

Cooling mode:

Table.1

Information requirements for air-to-air conditioners								
Model(s): MDV-V160W/DN1(C); Test matching indoor units form, Duct : 2×M12-36T2*+2×M12-45T2*;								
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}	15.5	kW		Seasonal space cooling energy efficiency	η _{s,c}	211.4	%
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°C	P _{dc}	15.591	kW		T _j =+35°C	EER _d	2.25	--
T _j =+30°C	P _{dc}	11.671	kW		T _j =+30°C	EER _d	4.32	--
T _j =+25°C	P _{dc}	7.391	kW		T _j =+25°C	EER _d	6.85	--
T _j =+20°C	P _{dc}	5.37	kW		T _j =+20°C	EER _d	10.66	--
Degradation co-efficient for air conditioners(*)								
	C _{dc}	0.25	—					
Power consumption in modes other than "active mode"								
Off mode	P _{OFF}	0.015	kW		Crankcase heater mode	P _{CK}	0.010	kW
Thermosat-off mode	P _{TO}	0.057	kW		Standby mode	P _{SB}	0.015	kW
Other items								
Capacity control	variable				For air-to-air air conditioner:air flow rate,outdoor measured	—	5200	m ³ /h
Sound power level,outdoor	L _{WA}	71	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-V160W/DN1(C); Test matching indoor units form, Duct : 2×M12-36T2*+2×M12-45T2*;								
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}	18.2	kW		Seasonal space heating energy efficiency	η _{s,h}	165.4	%
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°C	P _{dh}	8.626	kW		T _j =-7°C	COP _d	2.79	--
T _j =+2°C	P _{dh}	5.14	kW		T _j =+2°C	COP _d	4.04	--
T _j =+7°C	P _{dh}	3.524	kW		T _j =+7°C	COP _d	5.98	--
T _j =+12°C	P _{dh}	3.867	kW		T _j =+12°C	COP _d	7.88	--
T _{biv} =bivalent temperature	P _{dh}	8.626	kW		T _{biv} =bivalent temperature	COP _d	2.79	--
T _{OL} =operation temperature	P _{dh}	8.914	kW		T _{OL} =operation temperature	COP _d	2.46	--
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}	0.016	kW		Back-up heating capacity(*)	elbu	0.8	kW
Thermosat-off mode	P _{TO}	0.011	kW		Type of energy input			
Crankcase heater mode	P _{CK}	0.010	kW		Standby mode	P _{SB}	0.016	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	—	5200	m ³ /h
Sound power level,outdoor	L _{WA}	71	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-V160W/DN1(C); Test matching indoor units form, cassette : 2×MI2-36Q4*x2+2×MI2-45Q4*;							
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	$P_{rated,c}$	15.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	240.6	%
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}	15.539	kW	$T_j=+35^\circ\text{C}$	EER_d	2.9	--
$T_j=+30^\circ\text{C}$	P_{dc}	11.224	kW	$T_j=+30^\circ\text{C}$	EER_d	5.53	--
$T_j=+25^\circ\text{C}$	P_{dc}	6.757	kW	$T_j=+25^\circ\text{C}$	EER_d	8	--
$T_j=+20^\circ\text{C}$	P_{dc}	5.945	kW	$T_j=+20^\circ\text{C}$	EER_d	9.5	--
Degradation co-efficient for air conditioners(*)							
C_{dc}		0.25	--				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.016	kW	Crankcase heater mode	P_{CK}	0.010	kW
Thermostat-off mode	P_{TO}	0.073	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control	variable			For air-to-air air conditioner:air flow rate,outdoor measured	--	5200	m^3/h
Sound power level,outdoor	L_{WA}	71	dB				
GWP of the refrigerant		2088	$\text{kg CO}_2 \text{ eq}(100\text{years})$				
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-V160W/DN1(C); Test matching indoor units form, cassette : 2×MI2-36Q4*x2+2×MI2-45Q4*;							
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	$P_{rated,h}$	18.2	kW	Seasonal space heating energy efficiency	$\eta_{s,h}$	165.4	%
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}	8.561	kW	$T_j=-7^\circ\text{C}$	COP_d	2.7	--
$T_j=+2^\circ\text{C}$	P_{dh}	5.163	kW	$T_j=+2^\circ\text{C}$	COP_d	4	--
$T_j=+7^\circ\text{C}$	P_{dh}	3.943	kW	$T_j=+7^\circ\text{C}$	COP_d	6.74	--
$T_j=+12^\circ\text{C}$	P_{dh}	3.839	kW	$T_j=+12^\circ\text{C}$	COP_d	8.51	--
T_{biv} =bivalent temperature	P_{dh}	8.561	kW	T_{biv} =bivalent temperature	COP_d	2.7	--
T_{OL} =operation temperature	P_{dh}	8.828	kW	T_{OL} =operation temperature	COP_d	2.1	--
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}	0.016	kW	Back-up heating capacity(*)	e_{bu}	0.9	kW
Thermostat-off mode	P_{TO}	0.011	kW	Type of energy input			
Crankcase heater mode	P_{CK}	0.010	kW	Standby mode	P_{SB}	0.016	kW
Other items							
Capacity control	variable			For air-to-air heat pump:air flow rate,outdoor measured	--	5200	m^3/h
Sound power level,outdoor	L_{WA}	71	dB				
GWP of the refrigerant		2088	$\text{kg CO}_2 \text{ eq}(100\text{years})$				
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							

