outdoor tem     Pdh   24.33   kW   Tj=-7°C     Pdh   14.81   kW   Tj=+2°C     Pdh   9.52   kW   Tj=+7°C     Pdh   6.27   kW   Tj=+12°C     Pdh   6.27   kW   Tbiv =bivalent temperature     Pdh   27.50   kW   ToL =operation temperature     Pdh   27.50   kW   ToL =operation temperature     Tbiv   -10   °C   ************************************ | Prated,h   50.00   kW   Seasonal space heating<br>energy efficiency   ns.h     capacity for part load at indoor<br>and outdoor temperatures Tj   Declared coefficient of performance<br>efficiency/auxiliary energy factor for p<br>outdoor temperatures     Pdh   24.33   kW   Tj=-7°C   COPd     Pdh   14.81   kW   Tj=+2°C   COPd     Pdh   9.52   kW   Tj=+12°C   COPd     Pdh   6.27   kW   Tj=+12°C   COPd     Pdh   27.50   kW   Tj=+12°C   COPd     Pdh   27.50   kW   ToL =operation temperature   COPd     Pdh   27.50   kW   ToL =operation temperature   COPd     Tbiv   -10   °C        Cdh   0.25         modes other than "active mode"   Supplementary heate   Supplementary heate     POFF   0.005   kW   Standby mode   PsB     Other items     Cuther items     All degrees     All degrees     POFF   0.005   kW   Standby mode   PsB     Other items     Cup all degrees     All degrees | Prated,h   50.00   kW   Seasonal space heating<br>energy efficiency   n,h   167.0     capacity for part load at indoor<br>and outdoor temperatures Tj   Declared coefficient of performance or gas utili<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj   Declared coefficient of performance or gas utili<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj     Pdh   24.33   kW   Tj=-7°C   COPd   2.55     Pdh   14.81   kW   Tj=+2°C   COPd   3.89     Pdh   9.52   kW   Tj=+7°C   COPd   6.58     Pdh   6.27   kW   Tj=+12°C   COPd   7.30     Pdh   27.50   kW   ToL =operation temperature   COPd   2.13     Pdh   27.50   kW   ToL =operation temperature   COPd   2.13     Tbiv   -10   °C        Cdh   0.25         modes other than "active mode"   Supplementary heater       POFF   0.005   kW   Standby mode   Ps8   0.005     Other items    flow rate, outdoor measured    22000 |  |  |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irements                            | for air-to-air cond                                                   | litione | rs    |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-----------------------------------------------------------------------|---------|-------|------|
| Model(s): MV8i-560WV<br>Test matching indoor u        |               |               | IH71Q4N18(Q                         | )                                                                     |         |       |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |                                                                       |         |       |      |
| Indoor side heat excha                                | nger of air c | onditioner: a | air                                 |                                                                       |         |       |      |
| Type: compressor drive                                | en            |               |                                     |                                                                       |         |       |      |
| Driver of compressor: e                               | electric moto | or            |                                     |                                                                       |         |       |      |
| Item                                                  | Symbol        | Value         | Unit                                | Item                                                                  | Symbol  | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 56.00         | kW                                  | Seasonal space cooling<br>energy efficiency                           | Ŋs,c    | 262.2 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     | Declared energy efficiency r<br>/auxiliary energy factor fo<br>temper |         |       |      |
| Tj=+35°C                                              | Pdc           | 56.00         | kW                                  | Tj=+35°C                                                              | EERd    | 2.54  |      |
| Tj=+30°C                                              | Pdc           | 41.26         | kW                                  | Tj=+30°C                                                              | EERd    | 4.37  |      |
| Tj=+25°C                                              | Pdc           | 26.53         | kW                                  | Tj=+25°C                                                              | EERd    | 7.60  |      |
| Tj=+20°C                                              | Pdc           | 11.79         | kW                                  | Tj=+20°C                                                              | EERd    | 15.60 |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |                                                                       |         |       |      |
|                                                       |               | Power consu   | umption in mod                      | les other than "active mode"                                          |         |       |      |
| Off mode                                              | Poff          | 0.005         | kW                                  | Crankcase heater mode                                                 | Рск     | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  | Standby mode                                                          | Psb     | 0.005 | kW   |
|                                                       |               |               | Other                               | items                                                                 | •       |       |      |
| Capacity control                                      |               | variable      |                                     | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured |         | 22000 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 89            | dB                                  |                                                                       |         |       |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |                                                                       |         |       |      |
| Contact details                                       |               |               |                                     |                                                                       |         |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

