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.

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

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
ILEIII	Symbol	value	Unit			Symbol	value	Unit
Rated cooling capacity	P _{rated,c}	25.2	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	204.0	%
Declared cooling capaci T _j and in		oad at given C(dry/wet b			Declared energy efficiency rai energy factor for part load			
Tj =+35 ℃	P _{dc}	25.200	kW		Tj=+35℃	EERd	3.15	
Tj =+30 ℃	P _{dc}	17.637	kW		Tj=+30℃	EERd	4.18	
Tj =+25 ℃	P _{dc}	10.919	kW		Tj=+25℃	EERd	6.01	
T _j =+20℃	P _{dc}	5.975	kW		Tj=+20℃	EER _d	8.88	
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	-					
		F	Power consumption in I	modes of	her 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
			0	ther item	IS			
Capacity control		varia	ble		For air-to-air air conditioner:air flow rate,outdoor measured	_	12000	m³/h
Sound power level,outdoor	L _{WA}	79	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details			· · ·		·			
(*)If Cdc is not determined	d by measu	rement then	the default degradatior	n coefficie	ent of heat pumps shall be 0.25			

		mauc	n require	ille	its for near p	umps		
	nits form 1,			hing indo	or units form 2, non-duct: 4×MI	2-63Q4DN1-G;		
Outdoor side heat exchar	nger of air o	conditioner:aii	-					
Indoor side heat exchang	er of air co	nditioner:air						
Idication if the heater is e			entary heater:no					
If applicable:driver of con	•							
Parameters shall be decl	ared for the	average hea	ting season,parameters	s for the v	varmer and colder heating seas	oms are optional		
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	27	kW		Seasonal space heating energy efficiency	η _{s,h}	133.0	%
Declared heating capac or		oad at indoor peratures T _j	teperature 20 $^\circ\!\!\mathbb{C}$ and		Declared coefficient o efficiency/auxiliary energy terr			
T _j =-7℃	P _{dh}	17.491	kW		Tj=-7℃	COPd	2.32	
T _j =+2°C	P _{dh}	10.817	kW		Tj =+2 ℃	COPd	3.27	
T _j =+7℃	P _{dh}	7.36	kW		Tj =+7 ℃	COPd	4.61	
T _j =+12℃	P _{dh}	5.186	kW		Tj=+12℃	COPd	4.95	
T _{biv} =bivalent temperature	P _{dh}	19.412	kW		T _{biv} =bivalent temperature	COPd	1.93	
T _{OL} =operation temperature	P _{dh}	19.412	kW		T _{OL} =operation temperature	COPd	1.93	
Bivalent temperature	T _{biv}	-10	°C					
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_					
Power consumption in me	odes other	than "active n	node"		Supple	ementary 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
			Ot	ther items	3			
Capacity control		varia	ble		For air-to-air heat pump:air flow rate,outdoor measured	_	12000	m³/h
Sound power level,outdoor	L _{WA}	79	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								
(*)								
(**)If C _{dh} is not determine	d by measu	irement then	the default degradation	coefficie	nt of heat pumps shall be 0.25			

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

If applicable:driver of cor	npressor:el	ectric motor						
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	28	kW		Seasonal space cooling energy efficiency	η _{s,c}	201.0	%
Declared cooling capaci T _j and in		oad at given ℃(dry/wet b			Declared energy efficiency ra energy factor for part load			
Tj =+35 ℃	P _{dc}	28.000	kW		Tj=+35℃	EER _d	3.00	
Tj =+30 ℃	P _{dc}	20.254	kW		Tj=+30℃	EER _d	3.99	
T _j =+25℃	P _{dc}	12.078	kW		Tj=+25℃	EER _d	5.81	
Tj =+20° ℃	P _{dc}	5.975	kW		Tj=+20℃	EER _d	8.88	
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	-					
		F	Power consumption in	modes of	ther 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
			C	ther item	IS			
Capacity control		varia	ble		For air-to-air air conditioner:air flow rate,outdoor measured	_	12000	m³/h
Sound power level,outdoor	L _{WA}	83	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details	•						-	
(*)If C _{dc} is not determined	d by measu	rement then	the default degradation	n coeffici	ent of heat pumps shall be 0.25			

