

Specifications

DVM S Eco Heat Pump

- Horizontal discharge and rear suction by means of one (4-5 hp) or two (8-14 hp) propeller BLDC Inverter fan(s).
- Each module houses one compressor: Twin BLDC Rotary (4-8 hp) or Inverter Scroll with Flash Injection technology (10-14 hp).
- Compressor micro frequency control with 0.01 Hz step.
- Night Silent Mode available.
- Eurovent certified and ErP (Ecodesign) compliant.
- Four-way direction piping connection.



Model			AM040KXMDGH/EU	AM050KXMDGH/EU	AM080MXMDGH/EU	
Power Supply		Φ, #, V, Hz	1Φ, 2, 220-240 V, 50 Hz	1Φ, 2, 220-240 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz	
Performance	hp		4	5	8	
	Capacity	Cooling	kW	12.1	14.0	22.4
		Heating	kW	12.1	14.0	22.4
	Maximum number of connectable indoor units		ea	6.0	8.0	13.0
	Total capacity of the connected indoor units	Min.	kW	5.6	7.0	11.2
Max.		kW	15.7	18.2	29.1	
Power	Power Input	Cooling	kW	3.60	4.00	6.90
		Heating	kW	2.90	3.40	5.80
	Current Input	Cooling	A	17.50	19.50	11.70
		Heating	A	14.00	16.50	9.50
	Current	Minimum SSC value	MVA	-	-	3.4
		MCA	A	24.0	27.0	18.4
MFA		A	32	40	25	
Energy Efficiency¹	EER (Nominal Cooling)	W/W	3.36	3.50	3.25	
	COP (Nominal Heating)	W/W	4.17	4.12	3.86	
	SEER	W/W	7.25	6.71	7.46	
Compressor	Type	-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary	
	Output	kW × n	4.12 x 1	4.12 x 1	4.92 x 1	
	Oil	Type	-	PVE	PVE	PVE
	Initial Charge	cc	1,700	1,700	1,700	
Fan	Type & Discharge direction	-	Propeller	Propeller	Propeller	
		-	Horizontal	Horizontal	Horizontal	
	Number of Fans	ea	1	1	2	
	Airflow Rate	m ³ /min		64	70	135
		l/s		1067	1167	2250
External Static Pressure	Max.	mmAq	3.00	3.00	3.00	
		Pa	29.40	29.40	29.40	
Fan Motor	Model	-	BLDC Motor	BLDC Motor	BLDC Motor	
	Output x n	W	125 x 1	139 x 1	139 x 2	
Piping Connections	Liquid Pipe	ø, mm	9.52	9.52	9.52	
		ø, inch	3/8	3/8	3/8	
	Gas Pipe	ø, mm	15.88	15.88	19.05	
		ø, inch	5/8	5/8	3/4	
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	50 (65)	50 (65)	100 (130)
	Piping length (1st Branch - IDU) ³	Max.	m	40	40	40
	Total piping length (System)	Max.	m	150	150	300
	Level Difference (Outdoor in highest position)	Max.	m	30	30	30
	Level Difference (Indoor in highest position)	Max.	m	25	25	30
Level Difference (IDU-IDU) ³	Max.	m	15	15	30	
Wiring Connections	Communication	Min.	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 / tCO ₂ e	2.00/4.18	2.50/5.22	3.70/7.73	
Sound	Sound Pressure ²	Cooling	dB(A)	52	55	59
		Heating	dB(A)	54	57	59
	Sound Power	dB(A)	73	75	77	
External Dimensions	Net Weight	kg	79.0	83.5	115.0	
	Net Dimensions (W x H x D)	mm	940 x 998 x 330	940 x 998 x 330	940 x 1,420 x 330	
Operating Temperature Range	Cooling	°C	-5.0-48.0	-5.0-48.0	-5.0-48.0	
	Heating	°C	-20.0-24.0	-20.0-24.0	-20.0-24.0	

