

Specifications

DVM S2 High EER Heat Recovery (3-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™



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



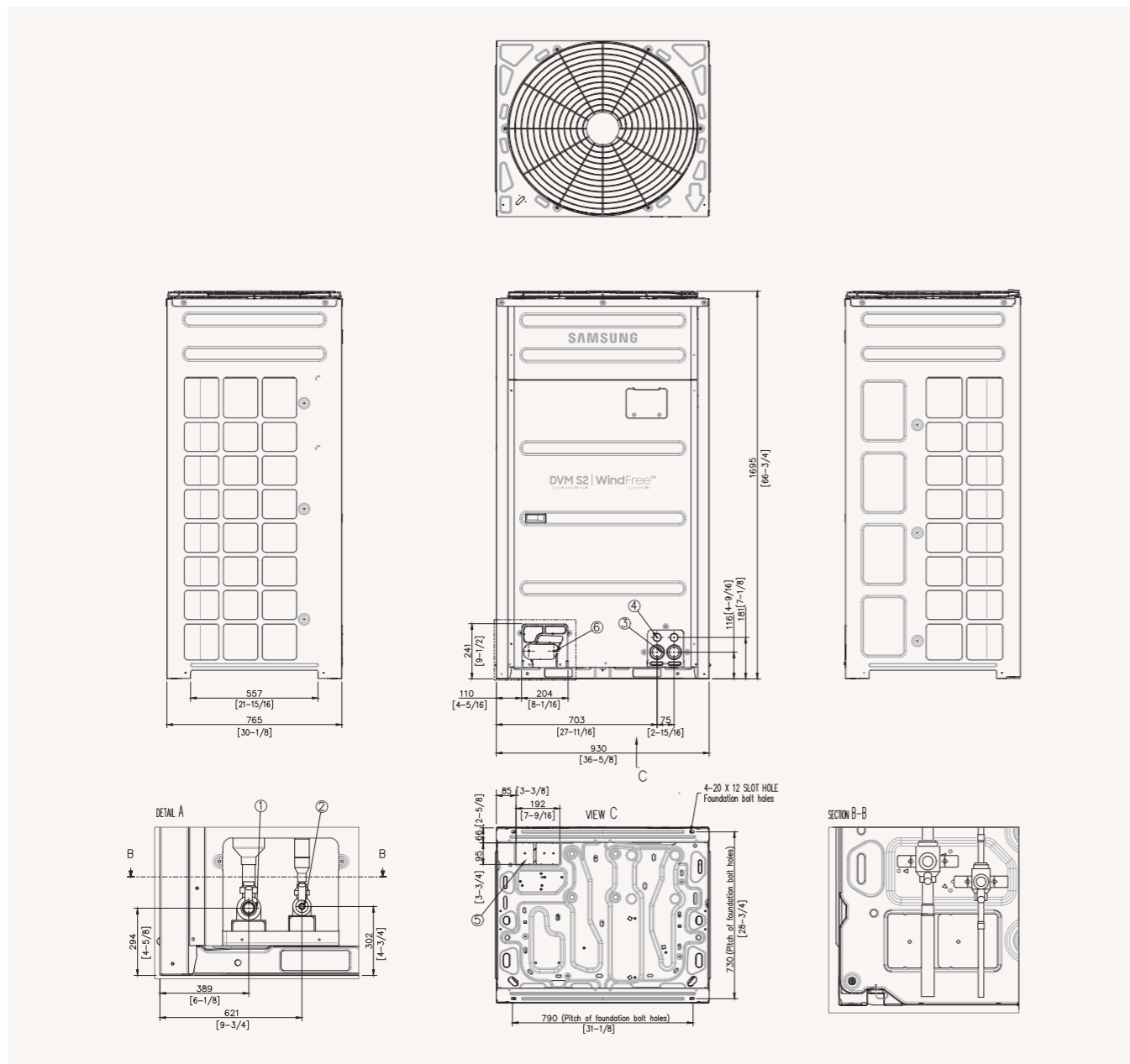
Model			AM080AXVGG/ER	AM100AXVGG/ER	AM120AXVGG/ER	
Power Supply	Φ, #, V, Hz		3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz	
Mode			HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	
Performance	hp	hp	8	10	12	
	Capacity	Cooling	kW	22.4	28.0	33.6
		Heating	kW	22.4	28.0	33.6
	Maximum number 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	21.1	25.0
		MFA	A	25	32	32
Energy Efficiency ¹	SEER	W/W	7.2	6.9	6.9	
	SCOP	W/W	4.5	4.4	4.56	
	ηs.c	%	285	273	273	
	ηs.h	%	177	173	179.4	
	Compressor	Output		4.6 x 1	6.67 x 1	6.67 x 1
Oil		Type		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	m³/min	164	181	196	
		l/s	2,738	3,019	3,260	
	External Static Pressure	Max.	mmAq	11	11	11
Fan Motor	Type		BLDC Motor	BLDC Motor	BLDC Motor	
	Output	W x n	630 x 1	630 x 1	630 x 1	
Piping Connections	Liquid Pipe	Φ, mm	9.52	9.52	12.70	
		Φ, inch	3/8	3/8	1/2	
	Gas Pipe	Φ, mm	19.05	22.22	28.58	
		Φ, inch	3/4	7/8	1 1/8	
	High Pressure Gas Pipe (HR Only)	Φ, mm	15.88	19.05	19.05	
		Φ, inch	5/8	3/4	3/4	
	Piping length (ODU-IDU) ³	Max. (Equiv.)	m	200 [220]	200 [220]	200 [220]
	Piping length (1st Branch - IDU) ³	Max.	m	90	90	90
	Total piping length (System)	Max.	m	1,000	1,000	1,000
	Level difference (ODU in highest position) ³	Max.	m	110	110	110
Level difference (IDU in highest position) ³	Max.	m	110	110	110	
Level Difference (IDU-IDU) ³	Max.	m	-	-	-	
Wiring Connections	Transmission Cable	mm²	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	
Sound	Sound Pressure ²	Cooling	tCO ₂ e	14.62	14.62	
		Heating	dB(A)	53	56	61
	Sound Power	dB(A)	58	60	63	
External Dimensions	Net Weight	kg	199	211	211	
	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	°C	-25-24	-25-24	-25-24	