|                                                  |               | e e se eliti |                                     | ,      |                                                                           |              |              |         |
|--------------------------------------------------|---------------|--------------|-------------------------------------|--------|---------------------------------------------------------------------------|--------------|--------------|---------|
| Outdoor side heat exch                           | 0             |              |                                     |        |                                                                           |              |              |         |
| Indoor side heat exchar                          | -             |              |                                     |        |                                                                           |              |              |         |
| If the heater is equipped                        |               |              | heater: no                          |        |                                                                           |              |              |         |
| Driver of compressor: e                          |               |              |                                     |        |                                                                           |              |              |         |
| Parameters shall be de<br>optional.              | clared for th | e average h  | eating seasor                       | n, pa  | arameters for the warmer and                                              | colder hea   | ating seaso  | ons are |
| Item                                             | Symbol        | Value        | Unit                                |        | Item                                                                      | Symbol       | Value        | Unit    |
| Rated heating capacity                           | Prated,h      | 56.00        | kW                                  |        | Seasonal space heating<br>energy efficiency                               | <b>η</b> s,h | 165.0        | %       |
| Declared heating<br>teperature 20°C              |               |              |                                     |        | Declared coefficient of per<br>efficiency/auxiliary energy<br>outdoor ten | factor for p | part load at |         |
| Tj=-7°C                                          | Pdh           | 27.42        | kW                                  |        | Tj=-7°C                                                                   | COPd         | 2.64         |         |
| Tj=+2°C                                          | Pdh           | 16.69        | kW                                  |        | Tj=+2°C                                                                   | COPd         | 3.79         |         |
| Tj=+7°C                                          | Pdh           | 10.73        | kW                                  |        | Tj=+7°C                                                                   | COPd         | 6.41         |         |
| Tj=+12°C                                         | Pdh           | 5.68         | kW                                  |        | Tj=+12°C                                                                  | COPd         | 7.09         |         |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh           | 31.00        | kW                                  |        | T <sub>biv</sub> =bivalent temperature                                    | COPd         | 2.13         |         |
| To∟=operation<br>temperature                     | Pdh           | 31.00        | kW                                  |        | ToL =operation temperature                                                | COPd         | 2.13         |         |
| Bivalent temperature                             | Tbiv          | -10          | °C                                  |        |                                                                           |              |              |         |
|                                                  |               |              |                                     |        |                                                                           |              |              |         |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh           | 0.25         |                                     |        |                                                                           |              |              |         |
| Power consumption in r                           | nodes othe    | than "active | e mode"                             |        | Suppleme                                                                  | ntary heate  | er           |         |
| Off mode                                         | Poff          | 0.005        | kW                                  |        | Back-up heating capacity(*)                                               | elbu         | 0            | kW      |
| Thermosat-off mode                               | Рто           | 0.005        | kW                                  |        | Type of energy input                                                      |              |              |         |
| Crankcase heater mode                            | Рск           | 0.005        | kW                                  |        | Standby mode                                                              | Рsв          | 0.005        | kW      |
|                                                  |               |              | Othe                                | er ite | ems                                                                       |              |              |         |
| Capacity control                                 |               | variable     |                                     |        | For air-to-air heat pump: air flow rate, outdoor measured                 |              | 22000        | m³/h    |
| Sound power<br>level,outdoor                     | Lwa           | 89           | dB                                  |        |                                                                           |              |              |         |
| GWP of the refrigerant                           |               | 2088         | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                           |              |              |         |
| Contact details                                  |               |              |                                     |        |                                                                           |              |              |         |
| *)                                               |               |              |                                     |        |                                                                           |              |              |         |

Cooling mode:

## Information requirements for air-to-air conditioners

Model(s): MV8i-615WV2RN1E(ECO) Test matching indoor units form, cassette:8×MIH80Q4N18(Q) Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air Type: compressor driven Driver of compressor: electric motor Item Symbol Value Unit Item Symbol Value Unit Seasonal space cooling Rated cooling capacity Prated,c 61.50 kW 262.2 % ηs,c energy efficiency Declared energy efficiency ratio or gas utilisation efficiency Declared cooling capacity for part load at given outdoor /auxiliary energy factor for part load at given outdoor temperatures Tj and indoor 27/19°C (dry/wet bulb) temperatures Ti Tj=+35°C Pdc 61.50 kW Tj=+35°C EERd 2.38 ---Ti=+30°C Pdc 45.32 kW Ti=+30°C EERd 4.53 ---Tj=+25°C Pdc 29.13 kW Tj=+25°C EERd 7.54 ---Tj=+20°C Pdc 12.95 kW Tj=+20°C EERd 15.75 ---Degradation coefficient for air 0.25 Cdc --conditioners(\*) Power consumption in modes other than "active mode" Рск Off mode Poff 0.005 kW 0.005 kW Crankcase heater mode Thermosat-off mode Рто 0.005 kW Standby mode Рѕв 0.005 kW Other items For air-to-air air conditioner: Capacity control variable air flow rate, outdoor 21500 m³/h measured Sound power 89 dB Lwa level, outdoor kg CO<sub>2 eq</sub> GWP of the refrigerant 2088 (100years) Contact details (\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

