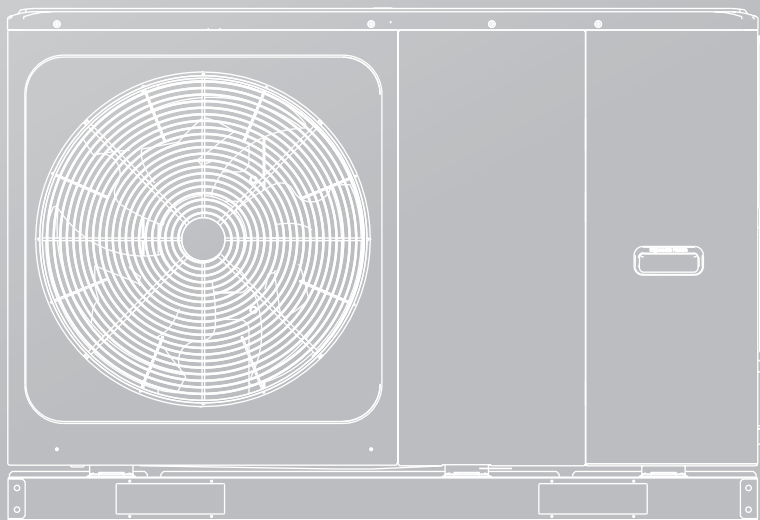


TECHNICAL DATA MANUAL

M-thermal Mono
ATW Heat Pump



IMPORTANT NOTE:

Thank you very much for purchasing our product,
Before using your unit , please read this manual carefully and keep it for future reference.

Model	For medium - temperature application													
	Energy efficiency class	Unit sound power	average climate				colder climate				warmer climate			
			Rated heat output kW	Seasonal space heating energy efficiency %	For space heating, annual energy consumption kWh	Rated heat output kW	Seasonal space heating energy efficiency %	For space heating, annual energy consumption kWh	Rated heat output kW	Seasonal space heating energy efficiency %	For space heating, annual energy consumption kWh	Rated heat output kW	Seasonal space heating energy efficiency %	For space heating, annual energy consumption kWh
MDVC-V4WD2ER8-A	A++	55	4.4	129.5	2742	3.4	102.1	3158	5.0	163.1	1614			
MDVC-V4WD2ER8-AE30	A++	55	4.4	129.5	2742	3.4	102.1	3158	5.0	163.1	1614			
MDVC-V6WD2ER8-A	A++	58	5.7	137.9	3343	4.3	111.1	3680	5.1	165.4	1634			
MDVC-V6WD2ER8-AE30	A++	58	5.7	137.9	3343	4.3	111.1	3680	5.1	165.4	1634			
MDVC-V8WD2ER8-A	A++	59	6.6	131.6	4054	5.8	112.1	4948	7.6	177.2	2242			
MDVC-V8WD2ER8-AE30	A++	59	6.6	131.6	4054	5.8	112.1	4948	7.6	177.2	2242			
MDVC-V8WD2ER8-AER90	A++	59	6.6	131.6	4054	5.8	112.1	4948	7.6	177.2	2242			
MDVC-V10WD2ER8-A	A++	60	7.7	135.7	4567	6.7	116.5	5539	8.6	181.7	2496			
MDVC-V10WD2ER8-AE30	A++	60	7.7	135.7	4567	6.7	116.5	5539	8.6	181.7	2496			
MDVC-V10WD2ER8-AER90	A++	60	7.7	135.7	4567	6.7	116.5	5539	8.6	181.7	2496			
MDVC-V12WD2ER8-A	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.1	3376			
MDVC-V12WD2ER8-AE30	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.1	3376			
MDVC-V12WD2ER8-AER90	A++	65	11.6	135.1	6927	10.3	117.8	8419	12.5	174.1	3376			
MDVC-V14WD2ER8-A	A++	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088			
MDVC-V14WD2ER8-AE30	A++	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088			
MDVC-V14WD2ER8-AER90	A++	65	12.1	135.6	7202	11.0	118.9	8866	13.7	176.5	4088			
MDVC-V16WD2ER8-A	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112			
MDVC-V16WD2ER8-AE30	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112			
MDVC-V16WD2ER8-AER90	A++	68	13.0	133.3	7895	11.8	121.8	9309	13.8	176.1	4112			
MDVC-V12WD2BR8-A	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780			
MDVC-V12WD2BR8-AE30	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780			
MDVC-V12WD2BR8-AER90	A++	65	11.6	135.1	6928	10.3	117.7	8420	12.5	173.8	3780			
MDVC-V14WD2BR8-A	A++	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092			
MDVC-V14WD2BR8-AE30	A++	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092			
MDVC-V14WD2BR8-AER90	A++	65	12.1	135.6	7203	11.0	118.9	8867	13.7	176.4	4092			
MDVC-V16WD2BR8-A	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116			
MDVC-V16WD2BR8-AE30	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116			
MDVC-V16WD2BR8-AER90	A++	68	13.0	133.2	7896	11.8	121.8	9310	13.8	175.9	4116			

Unit type explanation:

1. MDVC-V**WD2ER8-A, without back-up heater,
2. MDVC-V**WD2ER8-AE30, with 3kW back-up heater and 1-Phase Source
3. MDVC-V**WD2ER8-AER90, with 9kW back-up heater and 3-Phase Source

Model	For low - temperature application											
	average climate				colder climate				warmer climate			
	Energy efficiency class	Unit sound power	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output	Seasonal space heating energy efficiency	For space heating, annual energy consumption	Rated heat output
-	dB	kW	%	kWh	kWh	kW	%	kWh	kWh	kW	%	kWh
MDVC-V4WD2ER8-A	A+++	55	5.5	191.0	2351	4.6	159.5	2769	5.5	255.4	1146	1146
MDVC-V4WD2ER8-AE30	A+++	55	5.5	191.0	2351	4.6	159.5	2769	5.5	255.4	1146	1146
MDVC-V6WD2ER8-A	A+++	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244	1244
MDVC-V6WD2ER8-AE30	A+++	58	6.8	195.0	2845	5.6	165.3	3300	6.1	259.8	1244	1244
MDVC-V8WD2ER8-A	A+++	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551	1551
MDVC-V8WD2ER8-AE30	A+++	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551	1551
MDVC-V8WD2ER8-AER90	A+++	59	8.1	205.6	3218	7.0	170.0	3976	8.1	276.6	1551	1551
MDVC-V10WD2ER8-A	A+++	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617	1617
MDVC-V10WD2ER8-AE30	A+++	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617	1617
MDVC-V8WD2ER8-AER90	A+++	60	9.2	204.8	3644	7.7	169.8	4423	8.6	280.5	1617	1617
MDVC-V12WD2ER8-A	A+++	65	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292	2292
MDVC-V12WD2ER8-AE30	A+++	65	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292	2292
MDVC-V12WD2ER8-AER90	A+++	65	12.0	189.4	5152	11.4	160.2	6870	11.1	256.1	2292	2292
MDVC-V14WD2ER8-A	A+++	65	13.7	185.7	6012	12.6	159.6	7667	12.1	260.3	2457	2457
MDVC-V14WD2ER8-AE30	A+++	65	13.7	185.7	6012	12.6	159.6	7667	12.1	260.3	2457	2457
MDVC-V14WD2ER8-AER90	A+++	65	13.7	185.7	6012	12.6	159.6	7667	12.1	260.3	2457	2457
MDVC-V16WD2ER8-A	A+++	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781	2781
MDVC-V16WD2ER8-AE30	A+++	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781	2781
MDVC-V16WD2ER8-AER90	A+++	68	15.2	181.7	6804	13.7	157.8	8431	13.1	248.5	2781	2781
MDVC-V12WD2BR8-A	A+++	65	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296	2296
MDVC-V12WD2BR8-AE30	A+++	65	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296	2296
MDVC-V12WD2BR8-AER90	A+++	65	12.0	189.3	5153	11.4	160.2	6871	11.1	255.6	2296	2296
MDVC-V14WD2BR8-A	A+++	65	13.7	185.6	6013	12.6	159.6	7667	12.1	259.8	2462	2462
MDVC-V14WD2BR8-AE30	A+++	65	13.7	185.6	6013	12.6	159.6	7667	12.1	259.8	2462	2462
MDVC-V14WD2BR8-AER90	A+++	65	13.7	185.6	6013	12.6	159.6	7667	12.1	259.8	2462	2462
MDVC-V16WD2BR8-A	A+++	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786	2786
MDVC-V16WD2BR8-AE30	A+++	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786	2786
MDVC-V16WD2BR8-AER90	A+++	68	15.2	181.6	6805	13.7	157.8	8431	13.1	248.1	2786	2786

Unit type explanation:

1. MDVC-V**WD2ER8-A, without back-up heater,
2. MDVC-V**WD2ER8-AE30, with 3kW back-up heater and 1-Phase Source
3. MDVC-V**WD2ER8-AER90, with 9kW back-up heater and 3-Phase Source

Product fiche 1

Heat pump space heater		Model	MDVC-V4WD2ER8-A**	MDVC-V6WD2ER8-A***	MDVC-V8WD2ER8-A***	MDVC-V10WD2ER8-A***	MDVC-V12WD2ER8-A**
Unit sound power (*)	Average climate low temperature application	[dB]	55.0	58.0	59.0	60.0	65.0
	Average climate medium temperature application	[dB]	55.0	58.0	59.0	60.0	65.0
Capacity of the back-up heater integrated in the unit	Ps up back-up heater (optional)	[kW]	0/3	0/3	0/3/9	0/3/9	0/3/9
	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	Prated (declared heating capacity) @ -10°C	[kW]	5.5	6.8	8.1	9.2	12.0
	Seasonal space heating efficiency (η _s)	[%]	191.0	195.0	205.6	204.8	189.4
	Annual energy consumption	[kWh]	2,351	2,845	3,218	3644	5,152
Space heating 55°C	Prated (declared heating capacity) @ -10°C	[kW]	4.4	5.7	6.6	7.7	11.6
	Seasonal space heating efficiency (η _s)	[%]	129.5	137.9	131.6	135.7	135.1
	Annual energy consumption	[kWh]	2,742	3,343	4,054	4,567	6,927
Part load conditions space heating average climate low temperature application							
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61
	COP _d (declared COP)	-	3.19	3.09	3.35	3.23	2.88
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _{dh} (declared heating capacity)	[kW]	3.05	3.88	4.65	5.18	6.69
	COP _d (declared COP)	-	4.78	4.85	5.09	5.01	4.65
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _{dh} (declared heating capacity)	[kW]	1.93	2.39	2.90	3.32	4.44
	COP _d (declared COP)	-	6.13	6.63	6.82	7.08	6.62
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _{dh} (declared heating capacity)	[kW]	1.48	1.39	1.63	1.65	3.74
	COP _d (declared COP)	-	8.05	7.93	8.35	8.58	8.47
	C _{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 1

