# INFORMATION REQUIREMENTS FOR HEAT PUMPS

All DC Inverter V4+R Outdoor Unit

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

## Information requirements for air-to-air conditioners

Model(s):MV-252(8)WD2RN1T(D);
Test matching indoor units form 1, Duct: 4×MI2-63T1DN1-R; 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

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Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated cooling capacity	P <sub>rated,c</sub>	25.2	kW		Seasonal space cooling energy efficiency	η <sub>s,c</sub>	188.2	%
Declared cooling capaci T <sub>j</sub> and in		oad at given ℃ (dry/wet b			Declared energy efficiency ra energy factor for part load			
T <sub>j</sub> =+35℃	P <sub>dc</sub>	25.2	kW		T <sub>j</sub> =+35℃	EER <sub>d</sub>	2.93	
T <sub>j</sub> =+30°C	P <sub>dc</sub>	17.76	kW		T <sub>j</sub> =+30℃	EER <sub>d</sub>	4.13	
T <sub>j</sub> =+25℃	P <sub>dc</sub>	12.228	kW		T <sub>j</sub> =+25℃	EER <sub>d</sub>	5.83	
T <sub>j</sub> =+20℃	P <sub>dc</sub>	8.577	kW		T <sub>j</sub> =+20℃	EER <sub>d</sub>	7.93	
Degradation co-efficient for air conditioners(*)	C <sub>dc</sub>	0.25	_					
		F	Power consumption in	modes of	ther than "active mode"			
Off mode	P <sub>OFF</sub>	0.061	kW		Crankcase heater mode	P <sub>CK</sub>	0.061	kW
Thermosat-off mode	P <sub>TO</sub>	0	kW		Standby mode	$P_{SB}$	0.061	kW
			C	Other item	ns			
Capacity control		varia	ible		For air-to-air air conditioner:air flow rate,outdoor measured	-	12000	m <sup>3</sup> /h
Sound power level,outdoor	L <sub>WA</sub>	79	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)					
0		•	-	•				

Contact details

(\*)If C<sub>dc</sub> 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):MV-252(8)WD2RN1T(D);

Test matching indoor units form 1, Duct: 4×MI2-63T1DN1-R; 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

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

Parameters shall be decl	ared for the	average hea	iting season,parameters	for the warmer and colder heat	ing seasoms are optional			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	
Rated heating capacity	P <sub>rated,h</sub>	27	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	133.4	%	
Declared heating capac		oad at indoor peratures T <sub>j</sub>	teperature 20℃ and		fficient of performance or g energy factor for part load temperatures T <sub>j</sub>			
T <sub>j</sub> =- <b>7</b> ℃	P <sub>dh</sub>	13.717	kW	T <sub>j</sub> =- <b>7</b> ℃	COP <sub>d</sub>	2.45		
T <sub>j</sub> =+2°C	P <sub>dh</sub>	9.000	kW	T <sub>j</sub> =+2℃	COPd	3.35		
T <sub>j</sub> =+ <b>7</b> °C	P <sub>dh</sub>	6.028	kW	T <sub>j</sub> =+ <b>7</b> ℃	COP <sub>d</sub>	4.31		
T <sub>j</sub> =+12℃	P <sub>dh</sub>	7.317	kW	T <sub>j</sub> =+12℃	COP <sub>d</sub>	5.18		
T <sub>biv</sub> =bivalent temperature	P <sub>dh</sub>	13.717	kW	T <sub>biv</sub> =bivalent tempera	ture COP <sub>d</sub>	2.45		
T <sub>OL</sub> =operation temperature	P <sub>dh</sub>	15.988	kW	T <sub>OL</sub> =operation tempe	rature COP <sub>d</sub>	2.32		
Bivalent temperature	T <sub>biv</sub>	-7	°C					
Degradation co-efficient for heat pumps(**)	C <sub>dh</sub>	0.25	_					
Power consumption in me	odes other	than "active n	node"		Supplementary heater			
Off mode	P <sub>OFF</sub>	0.061	kW	Back-up heating capa	city(*) elbu	0	kW	
Thermosat-off mode	P <sub>TO</sub>	0.061	kW	Type of energy input		•		
Crankcase heater mode	P <sub>CK</sub>	0.125	kW	Standby mode	P <sub>SB</sub>	0.061	kW	
			Ot	ner items				
Capacity control		varia	ible	For air-to-air heat pum flow rate,outdoor meas	· — —	12000	m³/h	
Sound power level,outdoor	L <sub>WA</sub>	79	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (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):MV-280(10)WD2RN1T(D);
Test matching indoor units form 1, Duct: 4×MI2-71T1DN1-R; 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 <sub>rated,c</sub>	28	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	190.6	%
	Declared cooling capacity for part load at given outdoor temperature $T_j$ and indoor 27/19°C (dry/wet bulb)				Declared energy efficiency ratio or gas utilisation efficiency/ energy factor for part load at given outdoor temperature			
T <sub>j</sub> =+35℃	P <sub>dc</sub>	28	kW		T <sub>j</sub> =+35℃	EER <sub>d</sub>	2.83	
T <sub>j</sub> =+30℃	P <sub>dc</sub>	19.546	kW		T <sub>j</sub> =+30℃	EER <sub>d</sub>	4.06	
T <sub>j</sub> =+25℃	P <sub>dc</sub>	12.401	kW		T <sub>j</sub> =+25℃	EER <sub>d</sub>	5.96	
T <sub>j</sub> =+20℃	P <sub>dc</sub>	8.577	kW		T <sub>j</sub> =+20℃	EER <sub>d</sub>	7.93	
Degradation co-efficient for air conditioners(*)	C <sub>dc</sub>	0.25	_					
		F	Power consumption in	modes ot	her than "active mode"			
Off mode	P <sub>OFF</sub>	0.061	kW		Crankcase heater mode	P <sub>CK</sub>	0.061	kW
Thermosat-off mode	P <sub>TO</sub>	0	kW		Standby mode	P <sub>SB</sub>	0.061	kW
			C	Other item	S			
Capacity control		varia	ible		For air-to-air air conditioner:air flow rate,outdoor measured	_	12000	m³/h
Sound power level,outdoor	L <sub>WA</sub>	83	dB					
	1	2088	kg CO <sub>2 eq</sub> (100years)				1	l

