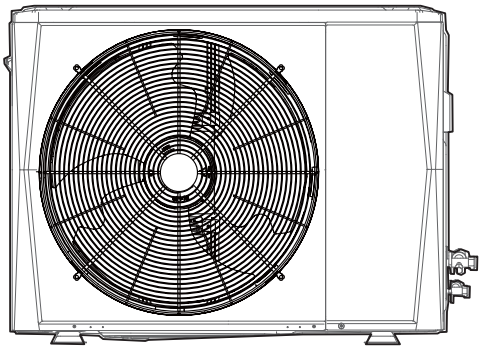
MUNDOCLIMA®

MVD

MINI MVD V6M OUTDOOR UNIT

Information requirements manual

MVD-V6M80W/DN1
MVD-V6M100W/DN1
MVD-V6M120W/DN1
MVD-V6M140W/DN1
MVD-V6M160W/DN1



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CL23290 to CL23294
English

MVD-V6M80W/DN1

Name or trademark		MUNDOCLIMA
Indoor model		4x MVD-17T2
Outdoor model		MVD-V6M80W/DN1
harmonized standards		EN 60335-1； EN 60335-2-40； EN 14511； EN 14825
Specifics precautions		None
Testing conditions		Accroding to harmonized standards
Sound power level at standard rating conditions (indoor/outdoor)	[dB]	60/65
Refrigerant type		R410A
GWP	[kg CO2, equivalents]	2088
SEER		5.12
Energy efficiency class in cooling		A
Annual electricity consumption in cooling QCE	[kWh/a]	492
Design load in cooling mode (Pdesignc)	[kW]	7.21
SCOP (heating average season)		3.80
Energy efficiency class in heating (average season)		A
Annual electricity consumption in heating QHE (average season)	[kWh/a]	1760
Declared capacity at reference design condition (heating average season/heating warmer season)	[kW]	7.20
Back up heating capacity at reference design condition (heating average season)	[kW]	0.7
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a Refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a Refrigerant fluid with a GWP equal to [2088]. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [2088] times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.		

MVD-V6M80W/DN1

Name or trademark		MUNDOCLIMA
Indoor model		2x MVD-36Q4
Outdoor model		MVD-V6M80W/DN1
harmonized standards		EN 60335-1； EN 60335-2-40； EN 14511； EN 14825
Specifics precautions		None
Testing conditions		Accroding to harmonized standards
Sound power level at standard rating conditions (indoor/outdoor)	[dB]	60/65
Refrigerant type		R410A
GWP	[kg CO2, equivalents]	2088
SEER		5.78
Energy efficiency class in cooling		A+
Annual electricity consumption in cooling QCE	[kWh/a]	436
Design load in cooling mode (Pdesignc)	[kW]	7.2
SCOP (heating average season)		3.80
Energy efficiency class in heating (average season)		A
Annual electricity consumption in heating QHE (average season)	[kWh/a]	1815
Design load in heating mode (Pdesignh)	[kW]	4.92
Declared capacity at reference design condition (heating average season)	[kW]	7.20
Back up heating capacity at reference design condition (heating average season)	[kW]	0.5
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a Refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a Refrigerant fluid with a GWP equal to [2088]. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [2088] times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.		

MVD-V6M100W/DN1

Name or trademark		MUNDOCLIMA
Indoor model		4x MVD-22T2
Outdoor model		MVD-V6M100W/DN1
harmonized standards		EN 60335-1； EN 60335-2-40； EN 14511； EN 14825
Specifics precautions		None
Testing conditions		Accroding to harmonized standards
Sound power level at standard rating conditions (indoor/outdoor)	[dB]	60/68
Refrigerant type		R410A
GWP	[kg CO2, equivalents]	2088
SEER		5.44
Energy efficiency class in cooling		A
Annual electricity consumption in cooling QCE	[kWh/a]	580
Design load in cooling mode (Pdesignc)	[kW]	9.02
SCOP (heating average season)		3.8
Energy efficiency class in heating (average season)		A
Annual electricity consumption in heating QHE (average season)	[kWh/a]	2105
Design load in heating mode (Pdesignh)	[kW]	5.71
Declared capacity at reference design condition (heating average season)	[kW]	9.08
Back up heating capacity at reference design condition (heating average season/heating warmer season)	[kW]	0.2
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a Refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a Refrigerant fluid with a GWP equal to [2088]. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [2088] times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.		