Heat pump space heater		Model	MDVC-V14WD2ER8-A***	MDVC-V16WD2ER8-A***	MDVC-V12WD2BR8-A***	MDVC-V14WD2BR8-A***	MDVC-V16WD2BR8-A***
Unit sound power (*)	Average climate low temperature application Average climate medium temperature application	[dB]	65.0	68.0	65.0	65.0	68.0
Capacity of the back-up heater integrated in the unit	Ps up back-up heater (optional)	[kW]	0/3/9	0/3/9	0/3/9	0/3/9	0/3/9
Space heating	Energy efficiency class 35°C (Low temp. app.)	-	A+++	A+++	A+++	A+++	A+++
Space heating	Energy efficiency class 55°C (Medium temp. app.)	-	A++	A++	A++	A++	A++
Average climate (Design temperature = -10°C)							
Space heating 35°C	P_{rated} (declared heating capacity) @ -10°C	[kW]	13.7	15.2	12.0	13.7	15.2
	Seasonal space heating efficiency (η_s)	[%]	185.7	181.7	189.3	185.6	181.6
	Annual energy consumption	[kWh]	6,012	6,804	5,153	6,013	6,805
Space heating 55°C	P_{rated} (declared heating capacity) @ -10°C	[kW]	12.1	13.0	11.6	12.1	13.0
	Seasonal space heating efficiency (η_s)	[%]	135.6	133.3	135.1	135.6	133.2
	Annual energy consumption	[kWh]	7,202	7,895	6,928	7,203	7,896
Part load conditions space heating average climate low temperature application							
(A) condition (-7°C)	P_{dlh} (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45
	COP_d (declared COP)	-	2.79	2.72	2.88	2.79	2.72
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P_{dlh} (declared heating capacity)	[kW]	7.94	8.56	6.69	7.94	8.56
	COP_d (declared COP)	-	4.52	4.41	4.65	4.52	4.41
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P_{dlh} (declared heating capacity)	[kW]	5.20	5.70	4.44	5.20	5.70
	COP_d (declared COP)	-	6.68	6.56	6.62	6.68	6.56
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P_{dlh} (declared heating capacity)	[kW]	3.75	3.78	3.74	3.75	3.78
	COP_d (declared COP)	-	8.52	8.51	8.47	8.52	8.51
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 2

Heat pump space heater		Model	MDVC-V4WD2ER8-A***	MDVC-V6WD2ER8-A***	MDVC-V8WD2ER8-A***	MDVC-V10WD2ER8-A***	MDVC-V12WD2ER8-A***
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	4.41	5.36	6.44	7.40	10.74
	COPd (declared COP)	-	2.86	2.76	3.04	2.96	2.77
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
(F) Tivalent temperature	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	4.88	6.03	7.18	8.10	10.61
	COPd (declared COP)	-	3.19	3.09	3.35	3.23	2.88
Supplementary capacity at P_design	Psup (@Tdesignh: -10°C)	[kW]	1.11	1.45	1.68	1.76	1.26
Part load conditions space heating average climate medium temperature application							
(A) condition (-7°C)	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.38	3.12	3.76	4.28	6.52
(B) condition (2°C)	COPd (declared COP)	-	3.30	3.51	3.30	3.42	3.44
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	2.94	2.08	2.43	2.77	4.36
(C) condition (7°C)	COPd (declared COP)	-	4.41	4.54	4.34	4.52	4.59
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	Pdh (declared heating capacity)	[kW]	1.32	1.28	1.39	1.58	3.29
	COPd (declared COP)	-	5.66	5.59	5.33	5.68	6.05
(D) condition (12°C)	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00
	Pdh (declared heating capacity)	[kW]	3.42	4.52	4.91	5.38	9.10
	COPd (declared COP)	-	1.91	1.91	1.84	1.83	1.79
(E) Tol (temperature operating limit)	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00
	Tblv	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00
	Pdh (declared heating capacity)	[kW]	3.89	5.04	5.84	6.78	10.24
	COPd (declared COP)	-	2.17	2.17	2.16	2.24	2.01

Product fiche 2

Heat pump space heater		Model	MDVC-V14WDZER8-A***	MDVC-V16WDZER8-A***	MDVC-V12WD2BR8-A**	MDVC-V14WD2BR8-A**	MDVC-V16WD2BR8-A***	
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	
	P _{dh} (declared heating capacity)	[kW]	11.47	12.52	10.74	11.47	12.52	
	COP _d (declared COP)	-	2.59	2.48	2.77	2.59	2.48	
	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	
(F) Tivalent temperature	T _{blv}	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	
	P _{dh} (declared heating capacity)	[kW]	12.14	13.45	10.61	12.14	13.45	
	COP _d (declared COP)	-	2.79	2.72	2.88	2.79	2.72	
Supplementary capacity at P_{design}	P _{sup} (@T _{design} : -10°C)	[kW]	2.23	2.68	1.26	2.23	2.68	
Part load conditions space heating average climate medium temperature application								
(A) condition (-7°C)	P _{dh} (declared heating capacity)	[kW]	10.68	11.52	10.24	10.68	11.52	
	COP _d (declared COP)	-	2.01	1.99	2.01	2.01	1.99	
	Cdh(declared coefficient)	-	0.90	0.90	0.90	0.90	0.90	
	P _{dh} (declared heating capacity)	[kW]	6.86	7.18	6.52	6.86	7.18	
(B) condition (2°C)	COP _d (declared COP)	-	3.43	3.34	3.44	3.43	3.34	
	Cdh(declared coefficient)	-	0.90	0.90	0.90	0.90	0.90	
	P _{dh} (declared heating capacity)	[kW]	4.63	4.67	4.36	4.63	4.67	
(C) condition (7°C)	COP _d (declared COP)	-	4.66	4.61	4.59	4.66	4.61	
	Cdh(declared coefficient)	-	0.90	0.90	0.90	0.90	0.90	
	P _{dh} (declared heating capacity)	[kW]	3.31	3.32	3.29	3.31	3.32	
	COP _d (declared COP)	-	6.13	6.07	6.05	6.13	6.07	
(D) condition (12°C)	Cdh(declared coefficient)	-	0.90	0.90	0.90	0.90	0.90	
	Tol (temperature operating limit)	[°C]	-10.00	-10.00	-10.00	-10.00	-10.00	
	P _{dh} (declared heating capacity)	[kW]	9.19	10.33	9.10	9.19	10.33	
	COP _d (declared COP)	-	1.76	1.80	1.79	1.76	1.80	
(E) Tol (temperature operating limit)	WTOL (Heating water Operation Limit)	[°C]	60.00	60.00	60.00	60.00	60.00	
	T _{blv}	[°C]	-7.00	-7.00	-7.00	-7.00	-7.00	
	P _{dh} (declared heating capacity)	[kW]	10.68	11.52	10.27	10.68	11.52	
(F) Tivalent temperature	COP _d (declared COP)	-	2.01	1.99	2.01	2.01	1.99	
	Supplementary capacity at P_{design}	P _{sup} (@T _{design} : -10°C)	[kW]	2.91	2.67	2.50	2.91	2.67

Product fiche 3

Heat pump space heater

Supplementary capacity at P_design		Model	MDVC-V4WD2ER8-A***	MDVC-V6WD2ER8-A***	MDVC-V8WD2ER8-A***	MDVC-V10WD2ER8-A***	MDVC-V12WD2ER8-A***
P _{sup} (@T _{designh} : -10°C)		[kW]	0.98	1.18	1.69	2.28	2.50
Colder climate (Design temperature = -22°C)							
Prated (declared heating capacity) @ -22°C		[kW]	4.6	5.6	7.0	7.7	11.4
Seasonal space heating efficiency (η _s)		[%]	159.5	165.3	170.0	169.8	160.2
Annual energy consumption		[kWh]	2,769	3,300	3,976	4,423	6,870
Prated (declared heating capacity) @ -22°C		[kW]	3.4	4.3	5.8	6.7	10.3
Seasonal space heating efficiency (η _s)		[%]	102.1	111.1	112.1	116.5	117.8
Annual energy consumption		[kWh]	3,158	3,680	4,948	5,539	8,419
Part load conditions space heating colder climate low temperature application							
(A) condition (-7°C)		[kW]	2.75	3.42	4.46	4.83	7.05
COP _d (declared COP)		-	3.49	3.59	3.66	3.60	3.48
C _d (degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90
P _d h (declared heating capacity)		[kW]	1.77	2.06	2.69	2.94	4.67
COP _d (declared COP)		-	4.95	5.21	5.20	5.26	4.96
C _d h(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)		[kW]	1.17	1.46	1.65	1.92	3.14
COP _d (declared COP)		-	5.53	6.24	6.53	7.08	6.10
C _d h(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)		[kW]	1.43	1.44	1.65	1.65	3.57
COP _d (declared COP)		-	7.67	7.66	7.96	7.96	7.87
C _d h(degradation coefficient)		-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)		[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
P _d h (declared heating capacity)		[kW]	2.80	3.48	4.06	4.62	7.01
COP _d (declared COP)		-	1.97	1.96	1.95	1.97	1.98
WTOL (Heating water Operation Limit)		[°C]	51.00	51.00	51.00	51.00	51.00
(F) T _{biv} valent temperature		[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
P _d h (declared heating capacity)		[kW]	3.72	4.59	5.69	6.32	9.28
COP _d (declared COP)		-	2.57	2.53	2.83	2.64	2.59
Supplementary capacity at P_design		[kW]	1.76	2.15	2.91	3.08	4.40

Product fiche 3

Heat pump space heater

Colder climate (Design temperature = -22°C)		Model	MDVC-V14WD2ER8-A***	MDVC-V12WD2BR8-A**	MDVC-V14WD2BR8-A**	MDVC-V16WD2BR8-A***	
Space heating 35°C	P_{rated} (declared heating capacity) @ -22°C	[kW]	12.6	13.7	11.4	12.6	13.7
	Seasonal space heating efficiency (η_s)	[%]	159.6	157.8	160.2	159.6	157.8
	Annual energy consumption	[kWh]	7,667	8,431	6,871	7,667	8,431
Space heating 55°C	P_{rated} (declared heating capacity) @ -22°C	[kW]	11.0	11.8	10.3	11.0	11.8
	Seasonal space heating efficiency (η_s)	[%]	118.9	121.8	117.7	118.9	121.8
	Annual energy consumption	[kWh]	8,866	9,309	8,420	8,867	9,310
Part load conditions space heating colder climate low temperature application							
(A) condition (-7°C)	P_{dh} (declared heating capacity)	[kW]	7.96	8.31	7.05	7.96	8.31
	COP_d (declared COP)	-	3.44	3.37	3.48	3.44	3.37
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P_{dh} (declared heating capacity)	[kW]	5.05	5.26	4.67	5.05	5.26
	COP_d (declared COP)	-	4.92	4.86	4.96	4.92	4.86
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P_{dh} (declared heating capacity)	[kW]	3.15	3.62	3.14	3.15	3.62
	COP_d (declared COP)	-	6.11	6.49	6.10	6.11	6.49
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P_{dh} (declared heating capacity)	[kW]	3.57	3.34	3.57	3.57	3.34
	COP_d (declared COP)	-	7.82	7.40	7.87	7.82	7.40
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P_{dh} (declared heating capacity)	[kW]	7.57	8.88	7.01	7.57	8.88
	COP_d (declared COP)	-	1.92	1.97	1.98	1.92	1.97
(F) Tivalent temperature	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
	T_{biv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P_{dh} (declared heating capacity)	[kW]	10.31	11.22	9.28	10.31	11.22
Supplementary capacity at P_{design}	COP_d (declared COP)	-	2.53	2.43	2.59	2.53	2.43
	P_{sup} (@ $T_{designh}$: -22°C)	[kW]	5.03	4.82	4.40	5.03	4.82