AM140AXVGG/ER	AM160AXVGG/ER	AM180AXVGG/ER	AM200AXVGG/ER	AM220AXVGG/ER	AM240AXVGG/ER	AM260AXVGG/ER
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, 50/60 Hz	3Φ, 4, 380-415 V, 50/60 Hz
HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
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	4.3	4.8	4.5	4.3	3.9	3.9
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	4,866	5,209	5,209	5,698	6,089	6,089
11	11	11	11	11	8	8
110	110	110	110	110	80	80
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
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
22.22	22.22	22.22	28.58	28.58	28.58	28.58
7/8	7/8	7/8	1-1/8	1-1/8	1-1/8	1-1/8
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
-	-	-	-	-	-	-
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
237	268	274	274	309	332	332
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

Dimensional drawings

DVM S2 High EER Heat Recovery (3-Pipe)

AM080/100/120AXVGR/EU



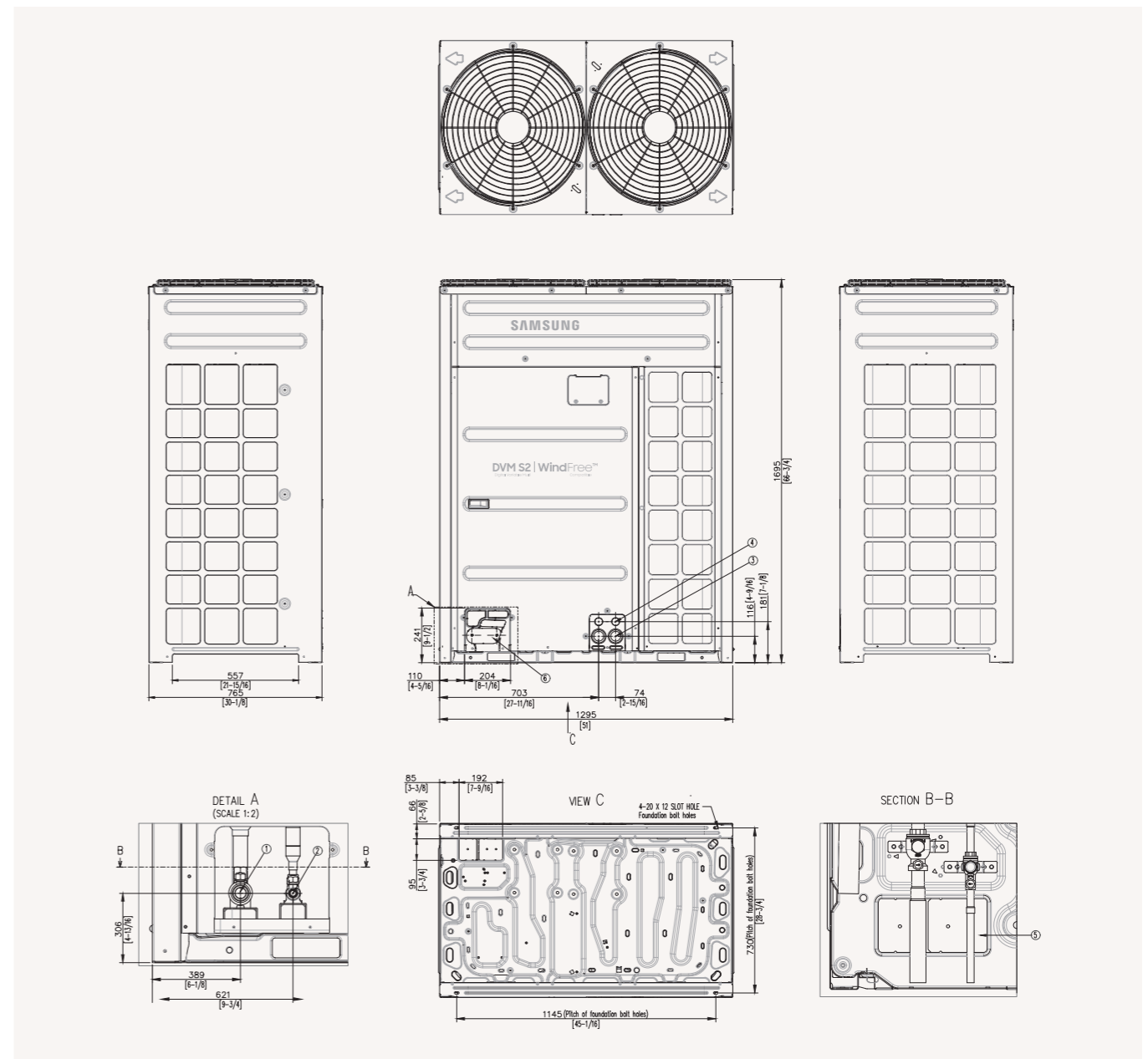
NO	Name	Description
1	Low Pressure Gas Ref.pipe	See NOTE 4.
2	High Pressure Ref.pipe	See NOTE 4.
3	Liquid Ref.pipe	See NOTE 4.
