

VRF





Selection guide



Model	Heat Pump				
	DVM S Eco AM***RMSDCH/EU	DVM S Eco AM***RMSDCH/EU	DVM S Eco AM***RMSDCH/EU	DVM S Eco AM***RMSDCH/EU	DVM S Eco AM***RMSDCH/EU
Type	Heat Pump	Heat Pump	Heat Pump	Heat Pump	Heat Pump
Capacity range	4-8 hp	6-14 hp	10-40 hp	8-80 hp	8-90 hp
Connectability	Standard Cassette	Mini-Flex™ Cassette	360 Cassette	LSP Duct	MSP Duct
Features	Refrigerant check mode	Simultaneous cooling and heating	7Segment display	Four-way direction piping connection	Flash speed reduction
Smart Protection Technology	Aspiration Sense Wire	Refrigerant check mode	Resonance Avoidance Technology		

Model	Heat Recovery		
	DVM S Eco AM***RMSDCH/EU	DVM S Eco AM***RMSDCH/EU	DVM S Eco AM***RMSDCH/EU
Type	Heat Recovery	Heat Recovery	Heat Recovery
Capacity range	4-8 hp	8-80 hp	8-90 hp
Connectability	Standard Cassette	Mini-Flex™ Cassette	360 Cassette
Features	Refrigerant check mode	Simultaneous cooling and heating	7Segment display
Smart Protection Technology	Aspiration Sense Wire	Refrigerant check mode	Resonance Avoidance Technology

* Can be connected as a 2-pipe system.

Selection guide



Model	Wind-Free™ 4-Way Cassette	Wind-Free™ 4-Way Cassette	360 Cassette
Airflow	Wind-Free™ Coiling 360 Degree Air Supply	•	•
Air Purification	SPI Ionizer Air Filter	Optional	Optional
Functions	Compatible with SmartThings Compatible with Wi-Fi X2 Humidity Sensor MDS Motion Detect Sensor Automatic ESP Setting Quiet Mode	• • • •	• • • •
Controls	Wireless remote controller included		
Others	EVF Included Built-in Drain Pump	• •	• •



Model	Emson	Flow/Ceiling	Big Ceiling	Outdoor Fan-Downing	Package Fan-Downing
Airflow	Wind-Free™ Coiling 360 Degree Air Supply				
Air Purification	SPI Ionizer Air Filter	• •			
Functions	Compatible with SmartThings Compatible with Wi-Fi X2 Humidity Sensor MDS Motion Detect Sensor Automatic ESP Setting Quiet Mode	• • • •	• • • •	• • • •	• • • •
Controls	Wireless remote controller included	•			
Others	EVF Included Built-in Drain Pump	• •	• •	• •	• •



Model	DuctS	LSP Duct	MSP Duct	HSP Duct	Big Duct
Airflow					
Air Purification	Optional				
Functions	• • •	• • •	• • •	• • •	• • •
Controls					
Others	•	•	•	•	•
		Model-specific	Model-specific	Model-specific	Optional



Model	Hydro Duct EE	Hydro Link BT
Airflow		
Air Purification		
Functions	• •	• •
Controls		
Others	•	•



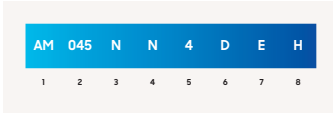
Model	Breeze Wi-Fi-Max dnet	ARI DDF Wi-Fi-Max dnet	Max Wi-Fi-Max dnet
Airflow			
Air Purification			
Functions	• •	• •	• •
Controls			
Others		•	•
		Model-specific	Model-specific

* Subject to the exact model.



Nomenclature

Indoor units



1	Classification	AM	VRF
		AN	Ventilation (ERV)
2	Capacity	x1/10 hp DVM (3 digits)	
		F	2013
3	Version	H	2014
		J	2015
		K	2016
		M	2017
		N	2018
		R	2019
		T	2020
		N	Indoor Unit (NASA)
4	Product Type	S	ERV
		'1'	Wind-Free™ 1-Way Cassette
5	Product Notation	'2'	2-Way Cassette
		'4'	360 Cassette & Wind-Free™ 4-Way Cassette
		N	Small chassis Wind-Free™ 4-Way Cassette
		L	Low Static Pressure Duct (Slim Duct)
		M	Medium Static Pressure Duct
		H	High Static Pressure Duct
		E	Outdoor Air Pro cessing Duct
		C	Ceiling
		J	Console
		F	Floor-Standing
		P	Packaged Floor-Standing
		T	Boracay Wall-Mounted without EEV
		Q	Boracay Wall-Mounted (EEV)
		V	AR5000 Wall-Mounted (EEV)
6	Feature	B	Hydro Unit
		K	ERV (Plus)
		W	DVM S Water
		F	Flagship
		P	Premium
7	Voltage Rating	D	Deluxe
		S	Standard
		E	10, 220-240 V, 50 Hz
8	Mode	K	10, 220-240 V, 50/60 Hz
		G	30, 220-240 V, 50 Hz
		H	Heat Pump (R410A)
		B	Heat Pump (R134A)
		N	ERV

Outdoor units



1	Classification	AM	VRF
2	Capacity	x1/10 hp DVM (3 digits)	
		F	2013
3	Version	H	2014
		J	2015
		K	2016
		M	2017
		N	2018
		R	2019
		T	2020
		X	DVM S
4	Product Type	V	DVM S Essential/Standard/High EER
		W	DVM S Water
5	Product Notation	M	DVM S Eco
		A	Standard + General Temperature + Module
6	Feature	H	High EER + Low Temperature + Module
		G	High EER + General Temperature + Module
		D	Standard + General Temperature + Non-Module
		E	10, 220-240 V, 50 Hz
7	Voltage Rating	G	30, 380-415 V, 50 Hz
		N	30, 380-415 V, 50/60 Hz
8	Mode	H	Heat Pump
		R	Heat Recovery

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 fans).
- 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 EUP (Ecodesign) compliant.
- Four-way direction piping connection.