Product fiche 4

Heat pump space heater		Model	MDVC-V4WD2ER8-A***	MDVC-V6WD2ER8-A***	MDVC-V8WD2ER8-A***	MDVC-V10WD2ER8-A***	MDVC-V12WD2ER8-A***
Part load conditions space heating colder climate medium temperature application							
(A) condition (-7°C)	P _d h (declared heating capacity)	[kW]	2.13	2.69	3.86	4.27	6.63
	COP _d (declared COP)	-	2.32	2.46	2.48	2.54	2.63
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(B) condition (2°C)	P _d h (declared heating capacity)	[kW]	1.28	1.60	2.21	2.57	4.06
	COP _d (declared COP)	-	2.99	3.36	3.35	3.51	3.60
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	P _d h (declared heating capacity)	[kW]	1.01	1.02	1.44	1.65	2.78
	COP _d (declared COP)	-	3.86	3.94	4.11	4.37	4.54
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	P _d h (declared heating capacity)	[kW]	1.36	1.37	1.47	1.48	3.33
	COP _d (declared COP)	-	6.28	6.35	5.92	5.96	6.25
	C _d h (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) T _{ol} (temperature operating limit)	T _{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
	P _d h (declared heating capacity)	[kW]	1.64	2.09	2.80	2.80	4.19
	COP _d (declared COP)	-	1.02	1.13	1.22	1.22	1.13
(F) T _{biv} (bivalent temperature)	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
	T _{biv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
	P _d h (declared heating capacity)	[kW]	2.74	3.47	4.71	5.47	8.41
Supplementary capacity at P _{design}	COP _d (declared COP)	-	1.74	1.86	1.90	2.00	1.84
	P _{sup} (@T _{design} : -22°C)	[kW]	1.72	2.17	2.97	3.91	6.12
Warmer climate (Design temperature = 2°C)							
Space heating 35°C	P _{rated} (declared heating capacity) @ 2°C	[kW]	5.5	6.1	8.1	8.6	11.1
	Seasonal space heating efficiency (η _s)	[%]	255.4	259.8	276.6	280.5	256.1
	Annual energy consumption	[kWh]	1,146	1,244	1,551	1,617	2,292
Space heating 55°C	P _{rated} (declared heating capacity) @ 2°C	[kW]	5.0	5.1	7.6	8.6	12.5
	Seasonal space heating efficiency (η _s)	[%]	163.1	165.4	177.2	181.7	174.1
	Annual energy consumption	[kWh]	1,614	1,634	2,242	2,496	3,376

Product fiche 4

Heat pump space heater		Model	MDVC-V14WD2ER8-A***	MDVC-V16WD2ER8-A***	MDVC-V12WD2BR8-A***	MDVC-V14WD2BR8-A**	MDVC-V16WD2BR8-A***
Part load conditions space heating colder climate medium temperature application							
	P_{d,h} (declared heating capacity)	[kW]	6.89	7.64	6.63	6.89	7.64
(A) condition (-7°C)	COP_d (declared COP)	-	2.66	2.65	2.63	2.66	2.65
	C_{d,h} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	P_{d,h} (declared heating capacity)	[kW]	4.32	4.42	4.06	4.32	4.42
(B) condition (2°C)	COP_d (declared COP)	-	3.66	3.79	3.60	3.66	3.79
	C_{d,h} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	P_{d,h} (declared heating capacity)	[kW]	3.06	2.97	2.78	3.06	2.97
(C) condition (7°C)	COP_d (declared COP)	-	4.72	4.81	4.54	4.72	4.81
	C_{d,h} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	P_{d,h} (declared heating capacity)	[kW]	3.33	3.43	3.33	3.33	3.43
(D) condition (12°C)	COP_d (declared COP)	-	6.25	6.29	6.25	6.25	6.29
	C_{d,h} (degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
	T_{ol} (temperature operating limit)	[°C]	-22.00	-22.00	-22.00	-22.00	-22.00
(E) T _{ol} (temperature operating limit)	P_{d,h} (declared heating capacity)	[kW]	4.20	5.21	4.19	4.20	5.21
	COP_d (declared COP)	-	1.13	1.23	1.13	1.13	1.23
	WTOL (Heating water Operation Limit)	[°C]	51.00	51.00	51.00	51.00	51.00
	T_{b,iv}	[°C]	-15.00	-15.00	-15.00	-15.00	-15.00
(F) T _{bivalent} temperature	P_{d,h} (declared heating capacity)	[kW]	8.94	9.61	8.41	8.94	9.61
	COP_d (declared COP)	-	1.79	1.86	1.84	1.79	1.86
Supplementary capacity at P _{design}	P_{sup} (@T _{design,h} : -22°C)	[kW]	6.76	6.59	6.12	6.76	6.59
Warmer climate (Design temperature = 2°C)							
	P_{r,ated} (declared heating capacity) @ 2°C	[kW]	12.1	13.1	11.1	12.1	13.1
Space heating 35°C	Seasonal space heating efficiency (η_s)	[%]	260.3	248.5	255.6	259.8	248.1
	Annual energy consumption	[kWh]	2,457	2,781	2,296	2,462	2,786
	P_{r,ated} (declared heating capacity) @ 2°C	[kW]	13.7	13.8	12.5	13.7	13.8
Space heating 55°C	Seasonal space heating efficiency (η_s)	[%]	176.5	176.1	173.8	176.4	175.9
	Annual energy consumption	[kWh]	4,088	4,112	3,780	4,092	4,116

Product fiche 5

Heat pump space heater		Model	MDVC-V4WD2ER8-A***	MDVC-V6WD2ER8-A***	MDVC-V8WD2ER8-A***	MDVC-V10WD2ER8-A***	MDVC-V12WD2ER8-A***
Part load conditions space heating warmer climate low temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	5.34	5.93	7.56	8.44	11.26
	COPd (declared COP)	-	3.94	3.91	3.98	3.84	3.59
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.56	3.93	5.22	5.52	7.14
	COPd (declared COP)	-	5.92	5.89	6.26	6.18	5.87
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.63	1.79	2.62	2.62	3.55
	COPd (declared COP)	-	7.91	8.20	9.23	9.04	7.94
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	5.34	5.93	7.56	8.44	11.26
	COPd (declared COP)	-	3.94	3.91	3.98	3.84	3.59
(F) Tivalent temperature	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
	Tbiv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.56	3.93	5.22	5.52	7.14
Supplementary capacity at P_design	COPd (declared COP)	-	5.92	5.89	6.26	6.18	5.87
	Psup (@Tdesign: 2°C)	[kW]	0.18	0.18	0.55	0.14	0.00
Part load conditions space heating warmer climate medium temperature application							
(B) condition (2°C)	Pdh (declared heating capacity)	[kW]	4.83	5.02	7.55	8.06	12.07
	COPd (declared COP)	-	2.51	2.48	2.59	2.59	2.31
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(C) condition (7°C)	Pdh (declared heating capacity)	[kW]	3.22	3.31	4.86	5.54	8.04
	COPd (declared COP)	-	3.68	3.67	3.92	4.10	3.86
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90
(D) condition (12°C)	Pdh (declared heating capacity)	[kW]	1.47	1.59	2.32	2.53	3.75
	COPd (declared COP)	-	5.15	5.29	5.55	5.82	5.70
	Cdh(degradation coefficient)	-	0.90	0.90	0.90	0.90	0.90

Product fiche 5

Heat pump space heater

	Model	MDVC-V14WD2ER8-A***	MDVC-V16WD2ER8-A***	MDVC-V12WD2BR8-A***	MDVC-V14WD2BR8-A**	MDVC-V16WD2BR8-A***
Part load conditions space heating warmer climate low temperature application						
	P_{dh} (declared heating capacity)	[kW]	12.04	13.10	11.26	12.04
(B) condition (2°C)	COP_d (declared COP)	-	3.44	3.35	3.59	3.44
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (7°C)	P_{dh} (declared heating capacity)	[kW]	7.78	8.41	7.14	7.78
	COP_d (declared COP)	-	5.84	5.36	5.87	5.84
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (12°C)	P_{dh} (declared heating capacity)	[kW]	3.75	3.87	3.55	3.75
	COP_d (declared COP)	-	8.25	8.11	7.94	8.25
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90
(E) T_{ol} (temperature operating limit)	T_{ol} (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00
	P_{dh} (declared heating capacity)	[kW]	12.04	13.10	11.26	12.04
	COP_d (declared COP)	-	3.44	3.35	3.59	3.44
(F) Tivalent temperature	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00
	T_{blv}	[°C]	7.00	7.00	7.00	7.00
	P_{dh} (declared heating capacity)	[kW]	7.78	8.41	7.14	7.78
	COP_d (declared COP)	-	5.84	5.36	5.87	5.84
Supplementary capacity at P_{design}	P_{sup} (@ $T_{designh}$: 2°C)	[kW]	0.00	0.00	0.00	0.00
Part load conditions space heating warmer climate medium temperature application						
	P_{dh} (declared heating capacity)	[kW]	13.04	13.38	12.07	13.04
(B) condition (2°C)	COP_d (declared COP)	-	2.20	2.29	2.31	2.20
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90
(C) condition (7°C)	P_{dh} (declared heating capacity)	[kW]	8.83	8.86	8.04	8.83
	COP_d (declared COP)	-	3.91	3.84	3.86	3.91
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90
(D) condition (12°C)	P_{dh} (declared heating capacity)	[kW]	4.08	4.06	3.75	4.08
	COP_d (declared COP)	-	5.90	5.86	5.70	5.90
	C_{dh} (degradation coefficient)	-	0.90	0.90	0.90	0.90

Product fiche 6

Heat pump space heater		Model	MDVC-V4WD2ER8-A***	MDVC-V6WD2ER8-A***	MDVC-V8WD2ER8-A***	MDVC-V10WD2ER8-A***	MDVC-V12WD2ER8-A***
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	Pdh (declared heating capacity)	[kW]	4.83	5.02	7.83	8.15	12.07
	COPd (declared COP)	-	2.51	2.48	2.66	2.61	2.31
	WTOL (Heating water Operation L.limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tivalent temperature	Tblv	[°C]	7.00	7.00	7.00	7.00	7.00
	Pdh (declared heating capacity)	[kW]	3.22	3.31	4.86	5.54	8.04
	COPd (declared COP)	-	3.68	3.67	3.92	4.10	3.86
	Psup (@Tdesignh: 2°C)	[kW]	0.18	0.12	0.00	0.48	0.43
Supplementary capacity at P_design							
0							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
	Rated airflow	[m³/h]	2770	2770	4030	4030	4060
	Rated water/brine flow (outdoor H/E)		/	/	/	/	/
	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	Poff (Power consumption Off mode)	[kW]	0.014	0.014	0.014	0.014	0.014
Other	Pto (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.024	0.024	0.024
	Psb (Power consumption Standby mode)	[kW]	0.014	0.014	0.014	0.014	0.014
	PCK (Power crankcase heater mode)	[kW]	0.000	0.000	0.000	0.000	0.000
	Qelec (Daily electricity consumption)	[kWh]	/	/	/	/	/
Qfuel (Daily fuel consumption)	[kWh]	/	/	/	/	/	