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

## Information requirements for heat pumps

Model(s):MV-280(10)WD2RN1T(D);
Test matching indoor units form 1, Duct: 4×MI2-71T1DN1-R; 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

Idication if the heater is equipped with a supplementary heater:no

If applicable:driver of compressor:electric motor

ared for the	average hea	ating season,parameters f	or the warmer and colder heating seas	soms are optional			
Symbol	Value	Unit	Item	Symbol	Value	Unit	
P <sub>rated,h</sub>	31.5	kW	Seasonal space heating energy efficiency	η <sub>s,h</sub>	133.4	%	
		teperature 20℃ and	efficiency/auxiliary energy	factor for part load			
$P_{dh}$	13.717	kW	Tj=-7°C	COP <sub>d</sub>	2.45		
P <sub>dh</sub>	9.000	kW	T <sub>j</sub> =+2℃	COPd	3.35		
P <sub>dh</sub>	6.082	kW	T <sub>j</sub> =+7°C	COP <sub>d</sub>	4.31		
P <sub>dh</sub>	7.317	kW	T <sub>j</sub> =+12℃	COP <sub>d</sub>	5.18		
P <sub>dh</sub>	13.717	kW	T <sub>biv</sub> =bivalent temperature	COP <sub>d</sub>	2.45		
P <sub>dh</sub>	15.988	kW	T <sub>OL</sub> =operation temperature	COP <sub>d</sub>	2.32		
T <sub>biv</sub>	-7	°C					
C <sub>dh</sub>	0.25	-					
odes other t	han "active r	mode"	Supp	lementary heater			
P <sub>OFF</sub>	0.061	kW	Back-up heating capacity(*)	elbu	0	kW	
P <sub>TO</sub>	0.061	kW	Type of energy input				
P <sub>CK</sub>	0.125	kW	Standby mode	P <sub>SB</sub>	0.061	kW	
		Oth	er items	•			
	varia	ible	For air-to-air heat pump:air flow rate,outdoor measured	_	12000	m³/h	
L <sub>WA</sub>	83	dB					
	2088	kg CO <sub>2 eq</sub> (100years)					
	Symbol Prated,h  ty for part lot titdoor tempor Pdh Pdh Pdh Pdh Pdh Tbiv  Cdh odes other t Poff PTO PCK	Symbol         Value           Prated,h         31.5           ty for part load at indoor intdoor temperatures. Tj           Pdh         13.717           Pdh         9.000           Pdh         6.082           Pdh         7.317           Pdh         13.717           Pdh         15.988           Tbiv         -7           Cdh         0.25           odes other than "active r         POFF           PTO         0.061           PCK         0.125           Varia           LWA         83	Symbol         Value         Unit           Prated,h         31.5         kW           ty for part load at indoor teperature 20°C and atdoor temperatures Tj         kW           Pdh         13.717         kW           Pdh         9.000         kW           Pdh         6.082         kW           Pdh         7.317         kW           Pdh         13.717         kW           Pdh         15.988         kW           Tbiv         -7         °C           Cdh         0.25         —           odes other than "active mode"         POFF         0.061         kW           PCK         0.125         kW           Oth           Variable           LWA         83         dB	Symbol         Value         Unit         Item           Prated,h         31.5         kW         Seasonal space heating energy efficiency           ty for part load at indoor teperature 20°C and itdoor temperatures T <sub>j</sub> Declared coefficient efficiency/auxiliary energy tell           Pdh         13.717         kW         Tj=-7°C           Pdh         9.000         kW         Tj=+2°C           Pdh         6.082         kW         Tj=+12°C           Pdh         7.317         kW         Tj=+12°C           Pdh         13.717         kW         Tj=+12°C           Pdh         15.988         kW         ToL =operation temperature           Pdh         15.988         kW         ToL =operation temperature           Cdh         0.25         —           Odes other than "active mode"         Supp           POFF         0.061         kW         Back-up heating capacity(*)           PTO         0.061         kW         Type of energy input           PCK         0.125         kW         Standby mode           Other items           Variable         For air-to-air heat pump:air flow rate,outdoor measured	Prated.h 31.5 kW Seasonal space heating energy efficiency  ty for part load at indoor teperature 20°C and indoor temperatures T <sub>j</sub> Pdh 13.717 kW T <sub>j</sub> =-7°C COPd  Pdh 9.000 kW T <sub>j</sub> =+2°C COPd  Pdh 6.082 kW T <sub>j</sub> =+7°C COPd  Pdh 7.317 kW T <sub>j</sub> =+12°C COPd  Pdh 13.717 kW T <sub>j</sub> =+12°C COPd  Pdh 13.717 kW T <sub>j</sub> =+12°C COPd  Pdh 7.317 kW T <sub>j</sub> =+12°C COPd  Pdh 13.717 kW T <sub>j</sub> =+12°C COPd  Pdh 15.988 kW T <sub>OL</sub> =operation temperature COPd  Pdh 15.988 kW T <sub>OL</sub> =operation temperature COPd  Pdh 0.25 —  Odes other than "active mode" Supplementary heater  Poff 0.061 kW Back-up heating capacity(*) elbu  PTO 0.061 kW Standby mode PSB  Other items  Variable For air-to-air heat pump:air flow rate, outdoor measured  LWA 83 dB	Symbol         Value         Unit         Item         Symbol         Value           P <sub>rated,h</sub> 31.5         kW         Seasonal space heating energy efficiency         η <sub>S.h</sub> 133.4           ty for part load at indoor teperature 20°C and iddoor temperatures T <sub>j</sub> Declared coefficient of performance or gas utilisation efficiency/auxiliary energy factor for part load at given or temperatures T <sub>j</sub> P <sub>dh</sub> 13.717         kW         T <sub>j</sub> =-7°C         COP <sub>d</sub> 2.45           P <sub>dh</sub> 9.000         kW         T <sub>j</sub> =+2°C         COP <sub>d</sub> 3.35           P <sub>dh</sub> 6.082         kW         T <sub>j</sub> =+7°C         COP <sub>d</sub> 4.31           P <sub>dh</sub> 7.317         kW         T <sub>j</sub> =+12°C         COP <sub>d</sub> 5.18           P <sub>dh</sub> 13.717         kW         T <sub>biv</sub> =bivalent temperature         COP <sub>d</sub> 2.45           P <sub>dh</sub> 13.717         kW         T <sub>biv</sub> =bivalent temperature         COP <sub>d</sub> 2.32           T <sub>biv</sub> -7         °C         Supplementary heater           P <sub>GF</sub> 0.061         kW         Back-up heating capacity(*)         elbu         0           P <sub>CK</sub> 0.125         kW         Standby mode         P <sub>SB</sub> 0.061	