	AM080FXMDGH/EU	AM100KXMDGH/EU	AM120KXMDGH/EU	AM140KXMDGH/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
	8	10	12	14
	22.4	28.0	33.5	40.0
	25.0	31.5	37.5	45.0
	13.0	18.0	21.0	26.0
	11.2	14.0	16.8	20.0
	29.1	36.4	43.6	52.0
	5.72	7.29	8.77	10.59
	4.88	6.74	7.81	9.88
	9.66	11.51	13.74	16.48
	8.24	10.58	12.23	15.55
	3.4	4.6	5.1	5.9
	18.0	21.5	23.5	32.0
	25	30	30	40
	3.92	3.84	3.82	3.78
	5.12	4.67	4.79	4.55
	9.22	7.09	6.94	6.83
	Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
	4.96 x 1	5.18 x 1	6.39 x 1	6.76 x 1
	PVE	PVE	PVE	PVE
	2,800	2,300	2,300	2,300
	Propeller	Propeller	Propeller	Propeller
	Horizontal	Horizontal	Horizontal	Horizontal
	2	2	2	2
	135	165	166	180
	2250	2750	2766.67	3000
	3.00	3.00	3.00	3.00
	29.40	29.40	29.40	29.40
	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
	139 x 2	244 x 2	244 x 2	244 x 2
	9.52	9.52	12.7	12.7
	3/8	3/8	1/2	1/2
	19.05	22.22	28.58	28.58
	3/4	7/8	11/8	11/8
	100 (130)	160 (185)	160 (185)	160 (185)
	40	40	40	40
	300	300	300	300
	30	50	50	50
	30	40	40	40
	30	50	50	50
	0.75	0.75	0.75	0.75
	F1, F2	F1, F2	F1, F2	F1, F2
	R410A (Fluorinated greenhouse gas, GWP=2,088)			
	3.70/7.73	3.70/7.73	4.30/8.98	4.80/10.02
	56	58	59	62
	58	60	61	64
	74	74	76	79
	135.0	145.0	155.0	162.0
	940 x 1,420 x 330	940 x 1,630 x 460	940 x 1,630 x 460	940 x 1,630 x 460
	-5.0-48.0	-5.0-52.0	-5.0-52.0	-5.0-52.0
	-20.0-24.0	-25.0-24.0	-25.0-24.0	-25.0-24.0