MVD-V6M100W/DN1

Name or trademark		MUNDOCLIMA
Indoor model		2x MVD-45Q4
Outdoor model		MVD-V6M100W/DN1
harmonized standards		EN 60335-1； EN 60335-2-40； EN 14511； EN 14825
Specifics precautions		None
Testing conditions		Accroding to harmonized standards
Sound power level at standard rating conditions (indoor/outdoor)	[dB]	60/68
Refrigerant type		R410A
GWP	[kg CO2, equivalents]	2088
SEER		6.24
Energy efficiency class in cooling		A++
Annual electricity consumption in cooling QCE	[kWh/a]	504
Design load in cooling mode (Pdesignc)	[kW]	9.0
SCOP (heating average season)		4.37
Energy efficiency class in heating (average season)		A+
Annual electricity consumption in heating QHE (average season)	[kWh/a]	1993
Design load in heating mode (Pdesignh)	[kW]	6.22
Declared capacity at reference design condition (heating average season)	[kW]	9.08
Back up heating capacity at reference design condition (heating average season)	[kW]	0.6
Refrigerant leakage contributes to climate change. Refrigerant with lower global warming potential (GWP) would contribute less to global warming than a Refrigerant with higher GWP, if leaked to the atmosphere. This appliance contains a Refrigerant fluid with a GWP equal to [2088]. This means that if 1kg of this refrigerant fluid would be leaked to the atmosphere, the impact on global warming would be [2088] times higher than 1kg of CO2, over a period of 100 years. Never try to interfere with the refrigerant circuit yourself or disassemble the product yourself and always ask a professional.		

MVD-V6M120W/DN1

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MVD-V6M120W/DN1
Test matching indoor units form, Duct：MVD-36T2 + 3x MVD-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℃（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℃	P_{dc}	12.314	kW		T_j=+35℃	EER_d	2.72	--
T_j=+30℃	P_{dc}	9.233	kW		T_j=+30℃	EER_d	4.42	--
T_j=+25℃	P_{dc}	6.165	kW		T_j=+25℃	EER_d	7.86	--
T_j=+20℃	P_{dc}	5.137	kW		T_j=+20℃	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
Thermosat-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): MVD-V6M120W/DN1
Test matching indoor units form, Duct：MVD-36T2 + 3x MVD-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 seasoms 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℃ 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℃	P_{dh}	7.686	kW		T_j=-7℃	COP_d	2.64	--
T_j=+2℃	P_{dh}	4.72	kW		T_j=+2℃	COP_d	4.09	--
T_j=+7℃	P_{dh}	3.141	kW		T_j=+7℃	COP_d	6.49	--
T_j=+12℃	P_{dh}	3.834	kW		T_j=+12℃	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	℃					
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(*)	elbu	0.9	kW
Thermosat-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	$kgCO_{2\ eq}$(100years)					
Contact details								

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(**)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

MVD-V6M120W/DN1

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MVD-V6M120W/DN1
Test matching indoor units form, cassette： 2x MVD-36Q4 + 2x MVD-28Q4

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℃ (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℃	P_{dc}	12.224	kW		T_j=+35℃	EER_d	2.83	--
T_j=+30℃	P_{dc}	9.1	kW		T_j=+30℃	EER_d	4.98	--
T_j=+25℃	P_{dc}	5.937	kW		T_j=+25℃	EER_d	8.54	--
T_j=+20℃	P_{dc}	4.33	kW		T_j=+20℃	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): MVD-V6M120W/DN1
Test matching indoor units form, Duct： 2x MVD-36Q4 + 2x MVD-28Q4