	Into	matio	on require	ments for heat p	oumps		
Model(s):MV5-E280WV2 Test matching indoor un		Duct: 4×MI2-	- 71T1DN1-E; test match	- ing indoor units form 2, non-duct: 4×MI:			
Outdoor side heat exchar	nger of air o	conditioner:ai	r				
Indoor side heat exchang	jer of air co	nditioner:air					
Idication if the heater is e	quipped wi	th a supplem	entary heater:no				
If applicable:driver of con							
Parameters shall be decl	ared for the	average hea	ting season,parameters	for the warmer and colder heating seas	oms are optional		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	31.5	kW	Seasonal space heating energy efficiency	η _{s,h}	133.0	%
Declared heating capac		oad at indoor peratures T _j	teperature 20℃ and	Declared coefficient o efficiency/auxiliary energy tem			
T _j =-7℃	P _{dh}	17.491	kW	Tj=-7℃	COPd	2.32	
T _j =+2°C	P _{dh}	10.817	kW	Tj=+2℃	COPd	3.27	
Tj =+7 °C	P _{dh}	7.36	kW	Tj=+7℃	COPd	4.61	
Tj=+12℃	P _{dh}	5.186	kW	T _j =+12°C	COPd	4.95	
T _{biv} =bivalent temperature	P _{dh}	19.412	kW	T _{biv} =bivalent temperature	COPd	1.93	
T _{OL} =operation temperature	P _{dh}	19.412	kW	T _{OL} =operation temperature	COPd	1.93	
Bivalent temperature	T _{biv}	-10	°C				
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_				
Power consumption in me	odes other	than "active r	node"	Supple	ementary 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
			Ot	ther items			
Capacity control		varia	ble	For air-to-air heat pump:air flow rate,outdoor measured	_	12000	m³/h
Sound power level,outdoor	L _{WA}	83	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If C _{dh} is not determine	d by measu	rement then	the default degradation	coefficient of heat pumps shall be 0.25			_

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

f applicable:driver of com	pressor:el	ectric 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 T _j and ind		oad at given C(dry/wet b	•		Declared energy efficiency ra energy factor for part load			
Γ _j =+35℃	P _{dc}	33.500	kW		Tj=+35℃	EERd	3.04	
Γ _j =+30℃	P _{dc}	24.617	kW		Tj=+30℃	EER _d	4.12	
Γ _j =+25℃	P _{dc}	15.592	kW		Tj =+25 ℃	EERd	5.28	
Γ _j =+20℃	P _{dc}	7.176	kW		Tj =+20 ℃	EER _d	7.11	
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	_					
	1	F	Power consumption in	modes of	her 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
			C	Other item	IS			
Capacity control		varia	ble		For air-to-air air conditioner:air flow rate,outdoor measured	_	12000	m³/h
Sound power evel,outdoor	L _{WA}	82	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details	I		·		1		ا ــــــــــــــــــــــــــــــــــــ	
(*)If C _{dc} is not determined	by measu	rement then	the default degradation	n coefficie	ent of heat pumps shall be 0.25			

Model(s):MV5-E335WV2GN1;

Model(s):MV5-E335WV		Duct: 6×MI2	2-56T2DN1-E: test match	ing indoor units form 2, non-duct: 6×M	12-5604DN1-G		
Outdoor side heat exchar							
Indoor side heat exchang	er of air co	nditioner:air					
Idication if the heater is e	quipped wit	th a suppleme	entary heater:no				
If applicable:driver of con							
Parameters shall be decla	ared for the	average hea	ating season,parameters f	or the warmer and colder heating seaso	oms are optional		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	37.5	kW	Seasonal space heating energy efficiency	η _{s,h}	133.0	%
Declared heating capac ou		oad at indoor peratures T _j	teperature 20℃ and	Declared coefficient of efficiency/auxiliary energy t tem			
T _j =-7℃	P _{dh}	17.528	kW	Tj =-7 ℃	COPd	2.31	
Tj=+2℃	P _{dh}	10.736	kW	Tj =+2 ℃	COPd	3.22	
T _j =+7℃	P _{dh}	7.16	kW	Tj =+7 ℃	COPd	4.70	
T _j =+12℃	P _{dh}	5.983	kW	T _j =+12℃	COPd	5.53	
T _{biv} =bivalent temperature	P _{dh}	19.9	kW	T _{biv} =bivalent temperature	COPd	1.80	
T _{oL} =operation temperature	P _{dh}	19.9	kW	T _{OL} =operation temperature	COPd	1.80	
Bivalent temperature	T _{biv}	-10	°C				
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_				
Power consumption in mo	odes other	than "active n	node"	Supple	mentary heater	- 1	
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
			Oth	er items			
Capacity control		varia	ible	For air-to-air heat pump:air flow rate,outdoor measured	_	12000	m³/h
Sound power level,outdoor	L _{WA}	82	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							