(\*\*)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):MV-335(12)WD2RN1T(D);
Test matching indoor units form 1, Duct: 6×MI2-56T2DN1-R; 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 <sub>rated,c</sub>	33.5	kW		Seasonal space cooling energy efficiency	η <sub>s,c</sub>	183.0	%
Declared cooling capaci T <sub>j</sub> and in		oad at given ℃ (dry/wet b		Declared energy efficiency ratio or gas utilisation eff energy factor for part load at given outdoor temp				
T <sub>j</sub> =+35℃	P <sub>dc</sub>	33.5	kW		T <sub>j</sub> =+35℃	EER <sub>d</sub>	2.52	
T <sub>j</sub> =+30℃	P <sub>dc</sub>	23.445	kW		T <sub>j</sub> =+30℃	EER <sub>d</sub>	3.82	
T <sub>j</sub> =+25℃	P <sub>dc</sub>	14.549	kW		T <sub>j</sub> =+25℃	EER <sub>d</sub>	5.63	
T <sub>j</sub> =+20℃	P <sub>dc</sub>	7.044	kW		T <sub>j</sub> =+20℃	EER <sub>d</sub>	7.95	
Degradation co-efficient for air conditioners(*)	C <sub>dc</sub>	0.25	_					
		F	Power consumption in	modes of	ther than "active mode"			
Off mode	Poff	0.0812	kW		Crankcase heater mode	P <sub>CK</sub>	0.0812	kW
Thermosat-off mode	P <sub>TO</sub>	0	kW		Standby mode	$P_{SB}$	0.0812	kW
			(	Other item	ns			
Capacity control		varia	ible		For air-to-air air conditioner:air flow rate,outdoor measured	_	13000	m³/h
Sound power level,outdoor	L <sub>WA</sub>	84	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)					
	•		•	•	•			

Contact details

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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):MV-335(12)WD2RN1T(D);

Test matching indoor units form 1, Duct: 6×MI2-56T2DN1-R; 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

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

r arameters shall be deci		average nea	Tilling Scason, parameters	s ioi tile v	ranner and colder healing seas	T OPLIONAL	, ,	
Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	P <sub>rated,h</sub>	37.5	kW		Seasonal space heating energy efficiency	η <sub>s,h</sub>	133.4	%
Declared heating capac		oad at indoor peratures T <sub>j</sub>	teperature 20°C and		Declared coefficient o efficiency/auxiliary energy tem			
T <sub>j</sub> =-7°C	P <sub>dh</sub>	17.594	kW		T <sub>j</sub> =-7°C	COP <sub>d</sub>	2.49	
T <sub>j</sub> =+2°C	P <sub>dh</sub>	10.748	kW		T <sub>j</sub> =+2°C	COP <sub>d</sub>	3.19	
T <sub>j</sub> =+7°℃	P <sub>dh</sub>	7.350	kW		T <sub>j</sub> =+7°℃	COP <sub>d</sub>	4.42	
T <sub>j</sub> =+12℃	P <sub>dh</sub>	7.040	kW		T <sub>j</sub> =+12°C	COP <sub>d</sub>	5.74	
T <sub>biv</sub> =bivalent temperature	P <sub>dh</sub>	17.594	kW		T <sub>biv</sub> =bivalent temperature	COP <sub>d</sub>	2.49	
T <sub>OL</sub> =operation temperature	P <sub>dh</sub>	20.200	kW		T <sub>OL</sub> =operation temperature	COP <sub>d</sub>	2.10	
Bivalent temperature	T <sub>biv</sub>	-7	°C					
Degradation co-efficient for heat pumps(**)	C <sub>dh</sub>	0.25	_					
Power consumption in me	odes other	than "active r	node"		Supple	ementary heater		
Off mode	P <sub>OFF</sub>	0.0812	kW		Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P <sub>TO</sub>	0.0812	kW		Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.1452	kW		Standby mode	P <sub>SB</sub>	0.0812	kW
			Ot	ther items	3			
Capacity control		varia	ble		For air-to-air heat pump:air flow rate,outdoor measured	_	13000	m³/h
Sound power level,outdoor	L <sub>WA</sub>	84	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (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):MV-400(14)WD2RN1T(D);
Test matching indoor units form 1, Duct: 6×MI2-67T2DN1-R; 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 <sub>rated,c</sub>	40	kW		$\begin{array}{ccc} \text{Seasonal space cooling} & & & & & \\ \text{energy efficiency} & & & & & \\ \end{array}$		185.8	%
Declared cooling capaci T <sub>j</sub> and in		oad at given ℃ (dry/wet b						
T <sub>j</sub> =+35℃	P <sub>dc</sub>	40	kW		T <sub>j</sub> =+35℃	EER <sub>d</sub>	2.56	
T <sub>j</sub> =+30℃	P <sub>dc</sub>	29.311	kW		T <sub>j</sub> =+30℃	EER <sub>d</sub>	3.91	
T <sub>j</sub> =+25℃	P <sub>dc</sub>	18.368	kW		T <sub>j</sub> =+25℃	EER <sub>d</sub>	5.71	
T <sub>j</sub> =+20℃	P <sub>dc</sub>	8.557	kW		T <sub>j</sub> =+20℃	EER <sub>d</sub>	7.51	
Degradation co-efficient for air conditioners(*)	C <sub>dc</sub>	0.25	_					
		F	Power consumption in	modes of	ther than "active mode"			
Off mode	Poff	0.0814	kW		Crankcase heater mode	P <sub>CK</sub>	0.0814	kW
Thermosat-off mode	P <sub>TO</sub>	0	kW		Standby mode	$P_{SB}$	0.0814	kW
			C	Other item	ns			
Capacity control		varia	ible		For air-to-air air conditioner:air flow rate,outdoor measured	_	15000	m³/h
Sound power level,outdoor	L <sub>WA</sub>	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)					
		•	•					-