¹Performances 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

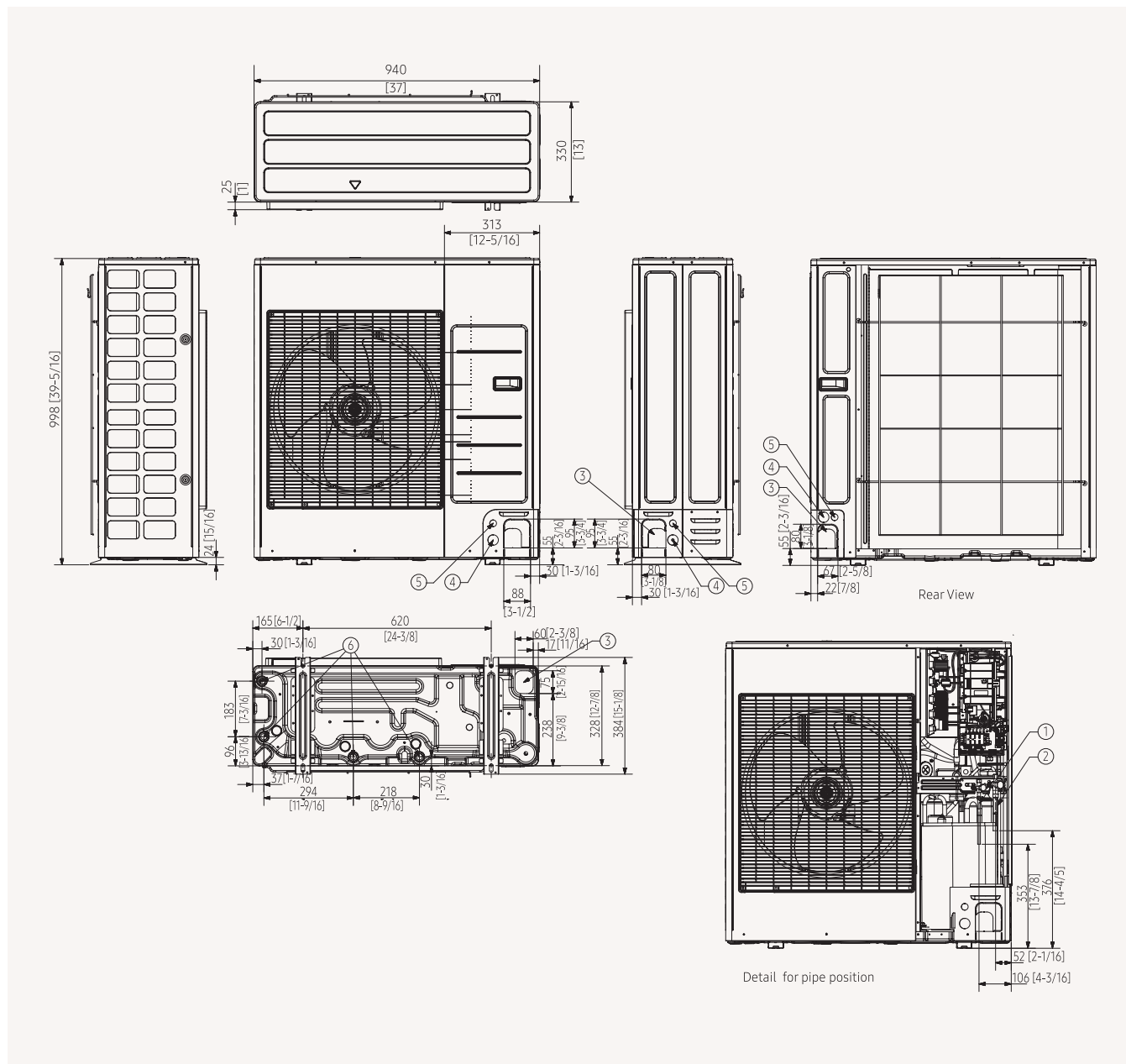
²Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