 $(^{**})$ If C_{dh} is not determined by measurement then the default degradation coefficient of heat pumps shall be 0.25

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

	d,c 40 art load at given 7/19°C (dry/wet 40.000		Item Seasonal space cooling energy efficiency Declared energy efficiency r energy factor for part los T _j =+35 °C			
Declared cooling capacity for p T_j and indoor 27 T_j =+35°C P_{dc} T_j =+30°C P_{dc}	art load at given 7/19°C (dry/wet	outdoor temperatures bulb) kW	energy efficiency Declared energy efficiency r energy factor for part los	ratio or gas utilisatic ad at given outdoor	on efficiency	/auxiliar
T_j and indoor 27 T_j =+35°C P_{dc} T_j =+30°C P_{dc}	7/19°C (dry/wet	bulb) kW	energy factor for part los	ad at given outdoor		
Tj=+30°C P _{dc}	+0.000		Tj =+35 ℃	EERd		
,	29.248	k\\/		Ĩ	3.10	
Tj=+25℃ P _{da}		ĸvv	Tj =+30 ℃	EER _d	4.15	
	18.563	kW	Tj =+25 ℃	EER _d	5.58	-
T _j =+20℃ P _{dd}	8.696	kW	Tj=+20℃	EERd	7.06	
Degradation co-efficient for air conditioners(*)	0.25	-				
		Power consumption in m	nodes other than "active mode"	•		
Off mode P _{OF}	F 0.05	kW	Crankcase heater mode	P _{CK}	0.05	kW
Thermosat-off mode PTC	0 0	kW	Standby mode	P _{SB}	0.05	kW
		Ot	ther items			
Capacity control	vari	able	For air-to-air air conditioner:ai flow rate,outdoor measured	ir _	14000	m³/h
Sound power level,outdoor	A 88	dB				
GWP of the refrigerant	2088	kg CO _{2 eq} (100years)				I
Contact details		· ·		1		
(*)If Cdc is not determined by me						

Model(s):MV5-E400WV Test matching indoor un	,	Duct: 6×Ml	2-67T2DN1-E; test mate	ching indoor units form 2, non-duct:3×M	II2-63Q4DN1-G+3	×MI2-71Q4	DN1-G;
Outdoor side heat exchar				. .			
Indoor side heat exchang	er of air co	nditioner:air					
Idication if the heater is e			entary heater:no				
If applicable:driver of com							
			ating season,parameters	for the warmer and colder heating seas	oms are optional		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	40	kW	Seasonal space heating energy efficiency	η _{s,h}	135.0	%
Declared heating capaci ou		oad at indoor eratures T _j	teperature 20 $^\circ\!\!\mathbb{C}$ and	Declared coefficient o efficiency/auxiliary energy tem			
Tj =-7 ℃	P _{dh}	21.507	kW	Tj=-7℃	COPd	2.23	
Tj =+2 ℃	P _{dh}	13.948	kW	Tj=+2℃	COPd	3.35	
T _j =+7℃	P _{dh}	8.508	kW	Tj =+7 ℃	COPd	4.59	
Tj =+12 ℃	P _{dh}	6.022	kW	Tj=+12°C	COPd	5.49	
T _{biv} =bivalent temperature	P _{dh}	24.366	kW	T _{biv} =bivalent temperature	COPd	1.86	
T _{OL} =operation temperature	P _{dh}	24.366	kW	T _{OL} =operation temperature	COPd	1.86	
Bivalent temperature	T _{biv}	-10	°C				
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_				
Power consumption in mo	odes other t	han "active r	node"	Supple	ementary 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
			O	ther items			
Capacity control		varia	ble	For air-to-air heat pump:air flow rate,outdoor measured	_	14000	m³/h
Sound power level,outdoor	L _{WA}	88	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details				· ·		'	
(*)							
(**) If C is not determine	d by moos	romont the-	the default degradation	apofficient of heat pumps shall be 0.05			
	u by measu			coefficient of heat pumps shall be 0.25			