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

Product fiche 6

Heat pump space heater		Model	MDVC-V14WD2ER8-A***	MDVC-V16WD2ER8-A***	MDVC-V12WD2BR8-A**	MDVC-V14WD2BR8-A***	MDVC-V16WD2BR8-A**
(E) Tol (temperature operating limit)	Tol (temperature operating limit)	[°C]	2.00	2.00	2.00	2.00	2.00
	P _{dh} (declared heating capacity)	[kW]	13.04	13.38	12.07	13.04	13.38
	COP _d (declared COP)	-	2.20	2.29	2.31	2.20	2.29
	WTOL (Heating water Operation Limit)	[°C]	62.00	62.00	62.00	62.00	62.00
(F) Tivalent temperature	T _{biv}	[°C]	7.00	7.00	7.00	7.00	7.00
	P _{dh} (declared heating capacity)	[kW]	8.83	8.86	8.04	8.83	8.86
	COP _d (declared COP)	-	3.91	3.84	3.86	3.91	3.84
	P _{sup} (@Tdesignh: 2°C)	[kW]	0.66	0.42	0.43	0.66	0.42
Supplementary capacity at P _{design}							
0							
Product description	Air-to-water heat pump	Y/N	Yes	Yes	Yes	Yes	Yes
	Water-to-water heat pump	Y/N	No	No	No	No	No
	Brine-to-water heat pump	Y/N	No	No	No	No	No
	Low-temperature heat pump	Y/N	No	No	No	No	No
	Equipped with a supplementary heater	Y/N	Yes	Yes	Yes	Yes	Yes
	Heat pump combination heater	Y/N	No	No	No	No	No
	Rated airflow	[m ³ /h]	4060	4650	4060	4060	4650
	Rated water/brine flow (outdoor H/E)		/	/	/	/	/
	Capacity control	-	Inverter	Inverter	Inverter	Inverter	Inverter
	P _{off} (Power consumption Off mode)	[kW]	0.014	0.014	0.02	0.02	0.02
Other	P _{to} (Power consumption Thermostat off mode)	[kW]	0.024	0.024	0.030	0.030	0.030
	P _{sb} (Power consumption Standby mode)	[kW]	0.014	0.014	0.02	0.02	0.02
	P _{CK} (Power crankcase heater model)	[kW]	0.000	0.000	0.000	0.000	0.000
	Q _{elec} (Daily electricity consumption)	[kWh]	/	/	/	/	/
	Q _{fuel} (Daily fuel consumption)	[kWh]	/	/	/	/	/

Details and precautions on installation, maintenance and assembly can be found in the installation and or operation manuals.

Product fiche data according to energy label directive 2010/30/EC regulation (EU) 811/2013.

Technical parameters							
Model(s):	MDVC-V4WD2ER8-A						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.4	kW	Seasonal space heating energy efficiency	η_s	129.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	3.89	kW	Tj = -7°C	COPd	2.17	-
Tj = 2°C	Pdh	2.38	kW	Tj = 2°C	COPd	3.30	-
Tj = 7°C	Pdh	2.94	kW	Tj = 7°C	COPd	4.41	-
Tj = 12°C	Pdh	1.32	kW	Tj = 12°C	COPd	5.66	-
Tj = bivalent temperature	Pdh	3.89	kW	Tj = bivalent temperature	COPd	2.17	-
Tj = operating limit	Pdh	3.42	kW	Tj = operating limit	COPd	1.91	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	T _{biv}	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	0.98	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-55	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	2744	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters

Model(s):	MDVC-V4WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	3.4	kW	Seasonal space heating energy efficiency	η_s	102.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	2.13	kW	Tj = -7°C	COPd	2.32	-
Tj = 2°C	Pdh	1.28	kW	Tj = 2°C	COPd	2.99	-
Tj = 7°C	Pdh	1.01	kW	Tj = 7°C	COPd	3.86	-
Tj = 12°C	Pdh	1.36	kW	Tj = 12°C	COPd	6.28	-
Tj = bivalent temperature	Pdh	2.74	kW	Tj = bivalent temperature	COPd	1.74	-
Tj = operating limit	Pdh	1.64	kW	Tj = operating limit	COPd	1.02	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	1.72	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	3159	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V4WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.0	kW	Seasonal space heating energy efficiency	η_s	162.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	4.83	kW	Tj = 2°C	COPd	2.51	-
Tj = 7°C	Pdh	3.22	kW	Tj = 7°C	COPd	3.68	-
Tj = 12°C	Pdh	1.47	kW	Tj = 12°C	COPd	5.15	-
Tj = bivalent temperature	Pdh	3.22	kW	Tj = bivalent temperature	COPd	3.68	-
Tj = operating limit	Pdh	4.83	kW	Tj = operating limit	COPd	2.51	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	P _{sup}	0.18	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	1621	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fu.1el consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V6WD2ER8-A																																																																																																																																																																																																																																														
Air-to-water heat pump:	YES																																																																																																																																																																																																																																														
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style="color: red;">2.17</td> <td>-</td> </tr> <tr> <td>Tj = 2°C</td> <td>Pdh</td> <td style="color: red;">3.12</td> <td>kW</td> <td>Tj = 2°C</td> <td>COPd</td> <td style="color: red;">3.51</td> <td>-</td> </tr> <tr> <td>Tj = 7°C</td> <td>Pdh</td> <td style="color: red;">2.08</td> <td>kW</td> <td>Tj = 7°C</td> <td>COPd</td> <td style="color: red;">4.54</td> <td>-</td> </tr> <tr> <td>Tj = 12°C</td> <td>Pdh</td> <td style="color: red;">1.28</td> <td>kW</td> <td>Tj = 12°C</td> <td>COPd</td> <td style="color: red;">5.59</td> <td>-</td> </tr> <tr> <td>Tj = bivalent temperature</td> <td>Pdh</td> <td style="color: red;">5.04</td> <td>kW</td> <td>Tj = bivalent temperature</td> <td>COPd</td> <td style="color: red;">2.17</td> <td>-</td> </tr> <tr> <td>Tj = operating limit</td> <td>Pdh</td> <td style="color: red;">4.52</td> <td>kW</td> <td>Tj = operating limit</td> <td>COPd</td> <td style="color: red;">1.91</td> <td>-</td> </tr> <tr> <td>For air-to-water heat pumps: Tj = -15°C</td> <td>Pdh</td> <td style="color: red;">-</td> <td>kW</td> <td>For air-to-water heat pumps: Tj = -15°C</td> <td>COPd</td> <td style="color: red;">-</td> <td>-</td> </tr> <tr> <td>Bivalent temperature</td> <td>Tbiv</td> <td style="color: red;">-7</td> <td>°C</td> <td>For air-to-water heat pumps: Operation limit temperature</td> <td>TOL</td> <td style="color: red;">-10</td> <td>°C</td> </tr> <tr> <td>Cycling interval capacity for heating</td> <td>P_{cyh}</td> <td style="color: red;">-</td> <td>kW</td> <td>Cycling interval efficiency</td> <td>COP_{cyh}</td> <td style="color: red;">-</td> <td>-</td> </tr> <tr> <td>Degradation co-efficient (**)</td> <td>Cdh</td> <td style="color: red;">0.9</td> <td>--</td> <td>Heating water operating limit temperature</td> <td>WTOL</td> <td style="color: red;">60</td> <td>°C</td> </tr> <tr> <td colspan="4" style="background-color: #e0f0e0;">Power consumption in modes other than active mode</td> <td colspan="4" style="background-color: #e0f0e0;">Supplementary heater</td> </tr> <tr> <td>Off mode</td> <td>P_{off}</td> <td style="color: red;">0.014</td> <td>kW</td> <td>Rated heat output (**)</td> <td>P_{sup}</td> <td style="color: red;">1.18</td> <td>kW</td> </tr> <tr> <td>Standby mode</td> <td>P_{sb}</td> <td style="color: red;">0.014</td> <td>kW</td> <td>Type of energy input</td> <td colspan="3" style="text-align: center;">Electrical</td> </tr> <tr> <td>Thermostat-off mode</td> <td>P_{to}</td> <td style="color: red;">0.024</td> <td>kW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Crankcase heater mode</td> <td>P_{ck}</td> <td style="color: red;">0.000</td> <td>kW</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="4" style="background-color: #e0f0e0;">Other items</td> <td colspan="4"></td> </tr> <tr> <td>Capacity control</td> <td colspan="3" style="text-align: center;">variable</td> <td>For air-to-water heat pumps: Rated air flow rate, outdoors</td> <td style="text-align: center;">-</td> <td style="color: red;">2770</td> <td>m³/h</td> </tr> <tr> <td>Sound power level, indoors/outdoors</td> <td>LWA</td> <td style="color: red;">-58</td> <td>dB</td> <td>For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger</td> <td style="text-align: center;">-</td> <td style="color: red;">-</td> <td>m³/h</td> </tr> <tr> <td>Annual energy consumption</td> <td>Q_{HE}</td> <td style="color: red;">3345</td> <td>kWh</td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td colspan="8" style="background-color: #e0f0e0;">For heat pump combination heater:</td> </tr> <tr> <td>Declared load profile</td> <td colspan="3" style="text-align: center;">-</td> <td>Water heating energy efficiency</td> <td>η_{wh}</td> <td style="color: red;">-</td> <td>%</td> </tr> <tr> <td>Daily electricity consumption</td> <td>Q_{elec}</td> <td style="color: red;">-</td> <td>kWh</td> <td>Daily fuel consumption</td> <td>Q_{fuel}</td> <td style="color: red;">-</td> <td>kWh</td> </tr> <tr> <td>Annual electricity 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For heat pump combination heater:																																																																																																																																																																																																																																															
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%																																																																																																																																																																																																																																								
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh																																																																																																																																																																																																																																								
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ																																																																																																																																																																																																																																								
Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)																																																																																																																																																																																																																																														
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).																																																																																																																																																																																																																																															
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.																																																																																																																																																																																																																																															

Technical parameters

Model(s):	MDVC-V6WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	4.3	kW	Seasonal space heating energy efficiency	η_s	111.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	2.70	kW	Tj = -7 °C	COPd	2.46	-
Tj = 2 °C	Pdh	1.60	kW	Tj = 2 °C	COPd	3.36	-
Tj = 7 °C	Pdh	1.02	kW	Tj = 7 °C	COPd	3.94	-
Tj = 12 °C	Pdh	1.37	kW	Tj = 12 °C	COPd	6.35	-
Tj = bivalent temperature	Pdh	3.47	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	2.09	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	5.10	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	3681	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V6W/D2N8-B
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.1	kW	Seasonal space heating energy efficiency	η_s	164.7	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	5.02	kW	Tj = 2°C	COPd	2.48	-
Tj = 7°C	Pdh	3.31	kW	Tj = 7°C	COPd	3.67	-
Tj = 12°C	Pdh	1.60	kW	Tj = 12°C	COPd	5.29	-
Tj = bivalent temperature	Pdh	3.31	kW	Tj = bivalent temperature	COPd	3.67	-
Tj = operating limit	Pdh	5.02	kW	Tj = operating limit	COPd	2.48	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	1640	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	2770	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MHC-V8W/D2N8-B
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.6	kW	Seasonal space heating energy efficiency	η_s	131.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	5.84	kW	Tj = -7°C	COPd	2.16	-
Tj = 2°C	Pdh	3.75	kW	Tj = 2°C	COPd	3.30	-
Tj = 7°C	Pdh	2.42	kW	Tj = 7°C	COPd	4.34	-
Tj = 12°C	Pdh	1.39	kW	Tj = 12°C	COPd	5.33	-
Tj = bivalent temperature	Pdh	5.84	kW	Tj = bivalent temperature	COPd	2.16	-
Tj = operating limit	Pdh	4.90	kW	Tj = operating limit	COPd	1.84	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COP _{eyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.69	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-59	dB
Annual energy consumption	Q _{HE}	4056	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

