

# INFORMATION REQUIREMENTS FOR HEAT PUMPS

## *DC Inverter V5 E Series Outdoor Unit*

Original instructions  
Thank you for purchasing this air conditioner.  
Before using it, please read this manual and keep it for future reference.

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**Caution:** The heating function of an indoor unit is available only when it is connected to a cooling & heating outdoor unit.

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Information requirements for air-to-air conditioners								
Model(s):MV5-E252WV2GN1; Test matching indoor units form 1, Duct: 4×MI2-63T1DN1-E; test matching indoor units form 2, non-duct: 4×MI2-63Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	25.2	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	204.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	25.200	kW		$T_j=+35^\circ\text{C}$	$EER_d$	3.15	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	17.637	kW		$T_j=+30^\circ\text{C}$	$EER_d$	4.18	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	10.919	kW		$T_j=+25^\circ\text{C}$	$EER_d$	6.01	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	5.975	kW		$T_j=+20^\circ\text{C}$	$EER_d$	8.88	--
Degradation co-efficient for air conditioners(*)								
	$C_{dc}$	0.25	--					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.046	kW		Crankcase heater mode	$P_{CK}$	0.046	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.046	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	--	12000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	79	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E252WV2GN1; Test matching indoor units form 1, Duct: 4×M12-63T1DN1-E; test matching indoor units form 2, non-duct: 4×M12-63Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	27	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	17.491	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.32	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	10.817	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.27	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	7.36	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.61	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	5.186	kW		$T_j=+12^\circ\text{C}$	$COP_d$	4.95	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	19.412	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.93	--
$T_{OL}$ =operation temperature	$P_{dh}$	19.412	kW		$T_{OL}$ =operation temperature	$COP_d$	1.93	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	$P_{OFF}$	0.046	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.046	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.046	kW		Standby mode	$P_{SB}$	0.046	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	12000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	79	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								

Information requirements for air-to-air conditioners								
Model(s):MV5-E280WV2GN1; Test matching indoor units form 1, Duct: 4×MI2-71T1DN1-E; test matching indoor units form 2, non-duct: 4×MI2-71Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	28	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	201.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	28.000	kW		$T_j=+35^\circ\text{C}$	$EER_d$	3.00	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	20.254	kW		$T_j=+30^\circ\text{C}$	$EER_d$	3.99	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	12.078	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.81	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	5.975	kW		$T_j=+20^\circ\text{C}$	$EER_d$	8.88	--
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.046	kW		Crankcase heater mode	$P_{CK}$	0.046	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.046	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	12000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	83	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E280WV2GN1; Test matching indoor units form 1, Duct: 4×MI2-71T1DN1-E; test matching indoor units form 2, non-duct: 4×MI2-71Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	31.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$				
$T_j=-7^\circ\text{C}$	$P_{dh}$	17.491	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.32	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	10.817	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.27	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	7.36	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.61	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	5.186	kW		$T_j=+12^\circ\text{C}$	$COP_d$	4.95	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	19.412	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.93	--
$T_{OL}$ =operation temperature	$P_{dh}$	19.412	kW		$T_{OL}$ =operation temperature	$COP_d$	1.93	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"				Supplementary heater				
Off mode	$P_{OFF}$	0.046	kW		Back-up heating capacity(*)	elbu	0	kW
Thermostat-off mode	$P_{TO}$	0.046	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.046	kW		Standby mode	$P_{SB}$	0.046	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	12000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	83	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								

Information requirements for air-to-air conditioners								
Model(s):MV5-E335WV2GN1; Test matching indoor units form 1, Duct: 6×MI2-56T2DN1-E; test matching indoor units form 2, non-duct: 6×MI2-56Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	33.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	189.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	33.500	kW		$T_j=+35^\circ\text{C}$	$EER_d$	3.04	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	24.617	kW		$T_j=+30^\circ\text{C}$	$EER_d$	4.12	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	15.592	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.28	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	7.176	kW		$T_j=+20^\circ\text{C}$	$EER_d$	7.11	--
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.046	kW		Crankcase heater mode	$P_{CK}$	0.046	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.046	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	12000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	82	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E335WV2GN1;								
Test matching indoor units form 1, Duct: 6×M12-56T2DN1-E; test matching indoor units form 2, non-duct: 6×M12-56Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	37.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	17.528	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.31	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	10.736	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.22	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	7.16	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.70	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	5.983	kW		$T_j=+12^\circ\text{C}$	$COP_d$	5.53	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	19.9	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.80	--
$T_{OL}$ =operation temperature	$P_{dh}$	19.9	kW		$T_{OL}$ =operation temperature	$COP_d$	1.80	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	$P_{OFF}$	0.046	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.046	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.046	kW		Standby mode	$P_{SB}$	0.046	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	12000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	82	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								



