Information requirements for air-to-air conditioners

Model(s):MV6-i500WV2GN1-E; Test matching indoor units form, Duct: 4×MI-56T1+4×MI-71T1;

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

LetterLetterLetterLetterLetterLetterLetterDeclared 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/auxiliar energy factor for part load at given outdoor temperatures T_j T_j =+35°C P_{dc} 50kW T_j =+35°CEERd2.55 T_j =+30°C P_{dc} 36.091kW T_j =+30°CEERd3.86 T_j =+25°C P_{dc} 22.777kW T_j =+25°CEERd5.89 T_j =+20°C P_{dc} 10.928kW T_j =+20°CEERd8.50 T_j =+20°C P_{dc} 0.25Image: Construction of the second	If applicable:driver of cor	npressor:el	ectric motor						
Varied cooling capacityPrated.c50KWenergy efficiencyTis.c197.4%Declared cooling capacity for part load at given outdoor temperatures Tj and indoor 27/19°C (dry/wet bulb)Declared energy efficiency ratio or gas utilisation efficiency/auxiliar energy factor for part load at given outdoor temperatures TjTj=+35°CPdc50KWTj=+35°CEERd2.55Tj=+30°CPdc36.091KWTj=+30°CEERd3.86Tj=+25°CPdc22.777KWTj=+25°CEERd5.89Tj=+20°CPdc10.928KWTj=+20°CEERd8.50Degradation co-efficient or air conditioners(*)0.25Power consumption in modes other than "active mode"Other itemsCapacity controlVariableFor air-to-air air conditioner:air flow rate,outdoor measured13000m³/hSound power evel,outdoorLwA88dB13000m³/hGance terring and be evel,outdoorContact details	Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Tj and indoor 27/19°C (dry/wet bulb)energy factor for part load at given outdoor temperatures TjTj=+35°CPdc50KWTj=+35°CEERd2.55Tj=+30°CPdc36.091KWTj=+30°CEERd3.86Tj=+25°CPdc22.777KWTj=+25°CEERd5.89Tj=+20°CPdc10.928KWTj=+20°CEERd8.50Degradation co-efficient or air conditioners(*)Cdc0.25Image: Standby modePSB0.064KWOver consumption in modes other than "active mode"Other itemsOther itemsCapacity controlVariableFor air-to-air air conditioner.air flow rate, outdoor measured flow rate, outdoor measured flow rate, outdoor measured flow rate, outdoor resured flow rate, outdoor measured flow rate, outdoor resured flow rate, outdoor resured flow rate, outdoor resured flow rate, outdoor measured flow rate, outdoo	Rated cooling capacity	P _{rated,c}	50	kW			η _{s,c}	197.4	%
Tj=+30°C Pdc 36.091 KW Tj=+30°C EERd 3.86 Tj=+25°C Pdc 22.777 KW Tj=+25°C EERd 5.89 Tj=+20°C Pdc 10.928 KW Tj=+20°C EERd 8.50 Degradation co-efficient or air conditioners(*) Cdc 0.25 Image: Consumption in modes other than "active mode" Image: Consumption in modes other than "active mode" Image: Consumption in modes other than "active mode" 0.064 KW Degradation co-efficient or air conditioners(*) Cdc 0.025 Image: Consumption in modes other than "active mode" Image: Consumption in mode other than "active mode" <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
T I	Tj =+35 ℃	P _{dc}	50	kW		Tj=+35℃	EERd	2.55	
$\begin{tabular}{ c c c c c c } \hline I & I & I & I & I & I & I & I & I & I$	Tj =+30 ℃	P _{dc}	36.091	kW		Tj =+30 ℃	EER _d	3.86	
Comparison	Tj =+25 ℃	P _{dc}	22.777	kW		Tj =+25 ℃	EER _d	5.89	
Tor air conditioners(*) Cdc 0.25 - - Image: Construct of the refrigerant Cdc 0.25 - - Image: Construct of the refrigerant Cdc 0.25 - - Image: Construct of the refrigerant Cdc 0.25 - - Image: Construct of the refrigerant Power consumption in modes other than "active mode" Power consumption in modes other than "active mode" Power consumption in modes other than "active mode" Crankcase heater mode Pck 0.064 kW Diff mode PTO 0 kW Crankcase heater mode Pck 0.064 kW Thermosat-off mode PTO 0 kW Standby mode PSB 0.064 kW Other items Capacity control variable For air-to-air air conditioner:air flow rate,outdoor measured - 13000 m³/h Sound power LwA 88 dB - - 13000 -	Tj =+20 ℃	P _{dc}	10.928	kW		Tj =+20 ℃	EERd	8.50	
Tor air conditioners(*) Cdc 0.25 - - Image: Construct of the refrigerant Cdc 0.25 - - Image: Construct of the refrigerant Cdc 0.25 - - Image: Construct of the refrigerant Cdc 0.25 - - Image: Construct of the refrigerant Power consumption in modes other than "active mode" Power consumption in modes other than "active mode" Power consumption in modes other than "active mode" Crankcase heater mode Pck 0.064 kW Diff mode PTO 0 kW Crankcase heater mode Pck 0.064 kW Thermosat-off mode PTO 0 kW Standby mode PSB 0.064 kW Other items Capacity control variable For air-to-air air conditioner:air flow rate,outdoor measured - 13000 m³/h Sound power LwA 88 dB - - 13000 -									
Dff mode P_{OFF} 0.064kWCrankcase heater mode P_{CK} 0.064kWThermosat-off mode P_{TO} 0kWStandby mode P_{SB} 0.064kWOther itemsCapacity control $Variable$ For air-to-air air conditioner:air flow rate,outdoor measured $-$ 13000 m^3/h Sound power evel,outdoor L_{WA} 88dBImage: Colspan="6">Image: Colspan="6">Contact detailsContact details	Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	_					
InitialProduct<			F	Power consumption in	modes of	ther than "active mode"			
Capacity control variable For air-to-air air conditioner:air flow rate,outdoor measured – 13000 m³/h Sound power evel,outdoor L _{WA} 88 dB – 13000 m³/h GWP of the refrigerant 2088 kg CO _{2 eq} (100years) – 1 – 1	Off mode	P _{OFF}	0.064	kW		Crankcase heater mode	P _{CK}	0.064	kW
Capacity control variable For air-to-air air conditioner:air flow rate,outdoor measured – 13000 m³/h Sound power evel,outdoor L _{WA} 88 dB Image: constant details Image:	Thermosat-off mode	P _{TO}	0	kW		Standby mode	P _{SB}	0.064	kW
Capacity control variable flow rate,outdoor measured – 13000 m³/h Sound power evel,outdoor L _{WA} 88 dB m³/h GWP of the refrigerant 2088 kg CO _{2 eq} (100years)				C	Other item	IS			
evel,outdoor LWA 88 UB GWP of the refrigerant 2088 kg CO _{2 eq} (100years) Image: Contact details	Capacity control	variable					_	13000	m³/h
Contact details	Sound power level,outdoor	L _{WA}	88	dB					
	GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
*)If C _{dc} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25	Contact details	1		1		1		1	
	(*)If C _{dc} is not determined	d by measu	rement then	the default degradation	n coeffici	ent 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):MV6-i500WV2GN1-E; Test matching indoor units form, Duct: 4×MI-56T1+4×MI-71T1;

