

Cooling mode:

Table.1

Information requirements for air-to-air conditioners							
Model(s): MDV-V120W/DN1(C); Test matching indoor units form, Duct : MI2-36T2*+3×MI2-28T2*;							
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	$P_{rated,c}$	12.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	229	%
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}	12.314	kW	$T_j=+35^\circ\text{C}$	EER_d	2.72	--
$T_j=+30^\circ\text{C}$	P_{dc}	9.233	kW	$T_j=+30^\circ\text{C}$	EER_d	4.42	--
$T_j=+25^\circ\text{C}$	P_{dc}	6.165	kW	$T_j=+25^\circ\text{C}$	EER_d	7.86	--
$T_j=+20^\circ\text{C}$	P_{dc}	5.137	kW	$T_j=+20^\circ\text{C}$	EER_d	12	--
Degradation co-efficient for air conditioners(*)							
	C_{dc}	0.25	—				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.018	kW	Crankcase heater mode	P_{CK}	0.008	kW
Thermostat-off mode	P_{TO}	0.038	kW	Standby mode	P_{SB}	0.018	kW
Other items							
Capacity control	variable			For air-to-air air conditioner:air flow rate,outdoor measured	—	4600	m^3/h
Sound power level,outdoor	L_{WA}	70	dB				
GWP of the refrigerant		2088	kg CO ₂ 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							

Heating mode:

Table.2

Information requirements for heat pumps							
Model(s): MDV-V120W/DN1(C) ; Test matching indoor units form, Duct : MI2-36T2*+3×MI2-28T2*;							
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 seasons are optional							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	14.2	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	169	%
Declared heating capacity for part load at indoor teperature 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}	7.686	kW	$T_j=-7^\circ\text{C}$	COP_d	2.64	--
$T_j=+2^\circ\text{C}$	P_{dh}	4.72	kW	$T_j=+2^\circ\text{C}$	COP_d	4.09	--
$T_j=+7^\circ\text{C}$	P_{dh}	3.141	kW	$T_j=+7^\circ\text{C}$	COP_d	6.49	--
$T_j=+12^\circ\text{C}$	P_{dh}	3.834	kW	$T_j=+12^\circ\text{C}$	COP_d	8.3	--
T_{biv} =bivalent temperature	P_{dh}	7.686	kW	T_{biv} =bivalent temperature	COP_d	2.64	--
T_{OL} =operation temperature	P_{dh}	7.786	kW	T_{OL} =operation temperature	COP_d	2.39	--
Bivalent temperature	T_{biv}	-7	°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}	0.018	kW	Back-up heating capacity(*)	e_{lbu}	0.9	kW
Thermostat-off mode	P_{TO}	0.009	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.008	kW	Standby mode	P_{SB}	0.018	kW
Other items							
Capacity control	variable			For air-to-air heat pump:air flow rate,outdoor measured	—	4600	m^3/h
Sound power level,outdoor	L_{WA}	70	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							
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							



Cooling mode:

Table.1

Information requirements for air-to-air conditioners							
Model(s): MDV-V120W/DN1(C); Test matching indoor units form, cassette : MI2-36Q4*x2+3*MI2-28Q4*x2;							
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	$P_{rated,c}$	12.2	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	230.6	%
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}	12.224	kW	$T_j=+35^\circ\text{C}$	EER_d	2.83	—
$T_j=+30^\circ\text{C}$	P_{dc}	9.1	kW	$T_j=+30^\circ\text{C}$	EER_d	4.98	—
$T_j=+25^\circ\text{C}$	P_{dc}	5.937	kW	$T_j=+25^\circ\text{C}$	EER_d	8.54	—
$T_j=+20^\circ\text{C}$	P_{dc}	4.33	kW	$T_j=+20^\circ\text{C}$	EER_d	9.06	—
Degradation co-efficient for air conditioners(*)							
	C_{dc}	0.25	—				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.017	kW	Crankcase heater mode	P_{CK}	0.009	kW
Thermosat-off mode	P_{TO}	0.073	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-air air conditioner:air flow rate,outdoor measured	—	4600	m ³ /h
Sound power level,outdoor	L_{WA}	70	dB				
GWP of the refrigerant		2088	kg CO ₂ 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							

Heating mode:

Table.2

Information requirements for heat pumps							
Model(s): MDV-V120W/DN1(C); Test matching indoor units form, Duct : MI2-36Q4*x2+3*MI2-28Q4*x2;							
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	$P_{rated,h}$	14.0	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	169.8	%
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}	7.904	kW	$T_j=-7^\circ\text{C}$	COP_d	3.01	—
$T_j=+2^\circ\text{C}$	P_{dh}	5.06	kW	$T_j=+2^\circ\text{C}$	COP_d	3.99	—
$T_j=+7^\circ\text{C}$	P_{dh}	3.337	kW	$T_j=+7^\circ\text{C}$	COP_d	6.01	—
$T_j=+12^\circ\text{C}$	P_{dh}	3.474	kW	$T_j=+12^\circ\text{C}$	COP_d	7.34	—
T_{biv} =bivalent temperature	P_{dh}	7.904	kW	T_{biv} =bivalent temperature	COP_d	3.01	—
T_{OL} =operation temperature	P_{dh}	7.836	kW	T_{OL} =operation temperature	COP_d	2.63	—
Bivalent temperature	T_{biv}	-7	°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}	0.017	kW	Back-up heating capacity(*)	e_{lbu}	1.1	kW
Thermosat-off mode	P_{TO}	0.011	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.009	kW	Standby mode	P_{SB}	0.017	kW
Other items							
Capacity control	variable			For air-to-air heat pump:air flow rate,outdoor measured	—	4600	m ³ /h
Sound power level,outdoor	L_{WA}	70	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							
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							