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(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V8WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	5.8	kW	Seasonal space heating energy efficiency	η_s	112.0	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	3.86	kW	Tj = -7°C	COPd	2.48	-
Tj = 2°C	Pdh	2.21	kW	Tj = 2°C	COPd	3.35	-
Tj = 7°C	Pdh	1.44	kW	Tj = 7°C	COPd	4.11	-
Tj = 12°C	Pdh	1.46	kW	Tj = 12°C	COPd	5.92	-
Tj = bivalent temperature	Pdh	4.71	kW	Tj = bivalent temperature	COPd	1.90	-
Tj = operating limit	Pdh	2.80	kW	Tj = operating limit	COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COP _{eyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	2.97	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	L _{WA}	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	Q _{HE}	4950	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V8WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.6	kW	Seasonal space heating energy efficiency	η_s	175.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	7.55	kW	Tj = 2 °C	COPd	2.59	-
Tj = 7 °C	Pdh	4.86	kW	Tj = 7 °C	COPd	3.92	-
Tj = 12 °C	Pdh	2.31	kW	Tj = 12 °C	COPd	5.55	-
Tj = bivalent temperature	Pdh	4.86	kW	Tj = bivalent temperature	COPd	3.92	-
Tj = operating limit	Pdh	7.55	kW	Tj = operating limit	COPd	2.59	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	2259	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qclec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V10WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	7.7	kW	Seasonal space heating energy efficiency	η_s	136.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.78	kW	Tj = -7°C	COPd	2.24	-
Tj = 2°C	Pdh	4.28	kW	Tj = 2°C	COPd	3.42	-
Tj = 7°C	Pdh	2.77	kW	Tj = 7°C	COPd	4.52	-
Tj = 12°C	Pdh	1.58	kW	Tj = 12°C	COPd	5.68	-
Tj = bivalent temperature	Pdh	6.78	kW	Tj = bivalent temperature	COPd	2.24	-
Tj = operating limit	Pdh	5.38	kW	Tj = operating limit	COPd	1.83	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	2.29	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-60	dB
Annual energy consumption	Q _{HE}	4539	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V10WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	6.7	kW	Seasonal space heating energy efficiency	η_s	116.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	4.27	kW	Tj = -7°C	COPd	2.54	-
Tj = 2°C	Pdh	2.57	kW	Tj = 2°C	COPd	3.51	-
Tj = 7°C	Pdh	1.65	kW	Tj = 7°C	COPd	4.37	-
Tj = 12°C	Pdh	1.47	kW	Tj = 12°C	COPd	5.96	-
Tj = bivalent temperature	Pdh	5.47	kW	Tj = bivalent temperature	COPd	2.00	-
Tj = operating limit	Pdh	2.80	kW	Tj = operating limit	COPd	1.22	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WtOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	3.91	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	5540	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V10WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	8.6	kW	Seasonal space heating energy efficiency	η_s	180.3	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	8.06	kW	Tj = 2°C	COPd	2.59	-
Tj = 7°C	Pdh	5.54	kW	Tj = 7°C	COPd	4.10	-
Tj = 12°C	Pdh	2.53	kW	Tj = 12°C	COPd	5.82	-
Tj = bivalent temperature	Pdh	5.54	kW	Tj = bivalent temperature	COPd	4.10	-
Tj = operating limit	Pdh	8.15	kW	Tj = operating limit	COPd	2.61	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{psych}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	C _{dh}	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	0.48	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	Q _{HE}	2516	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4030	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V12WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	η_{s}	135.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.24	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Tj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Tj = 12°C	Pdh	3.29	kW	Tj = 12°C	COPd	6.05	-
Tj = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.10	kW	Tj = operating limit	COPd	1.79	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	1.23	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.024	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-65	dB
Annual energy consumption	Q _{HE}	6927	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd
(Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V12WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.3	kW	Seasonal space heating energy efficiency	η_s	117.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.63	kW	Tj = -7°C	COPd	2.63	-
Tj = 2°C	Pdh	4.06	kW	Tj = 2°C	COPd	3.60	-
Tj = 7°C	Pdh	2.78	kW	Tj = 7°C	COPd	4.54	-
Tj = 12°C	Pdh	3.33	kW	Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operating limit	Pdh	4.19	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.11	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	8419	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V12WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	η_s	174.0	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	12.07	kW	Tj = 2°C	COPd	2.31	-
Tj = 7°C	Pdh	8.04	kW	Tj = 7°C	COPd	3.86	-
Tj = 12°C	Pdh	3.75	kW	Tj = 12°C	COPd	5.70	-
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.43	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	3776	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V14WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.08	kW	Seasonal space heating energy efficiency	η_s	135.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.68	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.86	kW	Tj = 2°C	COPd	3.43	-
Tj = 7°C	Pdh	4.63	kW	Tj = 7°C	COPd	4.66	-
Tj = 12°C	Pdh	3.31	kW	Tj = 12°C	COPd	6.13	-
Tj = bivalent temperature	Pdh	10.68	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.19	kW	Tj = operating limit	COPd	1.76	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	1.40	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	7202	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qclec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V14WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.0	kW	Seasonal space heating energy efficiency	η_s	118.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.89	kW	Tj = -7°C	COPd	2.66	-
Tj = 2°C	Pdh	4.32	kW	Tj = 2°C	COPd	3.66	-
Tj = 7°C	Pdh	3.06	kW	Tj = 7°C	COPd	4.72	-
Tj = 12°C	Pdh	3.33	kW	Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	-
Tj = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.80	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	8866	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V14WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.7	kW	Seasonal space heating energy efficiency	η_s	176.5	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	13.04	kW	Tj = 2°C	COPd	2.20	-
Tj = 7°C	Pdh	8.83	kW	Tj = 7°C	COPd	3.91	-
Tj = 12°C	Pdh	4.08	kW	Tj = 12°C	COPd	5.90	-
Tj = bivalent temperature	Pdh	8.83	kW	Tj = bivalent temperature	COPd	3.91	-
Tj = operating limit	Pdh	13.04	kW	Tj = operating limit	COPd	2.20	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.66	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	4088	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V16WD2ER8-A																																																																																																																																																																																																																																										
Air-to-water heat pump:	YES																																																																																																																																																																																																																																										
Water-to-water heat pump:	NO																																																																																																																																																																																																																																										
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<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Item</th> <th style="width: 10%;">Symbol</th> <th style="width: 10%;">Value</th> <th style="width: 10%;">Unit</th> <th style="width: 25%;">Item</th> <th style="width: 10%;">Symbol</th> <th style="width: 10%;">Value</th> <th style="width: 10%;">Unit</th> </tr> </thead> <tbody> <tr> <td>Rated heat output (*)</td> <td>Prated</td> <td style="color: red;">13.0</td> <td>kW</td> <td>Seasonal space heating energy efficiency</td> <td>η_s</td> <td style="color: red;">133.3</td> <td>%</td> </tr> <tr> <td colspan="4">Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj</td> <td colspan="4">Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj</td> </tr> <tr> <td>Tj = -7°C</td> <td>Pdh</td> <td style="color: red;">11.52</td> <td>kW</td> <td>Tj = -7°C</td> <td>COPd</td> <td style="color: red;">1.99</td> <td>-</td> </tr> <tr> <td>Tj = 2°C</td> <td>Pdh</td> <td style="color: red;">7.18</td> <td>kW</td> <td>Tj = 2°C</td> <td>COPd</td> <td style="color: red;">3.34</td> <td>-</td> </tr> <tr> <td>Tj = 7°C</td> <td>Pdh</td> <td style="color: red;">4.67</td> <td>kW</td> <td>Tj = 7°C</td> <td>COPd</td> <td style="color: red;">4.61</td> <td>-</td> </tr> <tr> <td>Tj = 12°C</td> <td>Pdh</td> <td style="color: red;">3.31</td> <td>kW</td> <td>Tj = 12°C</td> <td>COPd</td> <td style="color: red;">6.07</td> <td>-</td> </tr> <tr> <td>Tj = bivalent temperature</td> <td>Pdh</td> <td style="color: red;">11.52</td> <td>kW</td> <td>Tj = bivalent temperature</td> <td>COPd</td> <td style="color: red;">1.99</td> <td>-</td> </tr> <tr> <td>Tj = operating limit</td> <td>Pdh</td> <td style="color: red;">10.33</td> <td>kW</td> <td>Tj = operating limit</td> <td>COPd</td> <td style="color: red;">1.80</td> <td>-</td> </tr> <tr> <td>For air-to-water heat pumps: Tj = -15°C</td> <td>Pdh</td> <td style="color: red;">-</td> <td>kW</td> <td>For air-to-water heat pumps: Tj = -15°C</td> <td>COPd</td> <td style="color: red;">-</td> <td>-</td> </tr> <tr> <td>Bivalent temperature</td> <td>Tbiv</td> <td style="color: red;">-7</td> <td>°C</td> <td>For air-to-water heat pumps: Operation limit temperature</td> <td>TOL</td> <td style="color: red;">-10</td> <td>°C</td> </tr> <tr> <td>Cycling interval capacity for heating</td> <td>Pcyc</td> <td style="color: red;">-</td> <td>kW</td> <td>Cycling interval efficiency</td> <td>COPcyc</td> <td style="color: red;">-</td> <td>-</td> </tr> <tr> <td>Degradation co-efficient (**)</td> <td>Cdh</td> <td style="color: red;">0.9</td> <td>--</td> <td>Heating water operating limit temperature</td> <td>WTOL</td> <td style="color: red;">60</td> <td>°C</td> </tr> <tr> <td colspan="4">Power consumption in modes other than active mode</td> <td colspan="4">Supplementary heater</td> </tr> <tr> <td>Off mode</td> <td>Poff</td> <td style="color: red;">0.014</td> <td>kW</td> <td>Rated heat output (**)</td> <td>Psup</td> <td style="color: red;">2.68</td> <td>kW</td> </tr> <tr> <td>Standby mode</td> <td>Psb</td> <td style="color: red;">0.014</td> <td>kW</td> <td>Type of energy input</td> <td colspan="3" style="text-align: center;">Electrical</td> </tr> <tr> <td>Thermostat-off mode</td> <td>Pto</td> <td style="color: red;">0.024</td> <td>kW</td> <td colspan="4"></td> </tr> <tr> <td>Crankcase heater mode</td> <td>Pck</td> <td style="color: red;">0.000</td> <td>kW</td> <td colspan="4"></td> </tr> <tr> <td colspan="4">Other items</td> <td colspan="4"></td> </tr> <tr> <td>Capacity control</td> <td colspan="3" style="text-align: center;">variable</td> <td>For air-to-water heat pumps: Rated air flow rate, outdoors</td> <td style="text-align: center;">-</td> <td style="color: red;">4650</td> <td>m³/h</td> </tr> <tr> <td>Sound power level, indoors/outdoors</td> <td>LWA</td> <td style="color: red;">-68</td> <td>dB</td> <td>For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger</td> <td style="text-align: center;">-</td> <td style="color: red;">-</td> <td>m³/h</td> </tr> <tr> <td>Annual energy consumption</td> <td>QHE</td> <td style="color: red;">7895</td> <td>kWh</td> <td colspan="4"></td> </tr> <tr> <td colspan="4">For heat pump combination heater:</td> <td colspan="4"></td> </tr> <tr> <td>Declared load profile</td> <td colspan="3" style="text-align: center;">-</td> <td>Water heating energy efficiency</td> <td>η_{wh}</td> <td style="text-align: center;">-</td> <td>%</td> </tr> <tr> <td>Daily electricity consumption</td> <td>Qelec</td> <td style="text-align: center;">-</td> <td>kWh</td> <td>Daily fuel consumption</td> <td>Qfuel</td> <td style="text-align: center;">-</td> <td>kWh</td> </tr> <tr> <td>Annual electricity consumption</td> <td>AEC</td> <td style="text-align: center;">-</td> <td>kWh</td> <td>Annual fuel consumption</td> <td>AFC</td> <td style="text-align: center;">-</td> <td>GJ</td> </tr> <tr> <td>Contact details</td> <td colspan="7">GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)</td> </tr> <tr> <td colspan="8">(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).</td> </tr> <tr> <td colspan="8">(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.</td> </tr> </tbody> </table>				Item	Symbol	Value	Unit	Item	Symbol	Value	Unit	Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	η_s	133.3	%	Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj				Tj = -7°C	Pdh	11.52	kW	Tj = -7°C	COPd	1.99	-	Tj = 2°C	Pdh	7.18	kW	Tj = 2°C	COPd	3.34	-	Tj = 7°C	Pdh	4.67	kW	Tj = 7°C	COPd	4.61	-	Tj = 12°C	Pdh	3.31	kW	Tj = 12°C	COPd	6.07	-	Tj = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	-	Tj = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	-	For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-	Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C	Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-	Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C	Power consumption in modes other than active mode				Supplementary heater				Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	2.68	kW	Standby mode	Psb	0.014	kW	Type of energy input	Electrical			Thermostat-off mode	Pto	0.024	kW					Crankcase heater mode	Pck	0.000	kW					Other items								Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h	Sound power level, indoors/outdoors	LWA	-68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h	Annual energy consumption	QHE	7895	kWh					For heat pump combination heater:								Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%	Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh	Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ	Contact details	GD Midea Heating & Ventilating Equipment Co. 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Sound power level, indoors/outdoors	LWA	-68	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h																																																																																																																																																																																																																																				
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Technical parameters