#### Information requirements for heat pumps Model(s): MV8i-615WV2RN1E(ECO) Test matching indoor units form, cassette: 8×MIH80Q4N18(Q) Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Value Unit Item Value Unit Item Symbol Symbol Seasonal space heating Rated heating capacity 61.50 kW 172.6 % Prated,h **η**s,h energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Tj outdoor temperatures Tj Tj=-7°C 29.90 Tj=-7°C COPd 2.66 --- $\mathsf{P}^{\mathsf{dh}}$ kW Tj=+2°C Tj=+2°C Pdh 18.20 kW COPd 4.07 ---Tj=+7°C Tj=+7°C 11.70 kW COPd 6.53 $\mathsf{P}^{\mathsf{dh}}$ ---Tj=+12°C Tj=+12°C $\mathsf{P}^{\mathsf{dh}}$ kW COPd 7.41 6.75 ---Tbiv=bivalent Pdh 33.80 kW Tbiv =bivalent temperature 2.13 COPd temperature TOL=operation Pdh 33.80 kW COPd 2.13 TOL =operation temperature --temperature **Bivalent temperature** Tbiv -10 °C Degradation coefficient for 0.25 Cdh \_\_\_ heat pumps(\*\*) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(\*) Off mode POFF 0.005 kW elbu 0 kW Thermosat-off mode Type of energy input Рто 0.005 kW Crankcase heater mode Standby mode 0.005 kW Psb Рск 0.005 kW Other items For air-to-air heat pump: air Capacity control 21500 m³/h variable flow rate, outdoor measured Sound power Lwa 89 dB level,outdoor kg CO2 eq GWP of the refrigerant 2088 (100years) Contact details (\*) (\*\*)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Cooling mode:

| Info                                                  | ormatio       | on requ       | irements                            | s for air-to-air cond                                                  | litione                                   | rs                        |                      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|------------------------------------------------------------------------|-------------------------------------------|---------------------------|----------------------|
| Model(s): MV8i-670WV<br>Test matching indoor up       |               |               | H80Q4N18(Q)                         | +3×MIH100Q4N18(Q)                                                      |                                           |                           |                      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |                                                                        |                                           |                           |                      |
| Indoor side heat exchange                             | nger of air c | onditioner: a | air                                 |                                                                        |                                           |                           |                      |
| Type: compressor drive                                | en            |               |                                     |                                                                        |                                           |                           |                      |
| Driver of compressor: e                               | electric moto | or            |                                     |                                                                        |                                           |                           |                      |
| Item                                                  | Symbol        | Value         | Unit                                | Item                                                                   | Symbol                                    | Value                     | Unit                 |
| Rated cooling capacity                                | Prated,c      | 67.00         | kW                                  | Seasonal space cooling<br>energy efficiency                            | ηs,c                                      | 242.6                     | %                    |
| Declared cooling ca<br>temperatures Tj an             |               |               |                                     | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper | atio or gas<br>or part load<br>ratures Tj | utilisation<br>at given o | efficiency<br>utdoor |
| Tj=+35°C                                              | Pdc           | 67.00         | kW                                  | Tj=+35°C                                                               | EERd                                      | 2.14                      |                      |
| Tj=+30°C                                              | Pdc           | 49.37         | kW                                  | Tj=+30°C                                                               | EERd                                      | 4.21                      |                      |
| Tj=+25°C                                              | Pdc           | 31.74         | kW                                  | Tj=+25°C                                                               | EERd                                      | 6.98                      |                      |
| Tj=+20°C                                              | Pdc           | 14.11         | kW                                  | Tj=+20°C                                                               | EERd                                      | 14.81                     |                      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |                                                                        |                                           |                           |                      |
|                                                       |               | Power consi   | umption in mod                      | les other than "active mode"                                           |                                           |                           |                      |
| Off mode                                              | Poff          | 0.005         | kW                                  | Crankcase heater mode                                                  | Рск                                       | 0.005                     | kW                   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  | Standby mode                                                           | Рѕв                                       | 0.005                     | kW                   |
|                                                       |               | •             | Other                               | ritems                                                                 |                                           |                           |                      |
| Capacity control                                      |               | variable      |                                     | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |                                           | 21500                     | m³/h                 |
| Sound power<br>level, outdoor                         | Lwa           | 92            | dB                                  |                                                                        |                                           |                           |                      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |                                                                        |                                           |                           |                      |
| Contact details                                       |               | •             | · · · ·                             |                                                                        |                                           |                           |                      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-670WV2RN1E(ECO)