Contact details

(\*)If C<sub>dc</sub> 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):MV-400(14)WD2RN1T(D);

Test matching indoor units form 1, Duct: 6×MI2-67T2DN1-R; 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

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

Parameters shall be deci-	ared for the	average nea	iting season,parameters to	or the warmer and colder heating seas	soms are optional		
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P <sub>rated,h</sub>	40	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	135.0	%
Declared heating capac		oad at indoor peratures T <sub>j</sub>	teperature 20°C and	Declared coefficient of efficiency/auxiliary energy ter			
T <sub>j</sub> =-7℃	P <sub>dh</sub>	22.125	kW	T <sub>j</sub> =-7°C	COP <sub>d</sub>	2.21	
T <sub>j</sub> =+2℃	P <sub>dh</sub>	14.202	kW	T <sub>j</sub> =+2℃	COP <sub>d</sub>	3.25	
T <sub>j</sub> =+7℃	P <sub>dh</sub>	9.436	kW	T <sub>j</sub> =+7℃	COP <sub>d</sub>	4.91	
T <sub>j</sub> =+12℃	P <sub>dh</sub>	7.650	kW	T <sub>j</sub> =+12℃	COPd	5.95	
T <sub>biv</sub> =bivalent temperature	P <sub>dh</sub>	22.125	kW	T <sub>biv</sub> =bivalent temperature	COP <sub>d</sub>	2.21	
T <sub>OL</sub> =operation temperature	P <sub>dh</sub>	25.102	kW	T <sub>OL</sub> =operation temperature	COPd	1.79	
Bivalent temperature	T <sub>biv</sub>	-7	°C				
Degradation co-efficient for heat pumps(**)	C <sub>dh</sub>	0.25	-				
Power consumption in me	odes other	than "active r	node"	Suppl	ementary heater		
Off mode	P <sub>OFF</sub>	0.0814	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P <sub>TO</sub>	0.0814	kW	Type of energy input			
Crankcase heater mode	P <sub>CK</sub>	0.2092	kW	Standby mode	P <sub>SB</sub>	0.0814	kW
			Othe	er items			
Capacity control		varia	ible	For air-to-air heat pump:air flow rate,outdoor measured	_	15000	m <sup>3</sup> /h
Sound power level,outdoor	L <sub>WA</sub>	88	dB				
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (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):MV-450(16)WD2RN1T(D);
Test matching indoor units form 1, Duct: 6×MI2-76T2DN1-R; 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 <sub>rated,c</sub>	45	kW		Seasonal space cooling energy efficiency	η <sub>s,c</sub>	181.8	%
Declared cooling capaci T <sub>j</sub> and in		oad at given ℃ (dry/wet b		Declared energy efficiency ratio or gas utilisation eff energy factor for part load at given outdoor temp				
T <sub>j</sub> =+35℃	P <sub>dc</sub>	45	kW		T <sub>j</sub> =+35℃	EER <sub>d</sub>	2.28	
T <sub>j</sub> =+30℃	P <sub>dc</sub>	31.1	kW		T <sub>j</sub> =+30℃	EER <sub>d</sub>	3.91	
T <sub>j</sub> =+25℃	P <sub>dc</sub>	22.5	kW		T <sub>j</sub> =+25℃	EER <sub>d</sub>	5.45	
T <sub>j</sub> =+20℃	P <sub>dc</sub>	8.54	kW		T <sub>j</sub> =+20℃	EER <sub>d</sub>	7.54	
Degradation co-efficient for air conditioners(*)	C <sub>dc</sub>	0.25	_					
		F	Power consumption in	modes ot	ther than "active mode"			
Off mode	Poff	0.0814	kW		Crankcase heater mode	P <sub>CK</sub>	0.0814	kW
Thermosat-off mode	P <sub>TO</sub>	0	kW		Standby mode	$P_{SB}$	0.0814	kW
			C	Other item	ns			
Capacity control		varia	ible		For air-to-air air conditioner:air flow rate,outdoor measured	_	15000	m³/h
Sound power level,outdoor	L <sub>WA</sub>	88	dB					
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (100years)					
	•		•		•			