Model(s):	MDVC-V16WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	η_s	121.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	7.64	kW	Tj = -7°C	COPd	2.65	-
Tj = 2°C	Pdh	4.42	kW	Tj = 2°C	COPd	3.79	-
Tj = 7°C	Pdh	2.97	kW	Tj = 7°C	COPd	4.81	-
Tj = 12°C	Pdh	3.43	kW	Tj = 12°C	COPd	6.29	-
Tj = bivalent temperature	Pdh	9.61	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	5.21	kW	Tj = operating limit	COPd	1.23	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	6.59	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	9309	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V16WD2ER8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	η_s	176.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	13.38	kW	Tj = 2°C	COPd	2.29	-
Tj = 7°C	Pdh	8.86	kW	Tj = 7°C	COPd	3.84	-
Tj = 12°C	Pdh	4.06	kW	Tj = 12°C	COPd	5.86	-
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.014	kW	Rated heat output (**)	Psup	0.42	kW
Standby mode	Psb	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.024	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	4112	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V12WD2BR8-A						
Air-to-water heat pump:	YES						
Water-to-water heat pump:	NO						
Brine-to-water heat pump:	NO						
Low-temperature heat pump:	NO						
Equipped with a supplementary heater:	NO						
Heat pump combination heater:	NO						
Declared climate condition:	AVERAGE						
Parameters are declared for medium-temperature application.							
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.6	kW	Seasonal space heating energy efficiency	η_s	135.1	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.24	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.52	kW	Tj = 2°C	COPd	3.44	-
Tj = 7°C	Pdh	4.36	kW	Tj = 7°C	COPd	4.59	-
Tj = 12°C	Pdh	3.29	kW	Tj = 12°C	COPd	6.05	-
Tj = bivalent temperature	Pdh	10.24	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.10	kW	Tj = operating limit	COPd	1.79	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.020	kW	Rated heat output (**)	P _{sup}	1.23	kW
Standby mode	P _{sb}	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.030	kW				
Crankcase heater mode	P _{ck}	0.000	kW				
Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	L _{WA}	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	Q _{HE}	6928	kWh				
For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Q _{elec}	-	kWh	Daily fuel consumption	Q _{fuel}	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ
Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)						
(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).							
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.							

Technical parameters

Model(s):	MDVC-V12WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	10.3	kW	Seasonal space heating energy efficiency	η_s	117.7	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.63	kW	Tj = -7°C	COPd	2.63	-
Tj = 2°C	Pdh	4.06	kW	Tj = 2°C	COPd	3.60	-
Tj = 7°C	Pdh	2.78	kW	Tj = 7°C	COPd	4.54	-
Tj = 12°C	Pdh	3.33	kW	Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.41	kW	Tj = bivalent temperature	COPd	1.84	-
Tj = operating limit	Pdh	4.19	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	6.11	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	8420	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency			
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details	GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)
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(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V12WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.5	kW	Seasonal space heating energy efficiency	η_s	173.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7 °C	Pdh	-	kW	Tj = -7 °C	COPd	-	-
Tj = 2 °C	Pdh	12.07	kW	Tj = 2 °C	COPd	2.31	-
Tj = 7 °C	Pdh	8.04	kW	Tj = 7 °C	COPd	3.86	-
Tj = 12 °C	Pdh	3.75	kW	Tj = 12 °C	COPd	5.70	-
Tj = bivalent temperature	Pdh	8.04	kW	Tj = bivalent temperature	COPd	3.86	-
Tj = operating limit	Pdh	12.07	kW	Tj = operating limit	COPd	2.31	-
For air-to-water heat pumps: Tj = -15 °C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15 °C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	0.43	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-	dB
Annual energy consumption	QHE	3780	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V14WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	12.08	kW	Seasonal space heating energy efficiency	η_s	135.6	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	10.68	kW	Tj = -7°C	COPd	2.01	-
Tj = 2°C	Pdh	6.86	kW	Tj = 2°C	COPd	3.43	-
Tj = 7°C	Pdh	4.63	kW	Tj = 7°C	COPd	4.66	-
Tj = 12°C	Pdh	3.31	kW	Tj = 12°C	COPd	6.13	-
Tj = bivalent temperature	Pdh	10.68	kW	Tj = bivalent temperature	COPd	2.01	-
Tj = operating limit	Pdh	9.19	kW	Tj = operating limit	COPd	1.76	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	1.40	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-65	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	7203	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).

(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V14WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.0	kW	Seasonal space heating energy efficiency	η_s	118.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	6.89	kW	Tj = -7°C	COPd	2.66	-
Tj = 2°C	Pdh	4.32	kW	Tj = 2°C	COPd	3.66	-
Tj = 7°C	Pdh	3.06	kW	Tj = 7°C	COPd	4.72	-
Tj = 12°C	Pdh	3.33	kW	Tj = 12°C	COPd	6.25	-
Tj = bivalent temperature	Pdh	8.94	kW	Tj = bivalent temperature	COPd	1.79	-
Tj = operating limit	Pdh	4.20	kW	Tj = operating limit	COPd	1.13	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	6.80	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	8867	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V14WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.7	kW	Seasonal space heating energy efficiency	η_s	176.4	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	13.04	kW	Tj = 2°C	COPd	2.20	-
Tj = 7°C	Pdh	8.83	kW	Tj = 7°C	COPd	3.91	-
Tj = 12°C	Pdh	4.08	kW	Tj = 12°C	COPd	5.90	-
Tj = bivalent temperature	Pdh	8.83	kW	Tj = bivalent temperature	COPd	3.91	-
Tj = operating limit	Pdh	13.04	kW	Tj = operating limit	COPd	2.20	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	0.66	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4060	m ³ /h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h
Annual energy consumption	QHE	4092	kWh				

For heat pump combination heater:

Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qelec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V16WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	AVERAGE

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.0	kW	Seasonal space heating energy efficiency	η_s	133.2	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	11.52	kW	Tj = -7°C	COPd	1.99	-
Tj = 2°C	Pdh	7.18	kW	Tj = 2°C	COPd	3.34	-
Tj = 7°C	Pdh	4.67	kW	Tj = 7°C	COPd	4.61	-
Tj = 12°C	Pdh	3.31	kW	Tj = 12°C	COPd	6.07	-
Tj = bivalent temperature	Pdh	11.52	kW	Tj = bivalent temperature	COPd	1.99	-
Tj = operating limit	Pdh	10.33	kW	Tj = operating limit	COPd	1.80	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-10	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	60	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	2.67	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	LWA	-68	dB
Annual energy consumption	QHE	7896	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Qelec	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Qfuel	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V16WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	COLDER
Parameters are declared for medium-temperature application.	

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	11.8	kW	Seasonal space heating energy efficiency	η_s	121.8	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	7.64	kW	Tj = -7°C	COPd	2.65	-
Tj = 2°C	Pdh	4.42	kW	Tj = 2°C	COPd	3.79	-
Tj = 7°C	Pdh	2.97	kW	Tj = 7°C	COPd	4.81	-
Tj = 12°C	Pdh	3.43	kW	Tj = 12°C	COPd	6.29	-
Tj = bivalent temperature	Pdh	9.61	kW	Tj = bivalent temperature	COPd	1.86	-
Tj = operating limit	Pdh	5.21	kW	Tj = operating limit	COPd	1.23	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	-15	°C	For air-to-water heat pumps: Operation limit temperature	TOL	-22	°C
Cycling interval capacity for heating	Pcyc	-	kW	Cycling interval efficiency	COPcyc	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	51	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	Poff	0.020	kW	Rated heat output (**)	Psup	6.59	kW
Standby mode	Psb	0.020	kW	Type of energy input	Electrical		
Thermostat-off mode	Pto	0.030	kW				
Crankcase heater mode	Pck	0.000	kW				

Other items							
Capacity control	variable			For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m³/h
Sound power level, indoors/outdoors	LWA	-	dB	For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m³/h
Annual energy consumption	QHE	9310	kWh				

For heat pump combination heater:							
Declared load profile	-			Water heating energy efficiency	η_{wh}	-	%
Daily electricity consumption	Qdec	-	kWh	Daily fuel consumption	Qfuel	-	kWh
Annual electricity consumption	AEC	-	kWh	Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
(**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Technical parameters

Model(s):	MDVC-V16WD2BR8-A
Air-to-water heat pump:	YES
Water-to-water heat pump:	NO
Brine-to-water heat pump:	NO
Low-temperature heat pump:	NO
Equipped with a supplementary heater:	NO
Heat pump combination heater:	NO
Declared climate condition:	WARMER

Parameters are declared for medium-temperature application.

Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated heat output (*)	Prated	13.8	kW	Seasonal space heating energy efficiency	η_s	175.9	%
Declared capacity for heating for part load at indoor temperature 20 °C and outdoor temperature Tj				Declared coefficient of performance or primary energy ratio for part load at indoor temperature 20 °C and outdoor temperature Tj			
Tj = -7°C	Pdh	-	kW	Tj = -7°C	COPd	-	-
Tj = 2°C	Pdh	13.38	kW	Tj = 2°C	COPd	2.29	-
Tj = 7°C	Pdh	8.86	kW	Tj = 7°C	COPd	3.84	-
Tj = 12°C	Pdh	4.06	kW	Tj = 12°C	COPd	5.86	-
Tj = bivalent temperature	Pdh	8.86	kW	Tj = bivalent temperature	COPd	3.84	-
Tj = operating limit	Pdh	13.38	kW	Tj = operating limit	COPd	2.29	-
For air-to-water heat pumps: Tj = -15°C	Pdh	-	kW	For air-to-water heat pumps: Tj = -15°C	COPd	-	-
Bivalent temperature	Tbiv	7	°C	For air-to-water heat pumps: Operation limit temperature	TOL	2	°C
Cycling interval capacity for heating	P _{cyc}	-	kW	Cycling interval efficiency	COP _{cyc}	-	-
Degradation co-efficient (**)	Cdh	0.9	--	Heating water operating limit temperature	WTOL	62	°C
Power consumption in modes other than active mode				Supplementary heater			
Off mode	P _{off}	0.014	kW	Rated heat output (**)	P _{sup}	0.42	kW
Standby mode	P _{sb}	0.014	kW	Type of energy input	Electrical		
Thermostat-off mode	P _{to}	0.029	kW				
Crankcase heater mode	P _{ck}	0.000	kW				

Other items			
Capacity control	variable		
Sound power level, indoors/outdoors	L _{WA}	-	dB
Annual energy consumption	Q _{HE}	4116	kWh
For air-to-water heat pumps: Rated air flow rate, outdoors	-	4650	m ³ /h
For water-or brine-to-water heat pumps: Rated brine or water flow rate, outdoor heat exchanger	-	-	m ³ /h

For heat pump combination heater:			
Declared load profile	-		
Daily electricity consumption	Q _{elec}	-	kWh
Annual electricity consumption	AEC	-	kWh
Water heating energy efficiency	η_{wh}	-	%
Daily fuel consumption	Q _{fuel}	-	kWh
Annual fuel consumption	AFC	-	GJ

Contact details: GD Midea Heating & Ventilating Equipment Co. Ltd (Penglai industry road, Beijiao, Shunde, Foshan, Guangdong, P.R China)

(*) For heat pump space heaters and heat pump combination heaters, the rated heat output Prated is equal to the design load for heating Pdesignh, and the rated heat output of a supplementary heater Psup is equal to the supplementary capacity for heating sup(Tj).
 (**) If Cdh is not determined by measurement then the default degradation coefficient is Cdh = 0,9.

Information requirements for comfort chillers

Model(s):	MDVC-V4WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{Rated,c}}$	4.7	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	196.5	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	4.66	kW	$T_j=+35^\circ\text{C}$	EER_d	3.52	-
$T_j=+30^\circ\text{C}$	P_{dc}	3.66	kW	$T_j=+30^\circ\text{C}$	EER_d	4.76	-
$T_j=+25^\circ\text{C}$	P_{dc}	2.21	kW	$T_j=+25^\circ\text{C}$	EER_d	5.72	-
$T_j=+20^\circ\text{C}$	P_{dc}	0.94	kW	$T_j=+20^\circ\text{C}$	EER_d	5.72	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-56	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V4WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	4.5	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	307.7	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	4.51	kW	$T_j=+35^{\circ}\text{C}$	EER_d	5.54	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	3.44	kW	$T_j=+30^{\circ}\text{C}$	EER_d	7.23	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	2.19	kW	$T_j=+25^{\circ}\text{C}$	EER_d	8.94	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	1.13	kW	$T_j=+20^{\circ}\text{C}$	EER_d	10.48	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m^3/h
Sound power level, indoors / outdoors	LWA	-56	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V6WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	6.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	210.7	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	6.35	kW	$T_j=+35^{\circ}\text{C}$	EER_d	2.93	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	4.76	kW	$T_j=+30^{\circ}\text{C}$	EER_d	4.53	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	3.02	kW	$T_j=+25^{\circ}\text{C}$	EER_d	6.32	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	1.39	kW	$T_j=+20^{\circ}\text{C}$	EER_d	7.20	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m ³ /h
Sound power level, indoors /outdoors	L_{WA}	-60	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V6WD2ER8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	6.5	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	325.2	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	6.55	kW	$T_j=+35^\circ\text{C}$	EER_d	4.69	-
$T_j=+30^\circ\text{C}$	P_{dc}	4.84	kW	$T_j=+30^\circ\text{C}$	EER_d	7.16	-
$T_j=+25^\circ\text{C}$	P_{dc}	3.26	kW	$T_j=+25^\circ\text{C}$	EER_d	9.64	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.41	kW	$T_j=+20^\circ\text{C}$	EER_d	11.48	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	2770	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/58	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V8WD2ER8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	7.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	230.1	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	7.38	kW	$T_j=+35^\circ\text{C}$	EER_d	3.39	-
$T_j=+30^\circ\text{C}$	P_{dc}	5.72	kW	$T_j=+30^\circ\text{C}$	EER_d	4.71	-
$T_j=+25^\circ\text{C}$	P_{dc}	3.62	kW	$T_j=+25^\circ\text{C}$	EER_d	6.65	-
$T_j=+20^\circ\text{C}$	P_{dc}	1.64	kW	$T_j=+20^\circ\text{C}$	EER_d	8.55	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-60	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V8WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	8.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	355.1	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	8.37	kW	$T_j=+35^{\circ}\text{C}$	EER_d	5.09	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	6.47	kW	$T_j=+30^{\circ}\text{C}$	EER_d	7.02	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	4.31	kW	$T_j=+25^{\circ}\text{C}$	EER_d	10.67	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	1.80	kW	$T_j=+20^{\circ}\text{C}$	EER_d	13.61	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-60	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V10WD2ER8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	8.7	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	236.2	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	8.73	kW	$T_j=+35^{\circ}\text{C}$	EER_d	3.21	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	6.68	kW	$T_j=+30^{\circ}\text{C}$	EER_d	4.47	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	4.26	kW	$T_j=+25^{\circ}\text{C}$	EER_d	7.02	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	1.94	kW	$T_j=+20^{\circ}\text{C}$	EER_d	9.54	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/60	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V10WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	10.0	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	348.1	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	10.01	kW	$T_j=+35^\circ\text{C}$	EER_d	4.64	-
$T_j=+30^\circ\text{C}$	P_{dc}	7.71	kW	$T_j=+30^\circ\text{C}$	EER_d	6.45	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.03	kW	$T_j=+25^\circ\text{C}$	EER_d	10.36	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.32	kW	$T_j=+20^\circ\text{C}$	EER_d	14.98	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4030	m^3/h
Sound power level, indoors /outdoors	L_{WA}	-60	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V12WD2ER8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{\text{rated,c}}$	11.3	kW	Seasonal space cooling energy efficiency	$\eta_{\text{s,c}}$	192.4	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	11.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.61	-
$T_j=+30^\circ\text{C}$	P_{dc}	8.76	kW	$T_j=+30^\circ\text{C}$	EER _d	3.93	-
$T_j=+25^\circ\text{C}$	P_{dc}	5.81	kW	$T_j=+25^\circ\text{C}$	EER _d	5.73	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.63	kW	$T_j=+20^\circ\text{C}$	EER _d	6.75	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	-65	dB				
Emissions of nitrogen oxides (if applicable)	NO_x (**)	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):				MDVC-V12WD2ER8-A			
Outdoor side heat exchanger of chiller:				Air to water			
Indoor side heat exchanger chiller:				Water			
Type:				Compressor driven vapour compression			
Driver of compressor:				Electric motor			
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	280.9	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	11.77	kW	$T_j=+35^{\circ}\text{C}$	EER _d	3.87	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	9.21	kW	$T_j=+30^{\circ}\text{C}$	EER _d	5.50	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	5.74	kW	$T_j=+25^{\circ}\text{C}$	EER _d	8.66	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.33	kW	$T_j=+20^{\circ}\text{C}$	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	-/64	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V14WD2ER8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
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	$\eta_{s,c}$	191.4	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.19	kW	$T_j=+35^\circ\text{C}$	EER _d	2.46	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.41	kW	$T_j=+30^\circ\text{C}$	EER _d	3.85	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.16	kW	$T_j=+25^\circ\text{C}$	EER _d	5.80	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.63	kW	$T_j=+20^\circ\text{C}$	EER _d	6.74	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	LWA	-65	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V14WD2ER8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	272.8	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	13.30	kW	$T_j=+35^{\circ}\text{C}$	EER_d	3.47	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	10.20	kW	$T_j=+30^{\circ}\text{C}$	EER_d	5.26	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	6.57	kW	$T_j=+25^{\circ}\text{C}$	EER_d	8.45	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.33	kW	$T_j=+20^{\circ}\text{C}$	EER_d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-/64	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V16WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	184.4	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	14.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.68	kW	$T_j=+30^\circ\text{C}$	EER _d	3.63	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.76	kW	$T_j=+25^\circ\text{C}$	EER _d	5.27	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.41	kW	$T_j=+20^\circ\text{C}$	EER _d	7.29	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors /outdoors	L_{WA}	-/69	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V16WD2ER8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	15.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	266.9	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	15.40	kW	$T_j=+35^{\circ}\text{C}$	EER_d	3.50	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	11.42	kW	$T_j=+30^{\circ}\text{C}$	EER_d	5.14	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	7.27	kW	$T_j=+25^{\circ}\text{C}$	EER_d	7.83	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.40	kW	$T_j=+20^{\circ}\text{C}$	EER_d	10.35	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.014	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.014	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-69	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V12WD2BR8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	191.2	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	11.31	kW	$T_j=+35^{\circ}\text{C}$	EER _d	2.61	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	8.76	kW	$T_j=+30^{\circ}\text{C}$	EER _d	3.93	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	5.81	kW	$T_j=+25^{\circ}\text{C}$	EER _d	5.73	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	2.63	kW	$T_j=+20^{\circ}\text{C}$	EER _d	6.75	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	LWA	-65	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V12WD2BR8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	11.8	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	278.6	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^{\circ}\text{C}$	P_{dc}	11.77	kW	$T_j=+35^{\circ}\text{C}$	EER _d	3.87	-
$T_j=+30^{\circ}\text{C}$	P_{dc}	9.21	kW	$T_j=+30^{\circ}\text{C}$	EER _d	5.50	-
$T_j=+25^{\circ}\text{C}$	P_{dc}	5.74	kW	$T_j=+25^{\circ}\text{C}$	EER _d	8.66	-
$T_j=+20^{\circ}\text{C}$	P_{dc}	3.33	kW	$T_j=+20^{\circ}\text{C}$	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	LWA	-/64	dB				
Emissions of nitrogen oxides (if applicable)	NO _x (**)	-	mg/kWh input GCV	For water /brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V14WD2BR8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
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	$\eta_{s,c}$	190.3	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	12.19	kW	$T_j=+35^\circ\text{C}$	EER_d	2.46	-
$T_j=+30^\circ\text{C}$	P_{dc}	9.41	kW	$T_j=+30^\circ\text{C}$	EER_d	3.85	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.16	kW	$T_j=+25^\circ\text{C}$	EER_d	5.80	-
$T_j=+20^\circ\text{C}$	P_{dc}	2.63	kW	$T_j=+20^\circ\text{C}$	EER_d	6.74	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m^3/h
Sound power level, indoors / outdoors	L_{WA}	-65	dB				
Emissions of nitrogen oxides (if applicable)	$\text{NO}_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m^3/h
GWP of the refrigerant	-	675	kg CO_2 eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):		MDVC-V14WD2BR8-A					
Outdoor side heat exchanger of chiller:		Air to water					
Indoor side heat exchanger chiller:		Water					
Type:		Compressor driven vapour compression					
Driver of compressor:		Electric motor					
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	13.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	270.9	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	13.30	kW	$T_j=+35^\circ\text{C}$	EER _d	3.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.20	kW	$T_j=+30^\circ\text{C}$	EER _d	5.26	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.57	kW	$T_j=+25^\circ\text{C}$	EER _d	8.45	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.33	kW	$T_j=+20^\circ\text{C}$	EER _d	10.07	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4060	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	-64	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V16WD2BR8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	14.3	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	183.6	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	14.31	kW	$T_j=+35^\circ\text{C}$	EER _d	2.47	-
$T_j=+30^\circ\text{C}$	P_{dc}	10.68	kW	$T_j=+30^\circ\text{C}$	EER _d	3.63	-
$T_j=+25^\circ\text{C}$	P_{dc}	6.76	kW	$T_j=+25^\circ\text{C}$	EER _d	5.27	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.41	kW	$T_j=+20^\circ\text{C}$	EER _d	7.29	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	-69	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Low temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Information requirements for comfort chillers