#### Test matching indoor units form, cassette: 5×MIH80Q4N18(Q)+3×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol      | Value          | Unit                                |       | Item                                                                                                                               | Symbol       | Value    | Unit |
|--------------------------------------------------|-------------|----------------|-------------------------------------|-------|------------------------------------------------------------------------------------------------------------------------------------|--------------|----------|------|
| Rated heating capacity                           | Prated,h    | 67.00          | kW                                  |       | Seasonal space heating<br>energy efficiency                                                                                        | <b>η</b> s,h | 169.8    | %    |
| Declared heating<br>teperature 20°C              |             |                |                                     |       | Declared coefficient of performance or gas utili<br>efficiency/auxiliary energy factor for part load at<br>outdoor temperatures Tj |              |          |      |
| Tj=-7°C                                          | Pdh         | 32.60          | kW                                  |       | Tj=-7°C                                                                                                                            | COPd         | 2.56     |      |
| Tj=+2°C                                          | Pdh         | 19.84          | kW                                  |       | Tj=+2°C                                                                                                                            | COPd         | 3.97     |      |
| Tj=+7°C                                          | Pdh         | 12.76          | kW                                  |       | Tj=+7°C                                                                                                                            | COPd         | 6.53     |      |
| Tj=+12°C                                         | Pdh         | 6.45           | kW                                  |       | Tj=+12°C                                                                                                                           | COPd         | 7.73     |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 36.85          | kW                                  |       | T <sub>biv</sub> =bivalent temperature                                                                                             | COPd         | 2.05     |      |
| ToL=operation<br>temperature                     | Pdh         | 36.85          | kW                                  |       | ToL =operation temperature                                                                                                         | COPd         | 2.05     |      |
| Bivalent temperature                             | Tbiv        | -10            | °C                                  |       |                                                                                                                                    |              |          |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25           |                                     |       |                                                                                                                                    |              |          |      |
| Power consumption in r                           | modes othei | r than "active | e mode"                             |       | Suppleme                                                                                                                           | ntary heate  | er       |      |
| Off mode                                         | Poff        | 0.005          | kW                                  |       | Back-up heating capacity(*)                                                                                                        | elbu         | 0        | kW   |
| Thermosat-off mode                               | Рто         | 0.005          | kW                                  |       | Type of energy input                                                                                                               |              |          |      |
| Crankcase heater mode                            | Рск         | 0.005          | kW                                  |       | Standby mode                                                                                                                       | Psb          | 0.005    | kW   |
|                                                  |             |                | Othe                                | er it | ems                                                                                                                                |              |          |      |
| Capacity control                                 |             | variable       |                                     |       | For air-to-air heat pump: air flow rate, outdoor measured                                                                          |              | 21500    | m³/h |
| Sound power<br>level,outdoor                     | Lwa         | 92             | dB                                  |       |                                                                                                                                    |              |          |      |
| GWP of the refrigerant                           |             | 2088           | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                                                                                    |              |          |      |
| Contact details                                  |             |                |                                     |       |                                                                                                                                    |              |          |      |
| (*)                                              |             |                |                                     |       |                                                                                                                                    |              |          |      |
| (**)If Cdh is not determin                       | ed by meas  | surement, th   | en the defaul                       | t de  | gradation coefficient of heat p                                                                                                    | umps shall   | be 0.25. |      |

Cooling mode:

| Information | requirements | for air-to-air | conditioners |
|-------------|--------------|----------------|--------------|
| mormation   | requirements |                | conditioners |

Model(s): MV8i-730WV2RN1E(ECO)

Test matching indoor units form, cassette::2×MIH80Q4N18(Q)+6×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

Type: compressor driven

| Type: compressed ante                                 |               |             |                                     |       |                                                                        |        |       |      |
|-------------------------------------------------------|---------------|-------------|-------------------------------------|-------|------------------------------------------------------------------------|--------|-------|------|
| Driver of compressor: e                               | electric moto | or          |                                     |       |                                                                        |        |       |      |
| Item                                                  | Symbol        | Value       | Unit                                |       | Item                                                                   | Symbol | Value | Unit |
| Rated cooling capacity                                | Prated,c      | 73.00       | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | Ŋs,c   | 224.6 | %    |
| Declared cooling ca<br>temperatures Tj an             |               |             |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |        |       |      |
| Tj=+35°C                                              | Pdc           | 73.00       | kW                                  |       | Tj=+35°C                                                               | EERd   | 2.06  |      |
| Tj=+30°C                                              | Pdc           | 53.79       | kW                                  |       | Tj=+30°C                                                               | EERd   | 3.60  |      |
| Tj=+25°C                                              | Pdc           | 34.58       | kW                                  |       | Tj=+25°C                                                               | EER₫   | 6.84  |      |
| Tj=+20°C                                              | Pdc           | 15.37       | kW                                  |       | Tj=+20°C                                                               | EERd   | 13.74 |      |
|                                                       |               |             |                                     |       |                                                                        |        |       |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25        |                                     |       |                                                                        |        |       |      |
|                                                       |               | Power consi | umption in mo                       | des   | s other than "active mode"                                             |        |       |      |
| Off mode                                              | Poff          | 0.005       | kW                                  |       | Crankcase heater mode                                                  | Рск    | 0.005 | kW   |
| Thermosat-off mode                                    | Рто           | 0.005       | kW                                  |       | Standby mode                                                           | Рѕв    | 0.005 | kW   |
|                                                       |               |             | Othe                                | er it | ems                                                                    |        |       |      |
| Capacity control                                      |               | variable    |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |        | 29000 | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93          | dB                                  |       |                                                                        |        |       |      |
| GWP of the refrigerant                                |               | 2088        | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |        |       |      |
| Contact details                                       |               |             |                                     |       |                                                                        |        |       |      |

(\*)If Cdc is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-730WV2RN1E(ECO)