4	Power wiring conduit	Ø44
5	Communication wiring conduit	Ø34
6	Knock-out Hole for Ref.Piping (bottom)	
7	Knock-out Hole for Ref.Piping (front)	

Note:

1. Detail A and SECTION B-B indicate the dimension after fixing the attached piping.
2. Item 3-7: Knock-out hole
3. View C indicate the dimension of knock-out hole (bottom)
4. Pipe [Ø, mm(inch)]: Brazing connection

HP	Liquid pipe	Low Pressure Gas pipe	High Pressure Gas pipe
8	9.52(3/8)	19.05(3/4)	15.88(5/8)
10	9.52(3/8)	22.22(7/8)	19.05(3/4)
12	12.70(1/2)	28.58(1-1/8)	19.05(3/4)
14	12.70(1/2)	28.58(1-1/8)	22.22(7/8)
16	12.70(1/2)	28.58(1-1/8)	22.22(7/8)
18	15.88(5/8)	28.58(1-1/8)	22.22(7/8)
20	15.88(5/8)	28.58(1-1/8)	28.58(1-1/8)
22	15.88(5/8)	28.58(1-1/8)	28.58(1-1/8)
24	15.88(5/8)	34.92(1-3/8)	28.58(1-1/8)
26	19.05(3/4)	34.92(1-3/8)	28.58(1-1/8)

AM140/160/180/200/240/260AXVGR/EU



NO	Name	Description
1	Low Pressure Gas Ref.pipe	See NOTE 4.
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5	Communication wiring conduit	
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Note:

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