Model(s):	MDVC-V16WD2BR8-A						
Outdoor side heat exchanger of chiller:	Air to water						
Indoor side heat exchanger chiller:	Water						
Type:	Compressor driven vapour compression						
Driver of compressor:	Electric motor						
Item	Symbol	Value	Unit	Item	Symbol	Value	Unit
Rated cooling capacity	$P_{rated,c}$	15.4	kW	Seasonal space cooling energy efficiency	$\eta_{s,c}$	265.3	%
Declared cooling capacity for part load at given outdoor temperature T_j				Declared energy efficiency ratio for part load at given outdoor temperature T_j			
$T_j=+35^\circ\text{C}$	P_{dc}	15.40	kW	$T_j=+35^\circ\text{C}$	EER _d	3.50	-
$T_j=+30^\circ\text{C}$	P_{dc}	11.42	kW	$T_j=+30^\circ\text{C}$	EER _d	5.14	-
$T_j=+25^\circ\text{C}$	P_{dc}	7.27	kW	$T_j=+25^\circ\text{C}$	EER _d	7.83	-
$T_j=+20^\circ\text{C}$	P_{dc}	3.40	kW	$T_j=+20^\circ\text{C}$	EER _d	10.35	-
Degradation co-efficient for chillers (*)	C_{dc}	0.9	-				
Power consumption in modes other than "active mode"							
Off mode	P_{OFF}	0.020	kW	Crankcase heater mode	P_{CK}	0.000	kW
Thermosat-off mode	P_{TO}	0.010	kW	Standby mode	P_{SB}	0.020	kW
Other items							
Capacity control	variable			For air-to-water comfort chillers: air flow rate, outdoor measured	-	4650	m ³ /h
Sound power level, indoors / outdoors	L_{WA}	-/69	dB				
Emissions of nitrogen oxides (if applicable)	$NO_x(**)$	-	mg/kWh input GCV	For water / brine-to-water chillers: Rated brine or water flow rate, outdoor side heat exchanger	-	-	m ³ /h
GWP of the refrigerant	-	675	kg CO ₂ eq (100years)				
Standard rating conditions used	Medium temperature application						
Contact details	GD Midea Heating & Ventilating Equipment Co. , Ltd. Penglai industry Road, Beijiao, Shunde, Foshan, Guangdong, 528311 P.R. China						
(*) If C_{dc} is not determined by measurement then the default degradation coefficient of chillers shall be 0,9. (**) From 26 September 2018.							

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 35/24 Water temperature: 12/7	MDVC-V4WD2ER8-A	4.70	1.36	3.45
	MDVC-V6WD2ER8-A	7.00	2.33	3.00
	MDVC-V8WD2ER8-A	7.45	2.22	3.35
	MDVC-V10WD2ER8-A	8.20	2.52	3.25
	MDVC-V12WD2ER8-A	11.5	4.18	2.75
	MDVC-V14WD2ER8-A	12.4	4.96	2.50
	MDVC-V16WD2ER8-A	14.0	5.60	2.50
	MDVC-V12WD2BR8-A	11.5	4.18	2.75
	MDVC-V14WD2BR8-A	12.4	4.96	2.50
	MDVC-V16WD2BR8-A	14.0	5.60	2.50
Ambient Temperature: 35/24 Water temperature: 23/18	MDVC-V4WD2ER8-A	4.50	0.82	5.50
	MDVC-V6WD2ER8-A	6.50	1.35	4.80
	MDVC-V8WD2ER8-A	8.30	1.64	5.05
	MDVC-V10WD2ER8-A	9.90	2.18	4.55
	MDVC-V12WD2ER8-A	12.00	3.04	3.95
	MDVC-V14WD2ER8-A	13.50	3.75	3.60
	MDVC-V16WD2ER8-A	14.90	4.38	3.40
	MDVC-V12WD2BR8-A	12.00	3.04	3.95
	MDVC-V14WD2BR8-A	13.50	3.75	3.60
	MDVC-V16WD2BR8-A	14.90	4.38	3.40
Ambient Temperature: 7/6 Water temperature: 30/35	MDVC-V4WD2ER8-A	4.20	0.82	5.10
	MDVC-V6WD2ER8-A	6.35	1.28	4.95
	MDVC-V8WD2ER8-A	8.40	1.63	5.15
	MDVC-V10WD2ER8-A	10.0	2.02	4.95
	MDVC-V12WD2ER8-A	12.1	2.44	4.95
	MDVC-V14WD2ER8-A	14.5	3.15	4.60
	MDVC-V16WD2ER8-A	15.9	3.53	4.50
	MDVC-V12WD2BR8-A	12.1	2.44	4.95
	MDVC-V14WD2BR8-A	14.5	3.15	4.60
	MDVC-V16WD2BR8-A	15.9	3.53	4.50
Ambient Temperature: 2/1 Water temperature: 30/35	MDVC-V4WD2ER8-A	4.40	1.10	4.00
	MDVC-V6WD2ER8-A	5.50	1.41	3.90
	MDVC-V8WD2ER8-A	7.10	1.73	4.10
	MDVC-V10WD2ER8-A	8.20	2.05	4.00
	MDVC-V12WD2ER8-A	9.2	2.36	3.90
	MDVC-V14WD2ER8-A	11.0	3.06	3.60
	MDVC-V16WD2ER8-A	13.0	3.77	3.45
	MDVC-V12WD2BR8-A	9.2	2.36	3.90
	MDVC-V14WD2BR8-A	11.0	3.06	3.60
	MDVC-V16WD2BR8-A	13.0	3.77	3.45

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: -7/-8 Water temperature: 30/35	MDVC-V4WD2ER8-A	4.70	1.52	3.10
	MDVC-V6WD2ER8-A	6.00	2.00	3.00
	MDVC-V8WD2ER8-A	7.00	2.19	3.20
	MDVC-V10WD2ER8-A	8.00	2.62	3.05
	MDVC-V12WD2ER8-A	10.00	3.33	3.00
	MDVC-V14WD2ER8-A	12.00	4.21	2.85
	MDVC-V16WD2ER8-A	13.10	4.85	2.70
	MDVC-V12WD2BR8-A	10.00	3.33	3.00
	MDVC-V14WD2BR8-A	12.00	4.21	2.85
	MDVC-V16WD2BR8-A	13.10	4.85	2.70
Ambient Temperature: 7/6 Water temperature: 40/45	MDVC-V4WD2ER8-A	4.30	1.13	3.80
	MDVC-V6WD2ER8-A	6.30	1.70	3.70
	MDVC-V8WD2ER8-A	8.10	2.10	3.85
	MDVC-V10WD2ER8-A	10.0	2.67	3.75
	MDVC-V12WD2ER8-A	12.3	3.32	3.70
	MDVC-V14WD2ER8-A	14.1	3.92	3.60
	MDVC-V16WD2ER8-A	16.0	4.57	3.50
	MDVC-V12WD2BR8-A	12.3	3.32	3.70
	MDVC-V14WD2BR8-A	14.1	3.92	3.60
	MDVC-V16WD2BR8-A	16.0	4.57	3.50
Ambient Temperature: 2/1 Water temperature: 40/45	MDVC-V4WD2ER8-A	5.10	1.70	3.00
	MDVC-V6WD2ER8-A	5.80	1.93	3.00
	MDVC-V8WD2ER8-A	7.40	2.28	3.25
	MDVC-V10WD2ER8-A	7.85	2.45	3.20
	MDVC-V12WD2ER8-A	10.60	3.53	3.00
	MDVC-V14WD2ER8-A	11.50	4.04	2.85
	MDVC-V16WD2ER8-A	12.70	4.46	2.85
	MDVC-V12WD2BR8-A	10.60	3.53	3.00
	MDVC-V14WD2BR8-A	11.50	4.04	2.85
	MDVC-V16WD2BR8-A	12.70	4.46	2.85
Ambient Temperature: -7/-8 Water temperature: 40/45	MDVC-V4WD2ER8-A	4.30	1.83	2.35
	MDVC-V6WD2ER8-A	5.40	2.25	2.40
	MDVC-V8WD2ER8-A	6.60	2.59	2.55
	MDVC-V10WD2ER8-A	7.35	2.88	2.55
	MDVC-V12WD2ER8-A	10.20	4.25	2.40
	MDVC-V14WD2ER8-A	11.70	4.98	2.35
	MDVC-V16WD2ER8-A	12.80	5.69	2.25
	MDVC-V12WD2BR8-A	10.20	4.25	2.40
	MDVC-V14WD2BR8-A	11.70	4.98	2.35
	MDVC-V16WD2BR8-A	12.80	5.69	2.25

Condition(°C)	Model	Capacity (kW)	Power input (kW)	EER/COP (/)
Ambient Temperature: 7/6 Water temperature: 47/55	MDVC-V4WD2ER8-A	4.40	1.49	2.95
	MDVC-V6WD2ER8-A	6.00	2.03	2.95
	MDVC-V8WD2ER8-A	7.50	2.36	3.18
	MDVC-V10WD2ER8-A	9.50	3.06	3.10
	MDVC-V12WD2ER8-A	11.9	3.90	3.05
	MDVC-V14WD2ER8-A	13.8	4.68	2.95
	MDVC-V16WD2ER8-A	16.0	5.61	2.85
	MDVC-V12WD2BR8-A	11.9	3.90	3.05
	MDVC-V14WD2BR8-A	13.8	4.68	2.95
	MDVC-V16WD2BR8-A	16.0	5.61	2.85
Ambient Temperature: 2/1 Water temperature: 47/55	MDVC-V4WD2ER8-A	5.10	2.08	2.45
	MDVC-V6WD2ER8-A	5.65	2.31	2.45
	MDVC-V8WD2ER8-A	7.10	2.73	2.60
	MDVC-V10WD2ER8-A	8.10	3.16	2.56
	MDVC-V12WD2ER8-A	11.30	4.52	2.50
	MDVC-V14WD2ER8-A	12.40	5.06	2.45
	MDVC-V16WD2ER8-A	13.30	5.54	2.40
	MDVC-V12WD2BR8-A	11.30	4.52	2.50
	MDVC-V14WD2BR8-A	12.40	5.06	2.45
	MDVC-V16WD2BR8-A	13.30	5.54	2.40
Ambient Temperature: -7/-8 Water temperature: 47/55	MDVC-V4WD2ER8-A	4.00	2.05	1.95
	MDVC-V6WD2ER8-A	5.15	2.58	2.00
	MDVC-V8WD2ER8-A	6.15	3.00	2.05
	MDVC-V10WD2ER8-A	6.85	3.43	2.00
	MDVC-V12WD2ER8-A	9.80	4.78	2.05
	MDVC-V14WD2ER8-A	11.00	5.37	2.05
	MDVC-V16WD2ER8-A	12.50	6.25	2.00
	MDVC-V12WD2BR8-A	9.80	4.78	2.05
	MDVC-V14WD2BR8-A	11.00	5.37	2.05
	MDVC-V16WD2BR8-A	12.50	6.25	2.00

NOTE

A series of horizontal dotted lines for writing notes.

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此页不做菲林，只做说明

1. 材料：封面、封底为120双胶纸，内页为80g双胶纸
2. 尺寸：210*297
3. 颜色：黑白印刷。