Test matching indoor units form, cassette:2×MIH80Q4N18(Q)+6×MIH100Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol      | Value          | Unit                                |        | Item                                                                                                                              | Symbol       | Value    | Unit |
|--------------------------------------------------|-------------|----------------|-------------------------------------|--------|-----------------------------------------------------------------------------------------------------------------------------------|--------------|----------|------|
| Rated heating capacity                           | Prated,h    | 73.00          | kW                                  |        | Seasonal space heating<br>energy efficiency                                                                                       | <b>η</b> s,h | 167.8    | %    |
| Declared heating<br>teperature 20°C              |             |                |                                     |        | Declared coefficient of performance or gas utili<br>efficiency/auxiliary energy factor for part load a<br>outdoor temperatures Tj |              |          |      |
| Tj=-7°C                                          | Pdh         | 38.04          | kW                                  |        | Tj=-7°C                                                                                                                           | COPd         | 2.31     |      |
| Tj=+2°C                                          | Pdh         | 23.15          | kW                                  |        | Tj=+2°C                                                                                                                           | COPd         | 3.89     |      |
| Tj=+7°C                                          | Pdh         | 14.88          | kW                                  |        | Tj=+7°C                                                                                                                           | COPd         | 6.99     |      |
| Tj=+12°C                                         | Pdh         | 8.23           | kW                                  |        | Tj=+12°C                                                                                                                          | COPd         | 8.99     |      |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 43.00          | kW                                  |        | Tbiv =bivalent temperature                                                                                                        | COPd         | 1.78     |      |
| To∟=operation<br>temperature                     | Pdh         | 43.00          | kW                                  |        | ToL =operation temperature                                                                                                        | COPd         | 1.78     |      |
| Bivalent temperature                             | Tbiv        | -10            | °C                                  |        |                                                                                                                                   |              |          |      |
|                                                  |             |                | 1                                   |        |                                                                                                                                   |              |          |      |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25           |                                     |        |                                                                                                                                   |              |          |      |
| Power consumption in r                           | modes other | r than "active | e mode"                             |        | Suppleme                                                                                                                          | ntary heate  | er       |      |
| Off mode                                         | Poff        | 0.005          | kW                                  |        | Back-up heating capacity(*)                                                                                                       | elbu         | 0        | kW   |
| Thermosat-off mode                               | Рто         | 0.005          | kW                                  |        | Type of energy input                                                                                                              |              |          |      |
| Crankcase heater mode                            | Рск         | 0.005          | kW                                  |        | Standby mode                                                                                                                      | Psb          | 0.005    | kW   |
|                                                  |             |                | Othe                                | er ite | ems                                                                                                                               |              |          |      |
| Capacity control                                 |             | variable       |                                     |        | For air-to-air heat pump: air flow rate, outdoor measured                                                                         |              | 29000    | m³/h |
| Sound power<br>level,outdoor                     | Lwa         | 93             | dB                                  |        |                                                                                                                                   |              |          |      |
| GWP of the refrigerant                           |             | 2088           | kg CO <sub>2 eq</sub><br>(100years) |        |                                                                                                                                   |              |          |      |
| Contact details                                  |             |                |                                     |        |                                                                                                                                   |              |          |      |
| (*)                                              |             |                |                                     |        |                                                                                                                                   |              |          |      |
| (**)If Cdh is not determin                       | ed by meas  | surement, th   | en the default                      | dec    | gradation coefficient of heat p                                                                                                   | umps shall   | be 0.25. |      |

Cooling mode:

|                                                       |               |               |                                     | _     | 6                                                                      |            |          |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|------------|----------|------|
| Info                                                  | ormatic       | on requ       | irement                             | S     | for air-to-air cond                                                    | litione    | rs       |      |
| Model(s): MV8i-785WV<br>Test matching indoor un       |               |               | H100Q4N18(                          | Q)    |                                                                        |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |       |                                                                        |            |          |      |
| Indoor side heat exchange                             | nger of air c | onditioner: a | air                                 |       |                                                                        |            |          |      |
| Type: compressor drive                                | en            |               |                                     |       |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | or            |                                     |       |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 78.50         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | ηs,c       | 237.8    | %    |
| Declared cooling cap<br>temperatures Tj an            |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 78.50         | kW                                  |       | Tj=+35°C                                                               | EERd       | 2.42     |      |
| Tj=+30°C                                              | Pdc           | 57.84         | kW                                  |       | Tj=+30°C                                                               | EERd       | 3.88     |      |
| Tj=+25°C                                              | Pdc           | 37.18         | kW                                  |       | Tj=+25°C                                                               | EERd       | 7.02     |      |
| Tj=+20°C                                              | Pdc           | 16.53         | kW                                  |       | Tj=+20°C                                                               | EERd       | 13.54    |      |
|                                                       |               |               |                                     |       |                                                                        | 1          |          |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |            |          |      |
|                                                       | I             | Power consi   | umption in mo                       | des   | s other than "active mode"                                             | 1          |          | 1    |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               | 1             | Othe                                | ər it | ems                                                                    | 1          | 1        |      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 28000    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93            | dB                                  |       |                                                                        | •          |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |            |          |      |
| Contact details                                       |               |               |                                     |       |                                                                        |            |          |      |
| (*)If Cdc is not determin                             | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall | be 0.25. |      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-785WV2RN1E(ECO) Test matching indoor units form, cassette: 8×MIH100Q4N18(Q) Outdoor side heat exchanger of air conditioner: air Indoor side heat exchanger of air conditioner: air If the heater is equipped with a supplementary heater: no Driver of compressor: electric motor Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional. Item Symbol Value Unit Item Symbol Value Unit Seasonal space heating Rated heating capacity Prated,h 78.50 kW 168.2 % **η**s,h energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor efficiency/auxiliary energy factor for part load at given teperature 20°C and outdoor temperatures Tj outdoor temperatures Ti Tj=-7°C Pdh 38.04 kW Tj=-7°C COPd 2.38 ---Tj=+2°C Tj=+2°C Pdh 23.15 kW COPd 3.90 ---Tj=+7°C Tj=+7°C 14.88 kW COPd 6.82 Pdh ---Tj=+12°C Pdh kW Tj=+12°C COPd 8.77 8.27 ---Tbiv=bivalent Pdh 43.00 kW Tbiv =bivalent temperature 1.97 COPd --temperature ToL=operation  $\mathsf{P}^{\mathsf{dh}}$ 43.00 kW ToL =operation temperature COPd 1.97 \_\_\_ temperature °C **Bivalent temperature** Tbiv -10 Degradation coefficient for 0.25  $C_{dh}$ heat pumps(\*\*) Power consumption in modes other than "active mode" Supplementary heater Back-up heating capacity(\*) 0.005 kW Off mode POFF kW elbu 0 Type of energy input Thermosat-off mode Рто 0.005 kW Standby mode Psb Crankcase heater mode 0.005 kW 0.005 kW Рск Other items For air-to-air heat pump: air Capacity control variable 28000 m³/h flow rate, outdoor measured Sound power LWA 93 dB level,outdoor kg CO<sub>2</sub> eq GWP of the refrigerant 2088 (100years) Contact details (\*) (\*\*)If Cdh is not determined by measurement, then the default degradation coefficient of heat pumps shall be 0.25.