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

If applicable:driver of con	npressor:ei	ectric motor	,		11			
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P _{rated,c}	45	kW		Seasonal space cooling energy efficiency	η _{s,c}	192.0	%
Declared cooling capacit T _j and inc		oad at given ℃(dry/wet l			Declared energy efficiency rat energy factor for part load			
Tj =+35 ℃	P _{dc}	45.000	kW		Tj=+35℃	EERd	2.80	
Tj =+30 ℃	P _{dc}	32.521	kW		Tj=+30℃	EER _d	4.10	
Tj =+25 ℃	P _{dc}	20.844	kW		Tj=+25℃	EERd	5.54	
Tj=+20℃	P _{dc}	9.484	kW		Tj=+20℃	EERd	7.12	
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	-					
		F	Power consumption in	modes of	her 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
			C	ther item	IS			
Capacity control		varia	ible		For air-to-air air conditioner:air flow rate,outdoor measured	—	14000	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 Cdc is not determined	l by measu	rement then	the default degradation	n coefficie	ent of heat pumps shall be 0.25			

		mau	Jirrequirei	ients for heat p	umps		
Model(s):MV5-E450WV Test matching indoor ur		Duct: 6×Ml	2-76T2DN1-E; test matchin	ng indoor units form 2, non-duct: 6×M	II2-76Q4DN1-G;		
Outdoor side heat excha							
Indoor side heat exchang	ger of air co	nditioner:air					
Idication if the heater is e	equipped wit	th a supplem	entary heater:no				
If applicable:driver of con	-						
Parameters shall be decl	ared for the	average hea	ating season,parameters for	the warmer and colder heating seaso	oms are optional		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	45	kW	Seasonal space heating energy efficiency	η _{s,h}	135.0	%
Declared heating capac o		oad at indoor peratures T _j	r teperature 20°C and	Declared coefficient of efficiency/auxiliary energy t tem			
Tj =-7 ℃	P _{dh}	21.507	kW	Tj =-7° C	COPd	2.23	
T _j =+2℃	P _{dh}	13.948	kW	Tj=+2℃	COPd	3.35	
T _j =+7℃	P _{dh}	8.508	kW	Tj=+7℃	COPd	4.59	
T _j =+12℃	P _{dh}	6.022	kW	Tj=+12℃	COPd	5.49	
T _{biv} =bivalent temperature	P _{dh}	24.366	kW	T _{biv} =bivalent temperature	COPd	1.86	
T _{OL} =operation temperature	P _{dh}	24.366	kW	T _{OL} =operation temperature	COPd	1.86	
Bivalent temperature	T _{biv}	-10	°C				
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_				
Power consumption in m	odes other	than "active i	node"	Supple	ementary 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	ritems			
Capacity control		varia	able	For air-to-air heat pump:air flow rate,outdoor measured	_	14000	m³/h
Sound power level,outdoor	L _{WA}	88	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details			·				
(*)							
(**)If C _{dh} is not determine	ed by measu	rement then	the default degradation coe	efficient of heat pumps shall be 0.25			

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

	Symbol P _{rated,c}	Value 50	Unit		Item	Symbol	Value	Unit
		50						
Declared cooling capacity for			kW		Seasonal space cooling energy efficiency	η _{s,c}	195.0	%
T _j and indoc		oad at given C(dry/wet b			Declared energy efficiency rat energy factor for part load			
Tj =+35 ℃	P _{dc}	50.000	kW		Tj =+35 ℃	EERd	2.89	
Tj =+30 ℃	P _{dc}	37.029	kW		Tj=+30℃	EER _d	4.02	
T _j =+25℃	P _{dc}	22.741	kW		Tj=+25℃	EERd	5.71	
Tj =+20 ℃	P _{dc}	10.9	kW		Tj=+20℃	EERd	7.43	
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	-					
	•	F	Power consumption in	modes ot	her 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
			C	ther item	S			
Capacity control		varia	ble		For air-to-air air conditioner:air flow rate,outdoor measured	—	16000	m³/h
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details	I		· · · · · ·					
(*)If Cdc is not determined by	y measu	rement then	the default degradation	n coefficie	ent of heat pumps shall be 0.25			