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

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 teperature 20℃ 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℃	P_{dh}	7.904	kW		T_j=-7℃	COP_d	3.01	--
T_j=+2℃	P_{dh}	5.06	kW		T_j=+2℃	COP_d	3.99	--
T_j=+7℃	P_{dh}	3.337	kW		T_j=+7℃	COP_d	6.01	--
T_j=+12℃	P_{dh}	3.474	kW		T_j=+12℃	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	℃					
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(*)	elbu	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	$kgCO_{2\ eq}$(100years)					
Contact details								

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(**)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

MVD-V6M140W/DN1

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MVD-V6M140W/DN1
Test matching indoor units form, Duct: 2x MVD-28T2 + 2x MVD-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	$P_{rated,c}$	14.2	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	221.8	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	14.206	kW		T_j=+35℃	EER_d	2.31	--
T_j=+30℃	P_{dc}	10.193	kW		T_j=+30℃	EER_d	4.3	--
T_j=+25℃	P_{dc}	6.758	kW		T_j=+25℃	EER_d	7.49	--
T_j=+20℃	P_{dc}	5.286	kW		T_j=+20℃	EER_d	12.21	--
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}	0.01	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	–	5000	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): MVD-V6M140W/DN1
Test matching indoor units form, Duct：2x MVD-28T2 + 2x MVD-45T2

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

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.2	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	171.8	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	7.925	kW		T_j=-7℃	COP_d	2.65	--
T_j=+2℃	P_{dh}	4.804	kW		T_j=+2℃	COP_d	4.06	--
T_j=+7℃	P_{dh}	3.45	kW		T_j=+7℃	COP_d	6.02	--
T_j=+12℃	P_{dh}	3.597	kW		T_j=+12℃	COP_d	7.8	--
T_{biv}=bivalent temperature	P_{dh}	8.312	kW		T_{biv} =bivalent temperature	COP_d	2.65	--
T_{OL}=operation temperature	P_{dh}	7.925	kW		T_{OL} =operation temperature	COP_d	2.36	--
Bivalent temperature	T_{biv}	-7	℃					
Degradation co-efficient for heat pumps(**)	C_{dh}	0.25	—					
Power consumption in modes other than "active mode"					Supplementary heater			
Off mode	P_{OFF}	0.015	kW		Back-up heating capacity(*)	elbu	0.9	kW
Thermosat-off mode	P_{TO}	0.009	kW		Type of energy input			
Crankcase heater mode	P_{CK}	0.010	kW		Standby mode	P_{SB}	0.015	kW
Other items								
Capacity control	variable				For air-to-air heat pump:air flow rate,outdoor measured	–	5000	m^3/h
Sound power level,outdoor	L_{WA}	71	dB					
GWP of the refrigerant		2088	$kgCO_{2\ eq}$(100years)					
Contact details								

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(**)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

MVD-V6M140W/DN1

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MVD-V6M140W/DN1
Test matching indoor units form, cassette： 2x MVD-28Q4 + 2x MVD-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	$P_{rated,c}$	14.0	kW		Seasonal space cooling energy efficiency	$\eta_{s,c}$	236.6	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	13.99	kW		T_j=+35℃	EER_d	3.07	--
T_j=+30℃	P_{dc}	10.482	kW		T_j=+30℃	EER_d	5.65	--
T_j=+25℃	P_{dc}	6.783	kW		T_j=+25℃	EER_d	7.5	--
T_j=+20℃	P_{dc}	5.6	kW		T_j=+20℃	EER_d	10.01	--
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
Thermosat-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	–	5000	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): MVD-V6M140W/DN1
Test matching indoor units form, cassette：2x MVD-28Q4 + 2x MVD-45Q4