п

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | S '   | for air-to-air cond                                                    | litione    | rs       |      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|------------|----------|------|
| Model(s): MV8i-850WV<br>Test matching indoor u        |               |               | IH100Q4N18(                         | (Q)   | +2×MIH140Q4N18(Q)                                                      |            |          |      |
| Outdoor side heat exch                                | anger of air  | conditioner   | air                                 |       |                                                                        |            |          |      |
| Indoor side heat exchar                               | nger of air c | onditioner: a | air                                 |       |                                                                        |            |          |      |
| Type: compressor drive                                | n             |               |                                     |       |                                                                        |            |          |      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |            |          |      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol     | Value    | Unit |
| Rated cooling capacity                                | Prated,c      | 85.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | Ŋs,c       | 234.2    | %    |
| Declared cooling cap<br>temperatures Tj an            |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper |            |          |      |
| Tj=+35°C                                              | Pdc           | 85.00         | kW                                  |       | Tj=+35°C                                                               | EERd       | 2.25     |      |
| Tj=+30°C                                              | Pdc           | 62.63         | kW                                  |       | Tj=+30°C                                                               | EER₫       | 3.79     |      |
| Tj=+25°C                                              | Pdc           | 40.26         | kW                                  |       | Tj=+25°C                                                               | EERd       | 7.01     |      |
| Tj=+20°C                                              | Pdc           | 17.89         | kW                                  |       | Tj=+20°C                                                               | EERd       | 13.77    |      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |            |          |      |
|                                                       |               | ower consu    | umption in mo                       | des   | s other than "active mode"                                             |            |          | L    |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск        | 0.005    | kW   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв        | 0.005    | kW   |
|                                                       |               | 1             | Othe                                | er it | ems                                                                    | 1          |          |      |
| Capacity control                                      | variable      |               |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |            | 28000    | m³/h |
| Sound power<br>level, outdoor                         | Lwa           | 93            | dB                                  |       |                                                                        |            |          |      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |            |          |      |
| Contact details<br>(*)If Cdc is not determin          | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall | be 0.25. |      |

Where information relates to multi-split air conditioners, the test result and performance data may be obtained on the basis of performance of the outdoor unit, with a combination of indoor unit(s) recommended by the manufacturer or importer.

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Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-850WV2RN1E(ECO)

