

Specifications

DVM S2 High Efficiency Heat Pump (2-Pipe)

- Erp (Ecodesign) compliant and Eurovent certified
- Advanced Flash Injection™ technology
- Active AI Pressure Control
- Active AI Defrost
- Active AI Refrigerant analysis
- Durafin™ Ultra Heat Exchanger Fin
- Optional Slimmer Liquid Pipe
- On-device Inverter Checker™



Model				AM080AXVGGH/EU	AM100AXVGGH/EU	AM120AXVGGH/EU
Power Supply		Φ, #, V, Hz		3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz	3Φ, 4, 380~415 V, 50 Hz
Performance	hp		hp	8	10	12
	Capacity	Cooling	kW	22.4	28.0	33.6
		Heating	kW	22.4	28.0	33.6
	Maximum number of connectable indoor units		ea	14	18	21
	Total capacity of the connected indoor units	Min.	kW	11.2	14.0	16.8
		Max.	kW	29.1	36.4	43.7
Power	Current Input	Cooling	A	11.44	15.97	19.25
		Heating	A	9.09	11.41	14.37
	Current	Minimum SSC value	MVA	3.0	3.4	4.0
		MCA	A	18.0	21.2	25.0
		MFA	A	25	32	32
Energy Efficiency ¹	SEER		W/W	7.2	6.9	6.9
	SCOP		W/W	4.50	4.40	4.56
	ηs.c		%	285	273	273
	ηs.h		%	177	173	179.4
Compressor	Output		kW x n	4.39 x 1	6.67 x 1	6.67 x 1
	Oil	Type	-	PVE	PVE	PVE
		Initial Charge	cc x n	900 x 1	1,100 x 1	1,100 x 1
Fan	Type		-	Propeller	Propeller	Propeller
	Discharge direction		-	Top	Top	Top
	Number of Fans		ea	1	1	1
	Airflow Rate		m ³ /min	164	181	196
			l/s	2,738.00	3,019.00	3,260.00
Fan Motor	External Static Pressure	Max.	mmAq	11	11	11
			Pa	110.00	110.00	110.00
			-	BLDC Motor	BLDC Motor	BLDC Motor
Piping Connections	Type		W x n	TBD	TBD	TBD
	Liquid Pipe		ø, mm	9.52	9.52	12.70
			ø, inch	3/8	3/8	1/2
	Gas Pipe		ø, mm	19.05	22.22	28.58
			ø, inch	3/4	7/8	1 1/8
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.		90	90	90
	Total piping length (System)	Max.		1,000	1,000	1,000
	Level difference (ODU in highest position) ³	Max.		110	110	110
	Level difference (IDU in highest position) ³	Max.		110	110	110
Wiring Connections	Level Difference (IDU-IDU) ³	Max.		50	50	50
	Transmission Cable		mm ²	0.75	0.75	0.75
	Remark		-	F1, F2	F1, F2	F1, F2
Refrigerant	Type		-	R410A (Fluorinated greenhouse gas, GWP=2,088)		
	Factory Charging		kg	7.0	7.0	7.0
			tCO ₂ e	14.62	14.62	14.62
Sound	Sound Pressure ²	Cooling	dB(A)	53	56	61
		Heating	dB(A)	58	60	63
	Sound Power	Cooling	dB(A)	75	78	81
External Dimensions	Net Weight		kg	194	205	205
	Net Dimensions (W x H x D)		mm	930 x 1,695 x 765	930 x 1,695 x 765	930 x 1,695 x 765
Operating Temperature Range	Cooling		°C	-5~50	-5~50	-5~50
	Heating			-25~24	-25~24	-25~24

¹ Performances are based on the following test conditions:
- Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
- Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
- Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

² Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

³ ODU: Outdoor Unit, IDU: Indoor Unit



AM140AXVGGH/EU	AM160AXVGGH/EU	AM180AXVGGH/EU	AM200AXVGGH/EU	AM220AXVGGH/EU	AM240AXVGGH/EU	AM260AXVGGH/EU
3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz	3Φ, 4, 380–415 V, 50 Hz
14	16	18	20	22	24	26
40.0	45.0	50.4	56.0	61.6	67.2	72.8
40.0	45.0	50.4	56.0	61.6	67.2	68.0
26	29	32	36	40	43	47
20.0	22.5	25.2	28.0	30.8	33.6	36.4
52.0	58.5	65.5	72.8	80.1	87.4	94.6
25.44	26.96	26.79	38.63	44.15	48.62	57.61
17.06	19.35	21.14	25.72	27.29	44.20	45.11
4.4	5.2	6.4	7.0	7.4	9.3	10.2
27.0	32.0	39.2	43.0	46.0	55.0	60.0
32	40	50	63	63	63	75
6.7	6.9	7.5	6.5	6.2	5.9	5.4
4.25	4.30	4.80	4.50	4.30	3.90	3.90
265	273	297	257	245	233	213
167	169	189	177	169	153	153
6.67 x 1	8.93 x 1	8.93 x 1	8.93 x 1	6.67 x 2	6.67 x 2	6.67 x 2
PVE	PVE	PVE	PVE	PVE	PVE	PVE
1,100 x 1	1,400 x 1	1,400 x 1	1,400 x 1	1,100 x 2	1,100 x 2	1,100 x 2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Top	Top	Top	Top	Top	Top	Top
2	2	2	2	2	2	2
291	292	313	313	342	365	365
4,852.00	4,866.00	5,209.00	5,209.00	5,698.00	6,089.00	6,089.00
11	11	11	11	11	8	8
110.00	110.00	110.00	110.00	110.00	80.00	80.00
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
TBD	TBD	TBD	TBD	TBD	TBD	TBD
12.70	12.70	15.88	15.88	15.88	15.88	19.05
1/2	1/2	5/8	5/8	5/8	5/8	3/4
28.58	28.58	28.58	28.58	28.58	34.92	34.92
11/8	11/8	11/8	11/8	11/8	13/8	13/8
200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]	200 [220]
90	90	90	90	90	90	90
1,000	1,000	1,000	1,000	1,000	1,000	1,000
110	110	110	110	110	110	110
110	110	110	110	110	110	110
50	50	50	50	50	50	50
0.75	0.75	0.75	0.75	0.75	0.75	0.75
F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2
R410A (Fluorinated greenhouse gas, GWP=2,088)						
8.0	10.5	10.5	10.5	10.5	14.0	14.0
16.70	21.92	21.92	21.92	21.92	29.23	29.23
58	58	59	61	64	65	65
61	61	63	63	65	67	67
81	81	81	84	86	87	87
233	262	268	268	301	325	325
1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765	1,295 x 1,695 x 765
-5~50	-5~50	-5~50	-5~50	-5~50	-5~50	-5~50
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24