Information requirements for air-to-air conditioners								
Model(s):MV5-E400WV2GN1; Test matching indoor units form 1, Duct: 6×MI2-67T2DN1-E; test matching indoor units form 2, non-duct:3×MI2-63Q4DN1-G+3×MI2-71Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	40	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	194.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	40.000	kW		$T_j=+35^\circ\text{C}$	$EER_d$	3.10	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	29.248	kW		$T_j=+30^\circ\text{C}$	$EER_d$	4.15	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	18.563	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.58	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	8.696	kW		$T_j=+20^\circ\text{C}$	$EER_d$	7.06	--
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	--					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.05	kW		Crankcase heater mode	$P_{CK}$	0.05	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.05	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	--	14000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E400WV2GN1; Test matching indoor units form 1, Duct: 6×MI2-67T2DN1-E; test matching indoor units form 2, non-duct:3×MI2-63Q4DN1-G+3×MI2-71Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	40	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	135.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	21.507	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.23	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	13.948	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.35	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	8.508	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.59	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	6.022	kW		$T_j=+12^\circ\text{C}$	$COP_d$	5.49	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	24.366	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.86	--
$T_{OL}$ =operation temperature	$P_{dh}$	24.366	kW		$T_{OL}$ =operation temperature	$COP_d$	1.86	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	$P_{OFF}$	0.05	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.05	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.05	kW		Standby mode	$P_{SB}$	0.05	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	14000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								

Information requirements for air-to-air conditioners								
Model(s):MV5-E450WV2GN1; Test matching indoor units form 1, Duct: 6×MI2-76T2DN1-E; test matching indoor units form 2, non-duct: 6×MI2-76Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	45	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	192.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	45.000	kW		$T_j=+35^\circ\text{C}$	$EER_d$	2.80	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	32.521	kW		$T_j=+30^\circ\text{C}$	$EER_d$	4.10	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	20.844	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.54	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	9.484	kW		$T_j=+20^\circ\text{C}$	$EER_d$	7.12	--
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	--					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.05	kW		Crankcase heater mode	$P_{CK}$	0.05	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.05	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	--	14000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E450WV2GN1;								
Test matching indoor units form 1, Duct: 6×M12-76T2DN1-E; test matching indoor units form 2, non-duct: 6×M12-76Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	45	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	135.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	21.507	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.23	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	13.948	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.35	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	8.508	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.59	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	6.022	kW		$T_j=+12^\circ\text{C}$	$COP_d$	5.49	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	24.366	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.86	--
$T_{OL}$ =operation temperature	$P_{dh}$	24.366	kW		$T_{OL}$ =operation temperature	$COP_d$	1.86	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	$P_{OFF}$	0.05	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.05	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.05	kW		Standby mode	$P_{SB}$	0.05	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	14000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								

Information requirements for air-to-air conditioners								
Model(s):MV5-E500WV2GN1; Test matching indoor units form 1, Duct: 8×MI2-63T2DN1-E; test matching indoor units form 2, non-duct: 8×MI2-63Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	50	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	195.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	50.000	kW		$T_j=+35^\circ\text{C}$	$EER_d$	2.89	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	37.029	kW		$T_j=+30^\circ\text{C}$	$EER_d$	4.02	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	22.741	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.71	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	10.9	kW		$T_j=+20^\circ\text{C}$	$EER_d$	7.43	--
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.064	kW		Crankcase heater mode	$P_{CK}$	0.064	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.064	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	16000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E500WV2GN1; Test matching indoor units form 1, Duct: 8×MI2-63T2DN1-E; test matching indoor units form 2, non-duct: 8×MI2-63Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	50	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	134.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$				Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$				
$T_j=-7^\circ\text{C}$	$P_{dh}$	25.295	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.24	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	15.911	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.22	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	10.212	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.87	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	7.568	kW		$T_j=+12^\circ\text{C}$	$COP_d$	5.58	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	28.566	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.83	--
$T_{OL}$ =operation temperature	$P_{dh}$	28.566	kW		$T_{OL}$ =operation temperature	$COP_d$	1.83	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"				Supplementary heater				
Off mode	$P_{OFF}$	0.064	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.064	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.064	kW		Standby mode	$P_{SB}$	0.064	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	16000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								