³ODU: Outdoor Unit, IDU: Indoor Unit

Dimensional drawings

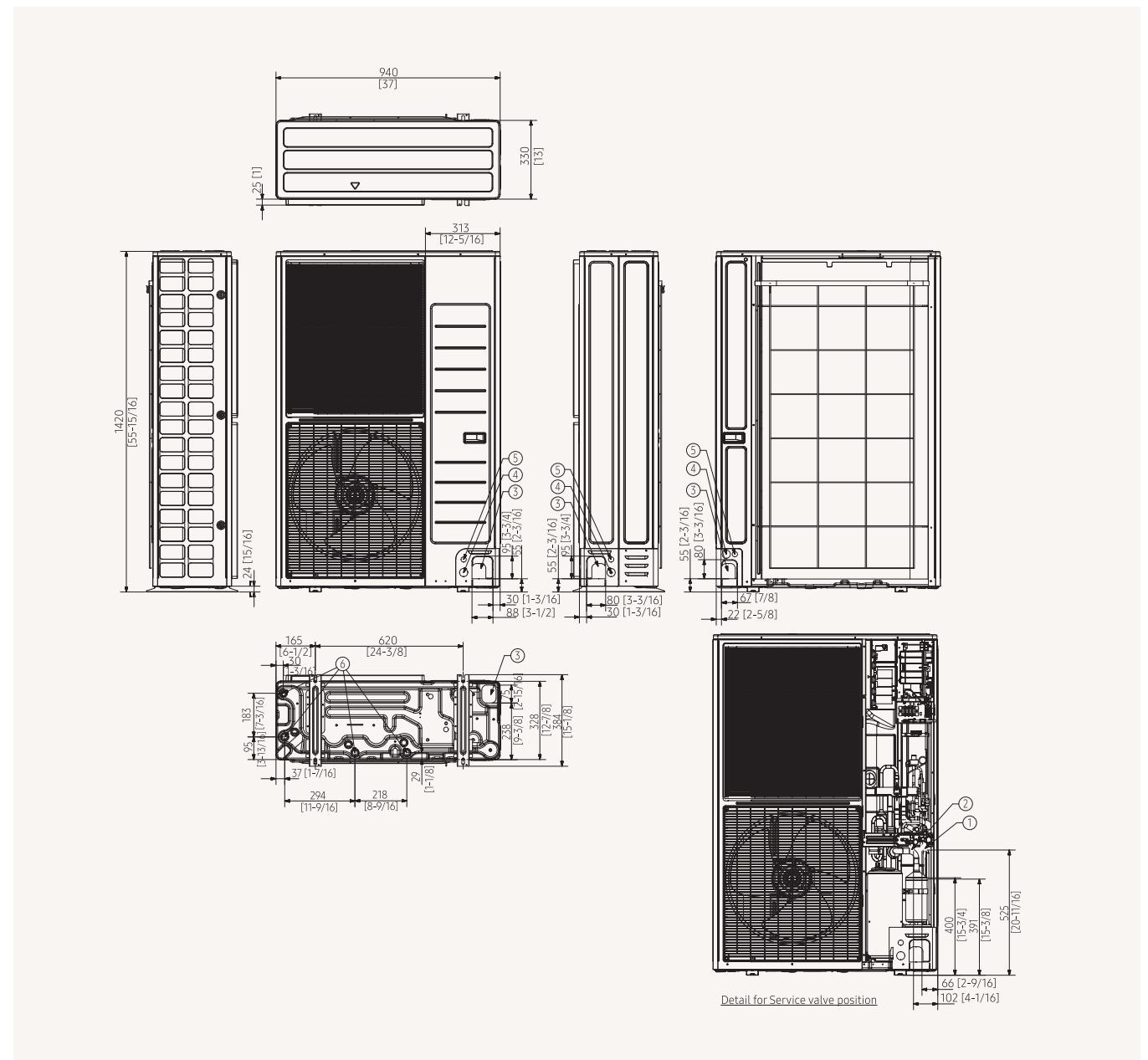
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AM040KXMDEH/EU, AM050KXMDEH/EU



NO	Name	Description
4/5 hp		
1	Refrigerant liquid pipe	ø9.52 (ø3/8)
2	Refrigerant gas pipe	ø15.88 (ø5/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect with the provided drain plug.