Test matching indoor units form, cassette: 6×MIH100Q4N18(Q)+2×MIH140Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| Item                                             | Symbol      | Value        | Unit                                | Item                                                                                                                                           | Symbol       | Value | Unit |  |
|--------------------------------------------------|-------------|--------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------|------|--|
| Rated heating capacity                           | Prated,h    | 85.00        | kW                                  | Seasonal space heating<br>energy efficiency                                                                                                    | <b>η</b> s,h | 165.0 | %    |  |
| Declared heating teperature 20°C                 |             |              |                                     | Declared coefficient of performance or gas utilisation<br>efficiency/auxiliary energy factor for part load at given<br>outdoor temperatures Tj |              |       |      |  |
| Tj=-7°C                                          | Pdh         | 39.81        | kW                                  | Tj=-7°C                                                                                                                                        | COPd         | 2.45  |      |  |
| Tj=+2°C                                          | Pdh         | 24.23        | kW                                  | Tj=+2°C                                                                                                                                        | COPd         | 3.74  |      |  |
| Tj=+7°C                                          | Pdh         | 15.58        | kW                                  | Tj=+7°C                                                                                                                                        | COPd         | 6.77  |      |  |
| Tj=+12°C                                         | Pdh         | 8.32         | kW                                  | Tj=+12°C                                                                                                                                       | COPd         | 8.70  |      |  |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh         | 45.00        | kW                                  | Tbiv =bivalent temperature                                                                                                                     | COPd         | 1.90  |      |  |
| To∟=operation<br>temperature                     | Pdh         | 45.00        | kW                                  | To∟ =operation temperature                                                                                                                     | COPd         | 1.90  |      |  |
| Bivalent temperature                             | Tbiv        | -10          | °C                                  |                                                                                                                                                |              |       |      |  |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh         | 0.25         |                                     |                                                                                                                                                |              |       |      |  |
| Power consumption in n                           | nodes other | than "active | e mode"                             | Suppleme                                                                                                                                       | ntary heate  | er    |      |  |
| Off mode                                         | Poff        | 0.005        | kW                                  | Back-up heating capacity(*)                                                                                                                    | elbu         | 0     | kW   |  |
| Thermosat-off mode                               | Рто         | 0.005        | kW                                  | Type of energy input                                                                                                                           |              |       |      |  |
| Crankcase heater mode                            | Рск         | 0.005        | kW                                  | Standby mode                                                                                                                                   | Psb          | 0.005 | kW   |  |
|                                                  |             |              | Other                               | ritems                                                                                                                                         |              |       |      |  |
| Capacity control                                 | variable    |              |                                     | For air-to-air heat pump: air flow rate, outdoor measured                                                                                      |              | 28000 | m³/h |  |
| Sound power<br>level,outdoor                     | Lwa         | 93           | dB                                  |                                                                                                                                                |              |       |      |  |
| GWP of the refrigerant                           |             | 2088         | kg CO <sub>2 eq</sub><br>(100years) |                                                                                                                                                |              |       |      |  |
| Contact details                                  |             |              |                                     |                                                                                                                                                |              |       |      |  |
| -                                                |             |              |                                     |                                                                                                                                                |              |       |      |  |

Cooling mode:

| Info                                                  | ormatic       | on requ       | irement                             | s i   | for air-to-air cond                                                    | litione                                   | rs                        |                      |
|-------------------------------------------------------|---------------|---------------|-------------------------------------|-------|------------------------------------------------------------------------|-------------------------------------------|---------------------------|----------------------|
| Model(s): MV8i-900WV<br>Test matching indoor u        |               |               | IH100Q4N18                          | (Q)   | +3×MIH140Q4N18(Q)                                                      |                                           |                           |                      |
| Outdoor side heat exch                                | anger of air  | conditioner:  | air                                 |       |                                                                        |                                           |                           |                      |
| Indoor side heat exchar                               | nger of air c | onditioner: a | ir                                  |       |                                                                        |                                           |                           |                      |
| Type: compressor drive                                | en            |               |                                     |       |                                                                        |                                           |                           |                      |
| Driver of compressor: e                               | electric moto | r             |                                     |       |                                                                        |                                           |                           |                      |
| Item                                                  | Symbol        | Value         | Unit                                |       | Item                                                                   | Symbol                                    | Value                     | Unit                 |
| Rated cooling capacity                                | Prated,c      | 90.00         | kW                                  |       | Seasonal space cooling<br>energy efficiency                            | ηs,c                                      | 228.2                     | %                    |
| Declared cooling cap<br>temperatures Tj an            |               |               |                                     |       | Declared energy efficiency ra<br>/auxiliary energy factor fo<br>temper | atio or gas<br>or part load<br>ratures Tj | utilisation<br>at given o | efficiency<br>utdoor |
| Tj=+35°C                                              | Pdc           | 90.00         | kW                                  |       | Tj=+35°C                                                               | EERd                                      | 2.05                      |                      |
| Tj=+30°C                                              | Pdc           | 66.32         | kW                                  |       | Tj=+30°C                                                               | EERd                                      | 3.72                      |                      |
| Tj=+25°C                                              | Pdc           | 42.63         | kW                                  |       | Tj=+25°C                                                               | EERd                                      | 6.98                      |                      |
| Tj=+20°C                                              | Pdc           | 18.95         | kW                                  |       | Tj=+20°C                                                               | EERd                                      | 13.55                     |                      |
| Degradation<br>coefficient for air<br>conditioners(*) | Cdc           | 0.25          |                                     |       |                                                                        |                                           |                           |                      |
|                                                       | I             | Power consu   | imption in mo                       | des   | s other than "active mode"                                             | •                                         |                           | •                    |
| Off mode                                              | Poff          | 0.005         | kW                                  |       | Crankcase heater mode                                                  | Рск                                       | 0.005                     | kW                   |
| Thermosat-off mode                                    | Рто           | 0.005         | kW                                  |       | Standby mode                                                           | Рѕв                                       | 0.005                     | kW                   |
|                                                       |               |               | Othe                                | er it | ems                                                                    | •                                         |                           |                      |
| Capacity control                                      |               | variable      |                                     |       | For air-to-air air conditioner:<br>air flow rate, outdoor<br>measured  |                                           | 28000                     | m³/h                 |
| Sound power<br>level, outdoor                         | Lwa           | 93            | dB                                  |       |                                                                        |                                           |                           |                      |
| GWP of the refrigerant                                |               | 2088          | kg CO <sub>2 eq</sub><br>(100years) |       |                                                                        |                                           |                           |                      |
| Contact details                                       |               |               |                                     |       |                                                                        |                                           |                           |                      |
| (*)If Cdc is not determin                             | ed by meas    | urement, the  | en the default                      | de    | gradation coefficient of heat pu                                       | umps shall                                | be 0.25.                  |                      |