Outdoor side heat exchanger of air conditioner:air

Indoor side heat exchanger of air conditioner:air

Idication 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 seasoms are optional Unit Item Symbol Value Unit Item Symbol Value Seasonal space heating P_{rated,h} 50 kW % Rated heating capacity η_{s,h} 134.2 energy efficiency Declared coefficient of performance or gas utilisation Declared heating capacity for part load at indoor teperature 20°C and efficiency/auxiliary energy factor for part load at given outdoor outdoor temperatures T_j

					temperatures T _j				
T _j =-7℃	P _{dh}	27.878	kW		Tj=−7°C	COPd	2.46		
Tj=+2℃	P _{dh}	18.272	kW		Tj=+2°C	COPd	3.18		
T _j =+7°C	P _{dh}	11.923	kW		T _j =+7°C	COP _d	4.64		
T _j =+12°C	P _{dh}	9.535	kW		T _j =+12℃	COPd	5.43		
T _{biv} =bivalent temperature	P _{dh}	27.878	kW		T _{biv} =bivalent temperature	COP _d	2.46		
T _{oL} =operation temperature	P _{dh}	31.575	kW		T _{OL} =operation temperature	COPd	1.95		
Bivalent temperature	T _{biv}	-7	°						
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_						
Power consumption in mo	odes other	than "active n	node"		Supple	ementary 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}	0.124	kW		Standby mode	P _{SB}	0.064	kW	
			C	Other item	5				
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	_	13000	m³/h	
Sound power level,outdoor	L _{WA}	88	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details									
(*)	<u> </u>								

(**)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