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

Item	Symbol	Value	Unit		Item	Symbol	Value	Unit
Rated heating capacity	$P_{rated,h}$	16.0	kW		Seasonal space heating energy efficiency	$\eta_{s,h}$	175.4	%
Declared heating capacity for part load at indoor teperature 20℃ 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℃	P_{dh}	8.158	kW		T_j=-7℃	COP_d	2.6	--
T_j=+2℃	P_{dh}	5.477	kW		T_j=+2℃	COP_d	4.34	--
T_j=+7℃	P_{dh}	3.54	kW		T_j=+7℃	COP_d	5.73	--
T_j=+12℃	P_{dh}	43.497	kW		T_j=+12℃	COP_d	8.68	--
T_{biv}=bivalent temperature	P_{dh}	8.158	kW		T_{biv} =bivalent temperature	COP_d	2.6	--
T_{OL}=operation temperature	P_{dh}	8.846	kW		T_{OL} =operation temperature	COP_d	2.6	--
Bivalent temperature	T_{biv}	-7	℃					
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	0.4	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	–	5000	m^3/h
Sound power level,outdoor	L_{WA}	71	dB					
GWP of the refrigerant		2088	$kgCO_{2\ eq}$(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

MVD-V6M140W/DN1

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MVD-V6M160W/DN1
Test matching indoor units form, Duct：2x MVD-36T2 + 2x MVD-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	$\eta_{s,c}$	211.4	%
Declared cooling capacity for part load at given outdoor temperatures T_j and indoor 27/19℃（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℃	P_{dc}	15.591	kW		T_j=+35℃	EER_d	2.25	--
T_j=+30℃	P_{dc}	11.671	kW		T_j=+30℃	EER_d	4.32	--
T_j=+25℃	P_{dc}	7.391	kW		T_j=+25℃	EER_d	6.85	--
T_j=+20℃	P_{dc}	5.37	kW		T_j=+20℃	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)：MVD-V6M160W/DN1
Test matching indoor units form, Duct： 2x MVD-36T2 + 2x MVD-45T2

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

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 teperature 20℃ 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℃	P_{dh}	8.626	kW		T_j=-7℃	COP_d	2.79	--
T_j=+2℃	P_{dh}	5.14	kW		T_j=+2℃	COP_d	4.04	--
T_j=+7℃	P_{dh}	3.524	kW		T_j=+7℃	COP_d	5.98	--
T_j=+12℃	P_{dh}	3.867	kW		T_j=+12℃	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	℃					
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	$kgCO_{2\ eq}$(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

MVD-V6M160W/DN1

Cooling mode: Table.1

Information requirements for air-to-air conditioners

Model(s): MVD-V6M160W/DN1
Test matching indoor units form, cassette： 2x MVD-36Q4 + 2x MVD-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℃（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℃	P_{dc}	15.539	kW		T_j=+35℃	EER_d	2.9	--
T_j=+30℃	P_{dc}	11.224	kW		T_j=+30℃	EER_d	5.53	--
T_j=+25℃	P_{dc}	6.757	kW		T_j=+25℃	EER_d	8	--
T_j=+20℃	P_{dc}	5.945	kW		T_j=+20℃	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
Thermosat-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	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) : MVD-V6M160W/DN1
Test matching indoor units form, cassette：2x MVD-36Q4 + 2x MVD-45Q4

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

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 teperature 20℃ 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℃	P_{dh}	8.561	kW		T_j=-7℃	COP_d	2.7	--
T_j=+2℃	P_{dh}	5.163	kW		T_j=+2℃	COP_d	4	--
T_j=+7℃	P_{dh}	3.943	kW		T_j=+7℃	COP_d	6.74	--
T_j=+12℃	P_{dh}	3.839	kW		T_j=+12℃	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	℃					
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	0.9	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	$kgCO_{2\ eq}$(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

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