		man	Intequiren	ients for heat p	umps		
Model(s):MV5-E500WV2 Test matching indoor un		Duct: 8×Ml	2-63T2DN1-E; test matchin	ig indoor units form 2, non-duct: 8×MI	2-63Q4DN1-G;		
Outdoor side heat exchar				-			
Indoor side heat exchang	er of air co	nditioner:air					
Idication if the heater is e	quipped wit	th a supplem	entary heater:no				
If applicable:driver of com	npressor:ele	ectric motor					
Parameters shall be decla	ared for the	average hea	ating season,parameters for	the warmer and colder heating seaso	ms are optional		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P _{rated,h}	50	kW	Seasonal space heating energy efficiency	η _{s,h}	134.0	%
Declared heating capaci ou		oad at indoo peratures T _j	teperature 20°C and	Declared coefficient of efficiency/auxiliary energy fa temp			
Tj =-7 ℃	P _{dh}	25.295	kW	Tj=-7℃	COPd	2.24	
Tj =+2 ℃	P _{dh}	15.911	kW	Tj=+2℃	COPd	3.22	
Tj =+7 ℃	P _{dh}	10.212	kW	Tj=+7℃	COPd	4.87	
Tj =+12 ℃	P _{dh}	7.568	kW	Tj=+12℃	COPd	5.58	
T _{biv} =bivalent temperature	P _{dh}	28.566	kW	T _{biv} =bivalent temperature	COPd	1.83	
T _{OL} =operation temperature	P _{dh}	28.566	kW	T _{OL} =operation temperature	COPd	1.83	
Bivalent temperature	T _{biv}	-10	°C				
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_				
Power consumption in mo	odes other f	than "active i	node"	Suppler	mentary 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		varia	able	For air-to-air heat pump:air flow rate,outdoor measured	_	16000	m³/h
Sound power level,outdoor	L _{WA}	88	dB				
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)				
Contact details							
(*)							
(**)If C _{dh} is not determine	d by measu	irement then	the default degradation coe	efficient of heat pumps shall be 0.25			

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

If applicable:driver of cor	npressor:el	ectric motor							
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit	
Rated cooling capacity	P _{rated,c}	56	kW		Seasonal space cooling energy efficiency	η _{s,c}	194.0	%	
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19 $^\circ\!\!\!\!\!^\circ\$ (dry/wet bulb)					Declared energy efficiency ratio or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j				
Tj =+35 ℃	P _{dc}	56.000	kW		Tj=+35℃	EERd	2.44		
Tj =+30 ℃	P _{dc}	37.233	kW		Tj =+30 ℃	EER _d	3.73		
T _j =+25℃	P _{dc}	23.921	kW		Tj =+25 ℃	EER _d	5.69		
T _j =+20℃	P _{dc}	11.052	kW		Tj =+20 ℃	EER _d	8.90		
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	-						
		F	Power consumption in	modes of	ther 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	
			C	ther item	IS				
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—		m³/h	
Sound power level,outdoor	L _{WA}	88	dB						
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)						
Contact details	ıl		·		I				
(*)If Cdc is not determined	d by measu	rement then	the default degradation	n coeffici	ent of heat pumps shall be 0.25				