Information requirements for air-to-air conditioners								
Model(s):MV5-E560WV2GN1; Test matching indoor units form 1, Duct: 8×MI2-71T2DN1-E; test matching indoor units form 2, non-duct: 8×MI2-71Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	56	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	194.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	56.000	kW		$T_j=+35^\circ\text{C}$	$EER_d$	2.44	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	37.233	kW		$T_j=+30^\circ\text{C}$	$EER_d$	3.73	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	23.921	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.69	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	11.052	kW		$T_j=+20^\circ\text{C}$	$EER_d$	8.90	--
Degradation co-efficient for air conditioners(*)								
	$C_{dc}$	0.25	--					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.066	kW		Crankcase heater mode	$P_{CK}$	0.066	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.066	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	--		$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E560WV2GN1; Test matching indoor units form 1, Duct: 8×MI2-71T2DN1-E; test matching indoor units form 2, non-duct: 8×MI2-71Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	56	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	29.633	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.07	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	18.326	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.24	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	11.604	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.88	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	7.832	kW		$T_j=+12^\circ\text{C}$	$COP_d$	5.37	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	32.711	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.87	--
$T_{OL}$ =operation temperature	$P_{dh}$	32.711	kW		$T_{OL}$ =operation temperature	$COP_d$	1.87	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	$P_{OFF}$	0.066	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.066	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.066	kW		Standby mode	$P_{SB}$	0.066	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	16000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								



Information requirements for air-to-air conditioners								
Model(s):MV5-E615WV2GN1; Test matching indoor units form 1, Duct: 8×MI2-76T2DN1-E; test matching indoor units form 2, non-duct: 8×MI2-76Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Type:compressor driven								
If applicable:driver of compressor:electric motor								
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	61.5	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	188.0	%
Declared cooling capacity for part load at given outdoor temperatures $T_j$ and indoor 27/19°C (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=+35^\circ\text{C}$	$P_{dc}$	61.500	kW		$T_j=+35^\circ\text{C}$	$EER_d$	2.34	--
$T_j=+30^\circ\text{C}$	$P_{dc}$	40.813	kW		$T_j=+30^\circ\text{C}$	$EER_d$	3.63	--
$T_j=+25^\circ\text{C}$	$P_{dc}$	26.385	kW		$T_j=+25^\circ\text{C}$	$EER_d$	5.49	--
$T_j=+20^\circ\text{C}$	$P_{dc}$	11.752	kW		$T_j=+20^\circ\text{C}$	$EER_d$	8.35	--
Degradation co-efficient for air conditioners(*)	$C_{dc}$	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	$P_{OFF}$	0.066	kW		Crankcase heater mode	$P_{CK}$	0.066	kW
Thermosat-off mode	$P_{TO}$	0	kW		Standby mode	$P_{SB}$	0.066	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	16000	$\text{m}^3/\text{h}$
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)If $C_{dc}$ 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								

Information requirements for heat pumps								
Model(s):MV5-E615WV2GN1; Test matching indoor units form 1, Duct: 8×MI2-76T2DN1-E; test matching indoor units form 2, non-duct: 8×MI2-76Q4DN1-G;								
Outdoor side heat exchanger of air conditioner:air								
Indoor side heat exchanger of air conditioner:air								
Indication if the heater is equipped with a supplementary heater:no								
If applicable: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	$P_{rated,h}$	61.5	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	133.0	%
Declared heating capacity for part load at indoor temperature 20°C and outdoor temperatures $T_j$					Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures $T_j$			
$T_j=-7^\circ\text{C}$	$P_{dh}$	29.633	kW		$T_j=-7^\circ\text{C}$	$COP_d$	2.07	--
$T_j=+2^\circ\text{C}$	$P_{dh}$	18.326	kW		$T_j=+2^\circ\text{C}$	$COP_d$	3.24	--
$T_j=+7^\circ\text{C}$	$P_{dh}$	11.604	kW		$T_j=+7^\circ\text{C}$	$COP_d$	4.88	--
$T_j=+12^\circ\text{C}$	$P_{dh}$	7.832	kW		$T_j=+12^\circ\text{C}$	$COP_d$	5.37	--
$T_{biv}$ =bivalent temperature	$P_{dh}$	32.711	kW		$T_{biv}$ =bivalent temperature	$COP_d$	1.87	--
$T_{OL}$ =operation temperature	$P_{dh}$	32.711	kW		$T_{OL}$ =operation temperature	$COP_d$	1.87	--
Bivalent temperature	$T_{biv}$	-10	°C					
Degradation co-efficient for heat pumps(**)	$C_{dh}$	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	$P_{OFF}$	0.066	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	$P_{TO}$	0.066	kW		Type of energy input			
Crankcase heater mode	$P_{CK}$	0.066	kW		Standby mode	$P_{SB}$	0.066	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	16000	m <sup>3</sup> /h
Sound power level,outdoor	$L_{WA}$	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2</sub> eq(100years)					
Contact details								
(*)								
(**)If $C_{dh}$ is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25								
Where information relates to multi-split heat pumps,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								



16127000A10869 V1.5

材质：双胶纸黑白印  
规格：A4  
克重：100g

此页不做印刷，仅做变更说明：

V1.0改V1.1：增加制冷0.25；

V1.1改V1.2：35度的制冷量与铭牌标称保持一致；

V1.2改V1.3：表2的制热量28改27；

V1.3改V1.4：GWP的值改为2088；

V1.4改V1.5：更改20HP,22HP制冷参数；



