Contact details

(\*)If C<sub>dc</sub> 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):MV-450(16)WD2RN1T(D);

Test matching indoor units form 1, Duct: 6×MI2-76T2DN1-R; 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

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

				for the warmer and colder heating seas	1	1	
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	P <sub>rated,h</sub>	45	kW	Seasonal space heating energy efficiency	η <sub>s,h</sub>	135.0	%
Declared heating capaci		oad at indoor peratures T <sub>j</sub>	teperature 20℃ and	Declared coefficient of efficiency/auxiliary energy ter			
T <sub>j</sub> =-7℃	$P_{dh}$	22.125	kW	T <sub>j</sub> =-7℃	COP <sub>d</sub>	2.21	
T <sub>j</sub> =+2℃	$P_{dh}$	14.202	kW	T <sub>j</sub> =+2℃	COP <sub>d</sub>	3.25	
T <sub>j</sub> =+7℃	P <sub>dh</sub>	9.436	kW	T <sub>j</sub> =+7℃	COP <sub>d</sub>	4.91	
T <sub>j</sub> =+12℃	P <sub>dh</sub>	7.650	kW	T <sub>j</sub> =+12℃	COP <sub>d</sub>	5.95	
T <sub>biv</sub> =bivalent temperature	P <sub>dh</sub>	22.125	kW	T <sub>biv</sub> =bivalent temperature	COP <sub>d</sub>	2.21	
T <sub>OL</sub> =operation temperature	P <sub>dh</sub>	25.102	kW	T <sub>OL</sub> =operation temperature	COP <sub>d</sub>	1.79	
Bivalent temperature	T <sub>biv</sub>	-7	°C				
Degradation co-efficient for heat pumps(**)	C <sub>dh</sub>	0.25	-				
Power consumption in mo	odes other	than "active n	node"	Supp	lementary heater		
Off mode	P <sub>OFF</sub>	0.0814	kW	Back-up heating capacity(*)	elbu	0	kW
Thermosat-off mode	P <sub>TO</sub>	0.0814	kW	Type of energy input			
Crankcase heater mode	Pck	0.2092	kW	Standby mode	P <sub>SB</sub>	0.0814	kW
			Oth	er items			
Capacity control		varia	ble	For air-to-air heat pump:air flow rate,outdoor measured	_	15000	m³/h
Sound power level,outdoor	L <sub>WA</sub>	88	dB				
GWP of the refrigerant		2088	kg CO <sub>2 eq</sub> (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

## 此页不做印刷,仅做变更说明:

V1.0升级到V2.0更改GWP参数

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