		man	Shrequirer	nems for heat p	umps			
Model(s):MV5-E560WV Test matching indoor ur	2GN1; nits form 1,	Duct: 8×MI	2-71T2DN1-E; test match	ing indoor units form 2, non-duct: 8×M	l2-71Q4DN1-G;			
Outdoor side heat exchar	nger of air o	conditioner:ai	r					
Indoor side heat exchang								
Idication if the heater is e	quipped wit	th a supplem	entary heater:no					
If applicable:driver of con								
Parameters shall be decla	ared for the	average hea	ating season,parameters fo	or the warmer and colder heating seaso	ms are optional			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heating capacity	P _{rated,h}	56	kW	Seasonal space heating energy efficiency	η _{s,h}	133.0	%	
Declared heating capacity for part load at indoor teperature 20 $^{\circ}\mathrm{C}$ 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				
Tj =-7 ℃	P _{dh}	29.633	kW	Tj=-7℃	COPd	2.07		
Tj =+2 ℃	P _{dh}	18.326	kW	Tj=+2°C	COPd	3.24		
T _j =+7℃	P _{dh}	11.604	kW	Tj=+7°C	COPd	4.88		
T _j =+12℃	P _{dh}	7.832	kW	Tj=+12℃	COPd	5.37		
T _{biv} =bivalent temperature	P _{dh}	32.711	kW	T _{biv} =bivalent temperature	COPd	1.87		
T _{OL} =operation temperature	P _{dh}	32.711	kW	T _{OL} =operation temperature	COPd	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"			node"	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	
			Othe	er items				
Capacity control	variable		able	For air-to-air heat pump:air flow rate,outdoor measured	_	16000	m³/h	
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details				· · ·				
(*)								
(**)) f (is a -t -t -t - m - t	al las c are e e			officient of boot pursue about the C.O.C.				
	u by meast			pefficient of heat pumps shall be 0.25				

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 capacit T _j and inc		ad at given ℃(dry/wet)			Declared energy efficiency rat energy factor for part load			
Tj =+35 ℃	P _{dc}	61.500	kW		Tj=+35℃	EERd	2.34	
Tj =+30 ℃	P _{dc}	40.813	kW		Tj=+30℃	EERd	3.63	
T _j =+25℃	P _{dc}	26.385	kW		Tj=+25℃	EERd	5.49	
T _j =+20℃	P _{dc}	11.752	kW		Tj=+20℃	EERd	8.35	
Degradation co-efficient for air conditioners(*)	C _{dc}	0.25	-					
			Power consumption in r	nodes otl	her 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
			0	ther item	S			
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	_	16000	m³/h
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details			I				I	
(*)If Cdc is not determined	by measu	rement then	the default degradation	n coefficie	ent of heat pumps shall be 0.25			

		matic	<u>, iii ioquiio</u>	ments for heat p	ampo			
Model(s):MV5-E615WV2 Test matching indoor un		Duct: 8×MI2	2-76T2DN1-E; test mate	ching indoor units form 2, non-duct: 8×M	II2-76Q4DN1-G;			
Outdoor side heat exchar								
Indoor side heat exchange								
Idication if the heater is e			entary heater:no					
If applicable:driver of com	·							
	I	-	1	s for the warmer and colder heating seas		1 1		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heating capacity	P _{rated,h}	61.5	kW	Seasonal space heating energy efficiency	η _{s,h}	133.0	%	
Declared heating capaci ou		oad at indoor peratures T _j	∙ teperature 20°C and	Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given outdoor temperatures T _j				
Tj=-7℃	P _{dh}	29.633	kW	Tj=−7°C	COPd	2.07		
Tj=+2℃	P _{dh}	18.326	kW	Tj=+2℃	COPd	3.24		
T _j =+7℃	P _{dh}	11.604	kW	Tj=+7℃	COPd	4.88		
T _j =+12℃	P _{dh}	7.832	kW	T _j =+12°C	COPd	5.37		
T _{biv} =bivalent temperature	P _{dh}	32.711	kW	T _{biv} =bivalent temperature	COPd	1.87		
T _{OL} =operation temperature	P _{dh}	32.711	kW	T _{OL} =operation temperature	COPd	1.87		
Bivalent temperature	T _{biv}	-10	°C					
Degradation co-efficient for heat pumps(**)	C _{dh}	0.25	_					
Power consumption in mo	odes other t	than "active r	node"	Supple	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	Р _{СК}	0.066	kW	Standby mode	P _{SB}	0.066	kW	
			Ot	ther items				
Capacity control	variable			For air-to-air heat pump:air flow rate,outdoor measured	_	16000	m³/h	
Sound power level,outdoor	L _{WA}	88	dB					
GWP of the refrigerant		2088	kg CO _{2 eq} (100years)					
Contact details								
(*)								
(**)If C _{dh} is not determined	d by measu	irement then	the default degradation	coefficient of heat pumps shall be 0.25				

16127000A10869 V1.5

此页不做印刷, 仅做变更说明:

材质:双胶纸黑白印 规格:A4 克重:100g

- 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;