Heating mode:

## Information requirements for heat pumps

Model(s): MV8i-900WV2RN1E(ECO)

Test matching indoor units form, cassette:5×MIH100Q4N18(Q)+3×MIH140Q4N18(Q)

Outdoor side heat exchanger of air conditioner: air

Indoor side heat exchanger of air conditioner: air

If the heater is equipped with a supplementary heater: no

Driver of compressor: electric motor

Parameters shall be declared for the average heating season, parameters for the warmer and colder heating seasons are optional.

| optionian                                        |              |               |                                     |                                                                                                                                                |              |             |         |  |
|--------------------------------------------------|--------------|---------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------|---------|--|
| Item                                             | Symbol       | Value         | Unit                                | Item                                                                                                                                           | Symbol       | Value       | Unit    |  |
| Rated heating capacity                           | Prated,h     | 90.00         | kW                                  | Seasonal space heating<br>energy efficiency                                                                                                    | <b>η</b> s,h | 165.0       | %       |  |
| Declared heating<br>teperature 20°C              |              |               |                                     | Declared coefficient of performance or gas utilisation<br>efficiency/auxiliary energy factor for part load at given<br>outdoor temperatures Tj |              |             |         |  |
| Tj=-7°C                                          | Pdh          | 39.81         | kW                                  | Tj=-7°C                                                                                                                                        | COPd         | 2.41        |         |  |
| Tj=+2°C                                          | Pdh          | 24.23         | kW                                  | Tj=+2°C                                                                                                                                        | COPd         | 3.75        |         |  |
| Tj=+7°C                                          | Pdh          | 15.58         | kW                                  | Tj=+7°C                                                                                                                                        | COPd         | 6.84        |         |  |
| Tj=+12°C                                         | Pdh          | 8.22          | kW                                  | Tj=+12°C                                                                                                                                       | COPd         | 8.79        |         |  |
| T <sub>biv</sub> =bivalent<br>temperature        | Pdh          | 45.00         | kW                                  | T <sub>biv</sub> =bivalent temperature                                                                                                         | COPd         | 1.86        |         |  |
| To∟=operation<br>temperature                     | Pdh          | 45.00         | kW                                  | To∟ =operation temperature                                                                                                                     | COPd         | 1.86        |         |  |
| Bivalent temperature                             | Tbiv         | -10           | °C                                  |                                                                                                                                                |              |             |         |  |
| Degradation<br>coefficient for<br>heat pumps(**) | Cdh          | 0.25          |                                     |                                                                                                                                                |              |             |         |  |
| Power consumption in                             |              |               |                                     |                                                                                                                                                | ntary heate  |             |         |  |
| Off mode                                         | Poff         | 0.005         | kW                                  | Back-up heating capacity(*)                                                                                                                    | elbu         | 0           | kW      |  |
| Thermosat-off mode                               | Рто          | 0.005         | kW                                  | Type of energy input                                                                                                                           |              |             | 1       |  |
| Crankcase heater mode                            | Рск          | 0.005         | kW                                  | Standby mode                                                                                                                                   | Psb          | 0.005       | kW      |  |
|                                                  |              |               | Other                               | items                                                                                                                                          |              |             |         |  |
| Capacity control                                 | variable     |               |                                     | For air-to-air heat pump: air flow rate, outdoor measured                                                                                      |              | 28000       | m³/h    |  |
| Sound power<br>level,outdoor                     | Lwa          | 93            | dB                                  |                                                                                                                                                |              |             |         |  |
| GWP of the refrigerant                           |              | 2088          | kg CO <sub>2 eq</sub><br>(100years) |                                                                                                                                                |              |             |         |  |
| Contact details                                  |              |               |                                     |                                                                                                                                                |              |             |         |  |
| (*)                                              |              |               |                                     |                                                                                                                                                |              |             |         |  |
| (**)If Cdh is not determir                       | ed by meas   | surement, th  | en the default                      | degradation coefficient of heat p                                                                                                              | umps shall   | be 0.25.    |         |  |
| Where information relat                          | es to multi- | solit beat ou | mns the test r                      | esult and performance data may                                                                                                                 | he obtaine   | ed on the h | asis of |  |

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- 1.2023.07.11 升级能效 版本B→C 郑小峰
- 2. 2023. 12. 18 升级能效 版本C→D 郑小峰
- 3. 2024. 02. 23 勘误28HP型号多了i;封面提示语更改 版本D→E 郑小峰

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