AM080*XMDBGH/EU

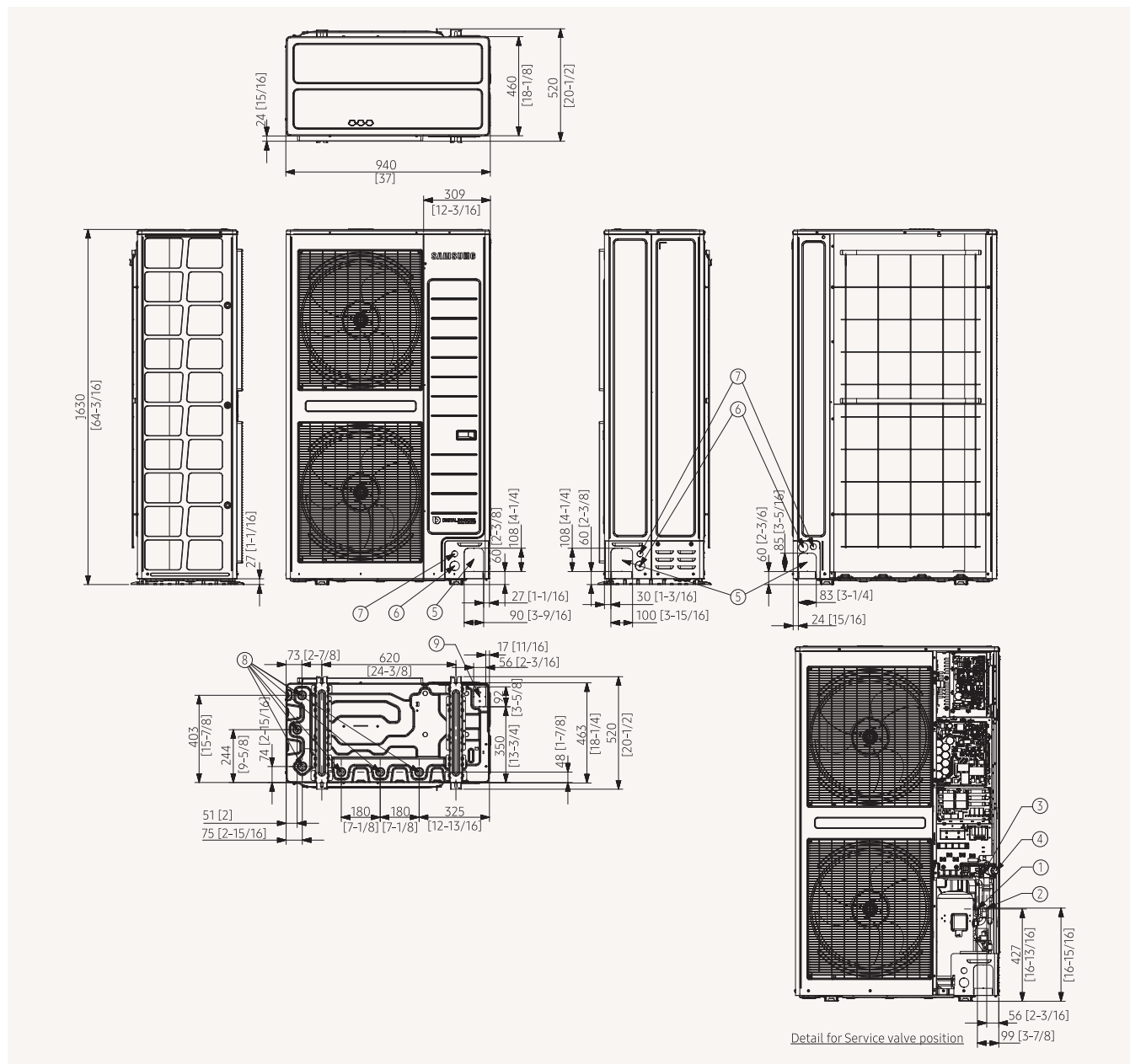


NO	Name	Description
8 hp		
1	Refrigerant gas pipe	ø19.05 (ø3/4)
2	Refrigerant liquid pipe	ø9.52 (ø3/8)
3	Knock-out hole for pipe intake	Front/Side/Rear/Bottom
4	Power wiring conduits	Front/Side/Rear, ø34.00 (ø1 3/8)
5	Communication wiring conduits	Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes	Connect with the provided drain plug.

Dimensional drawings

DVM S Eco Heat Pump

AM100KXMDGH/EU, AM120KXMDGH/EU, AM140KXMDGH/EU



NO	Name	Description	
		10 hp	12/14 hp
1	Refrigerant liquid pipe	ø9.52 (ø3/8)	ø12.70 (ø1/2)
2	Refrigerant gas pipe	ø22.28 (ø5/8)	ø28.58 (ø3/4)
3	Service valve (gas)		
4	Service valve (liquid)		
5	Knock-out hole for pipe intake		Front/Side/Rear
6	Power wiring conduits		Front/Side/Rear, ø44 (ø1 3/4)
7	Communication wiring conduits		Front/Side/Rear, ø28 (ø1 1/8)
8	Drain holes		Connect with the provided drain plug.
9	Knock-out hole for pipe intake		Bottom