Model Name	AM040KXMDCH, EU	AM010KXMDCH, EU	AM080KXMDCH, EU			
Power Supply	Ø, V, Hz	10, 2, 220-240 V, 50 Hz	10, 2, 220-240 V, 50 Hz	10, 2, 220-240 V, 50 Hz		
Performance	hp	4	5	8		
	Capacity	Cooling	12.1	14.0	22.4	
		Heating	12.1	14.0	22.4	
	Maximum number of connectable indoor units	Max. kW	5.6	7.0	11.2	
Max. kW		15.7	18.2	29.1		
Power	Power Input	Cooling	3.60	4.00	6.90	
		Heating	2.90	3.40	5.80	
	Current Input	Cooling	17.50	19.50	11.70	
		Heating	14.00	16.50	9.50	
	Current	Minimum SSB value	MVA	-	-	3.4
		MCA	A	24.0	27.0	18.4
		MFA	A	32	40	25
		MFA	W/W	3.56	3.50	3.25
Energy Efficiency	SEER	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 x n	4.12	4.12	4.92 x 1	
	Oil	Type	-	PVE	PVE	PVE
	Initial Charge	cc	1,700	1,700	1,700	
Fan	Type & Discharge Location	-	Propeller	Propeller	Propeller	
	Number of Fans	-	1	1	2	
	Airflow Rate	m³/min	44	70	135	
	External Static Pressure	Max. mmAq	3.00	3.00	3.00	
	Pa	29.40	29.40	29.40		
	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 (OD-IDU)	Max. (Exch.) m	50 (65)	50 (65)	100 (130)	
	Piping length (Ø Branch-IDU)	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)	Max. m	15	30	50	
Wiring Connections	Communication	Minimum mm²	0.75	0.75	0.75	
	Remark	-	F1, F2	F1, F2	F1, F2	
Refrigerant	Type	-	R410A	R410A	R410A	
	Factory Charge	kg / TCO ₂ e	2.00/4.18	2.50/5.22	3.70/7.73	
Sound	Sound Pressure	Cooling	(dB) A	52	55	59
		Heating	(dB) A	54	57	59
	Sound Power	(dB) A	73	75	77	
External Dimensions	Net Weight	kg	790	835	115.0	
	Net Dimensions (W x H x D)	mm	940 x 998 x 330	940 x 998 x 330	940 x 1,400 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	

Model Name	AM080FXMDCH, EU	AM100KXMDCH, EU	AM110KXMDCH, EU	AM140KXMDCH, EU			
Power Supply	Ø, V, Hz	10, 2, 220-240 V, 50 Hz	10, 2, 220-240 V, 50 Hz	10, 2, 220-240 V, 50 Hz			
Performance	hp	8	10	12	14		
	Capacity	Cooling	22.4	28.0	33.5	40.0	
		Heating	25.0	31.5	37.5	45.0	
	Maximum number of connectable indoor units	Max. kW	13.0	16.0	21.0	26.0	
Max. kW		29.1	36.4	41.4	52.0		
Power	Power Input	Cooling	5.72	7.29	8.77	10.59	
		Heating	4.88	6.74	7.81	9.88	
	Current Input	Cooling	9.66	11.51	13.74	16.48	
		Heating	8.24	10.58	12.23	15.55	
	Current	Minimum SSB value	MVA	3.4	4.6	5.1	5.9
		MCA	A	18.0	21.5	23.5	32.0
		MFA	A	25	30	30	40
		MFA	W/W	3.92	3.94	3.62	3.78
Energy Efficiency	SEER	W/W	5.72	4.67	4.79	4.55	
	SEER	W/W	9.22	7.09	6.94	6.83	
Compressor	Type	-	Inverter Scroll	Inverter Scroll	Inverter Scroll		
	Output	kW x n	4.96 x 1	5.18 x 1	6.39 x 1	6.76 x 1	
	Oil	Type	PVE	PVE	PVE	PVE	
	Initial Charge	cc	2,800	2,300	2,300	2,300	
Fan	Type & Discharge Location	-	Propeller	Propeller	Propeller		
	Number of Fans	-	2	2	2		
	Airflow Rate	m³/min	135	165	164	180	
	External Static Pressure	Max. mmAq	3.00	3.00	3.00	3.00	
	Pa	29.40	29.40	29.40	29.40		
	Motor	Model	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	
	Output x n	W	139 x 2	244 x 2	244 x 2	244 x 2	
Piping Connections	Liquid Pipe	Ø, mm	9.52	9.52	12.7		
		Ø, inch	3/8	3/8	1/2		
	Gas Pipe	Ø, mm	19.05	22.22	28.18	28.58	
		Ø, inch	3/4	7/8	1 1/8	1 1/8	
	Piping length (OD-IDU)	Max. (Exch.) m	100 (130)	160 (185)	160 (185)	160 (185)	
	Piping length (Ø Branch-IDU)	Max. m	40	40	40	40	
	Total piping length (System)	Max. m	300	300	300	300	
	Level Difference (Outdoor in highest position)	Max. m	30	50	50	50	
	Level Difference (Indoor in highest position)	Max. m	30	40	40	40	
	Level Difference (IDU-IDU)	Max. m	30	50	50	50	
Wiring Connections	Communication	Minimum mm²	0.75	0.75	0.75		
	Remark	-	F1, F2	F1, F2	F1, F2		
Refrigerant	Type	-	R410A	R410A	R410A		
	Factory Charge	kg / TCO ₂ e	3.70/7.73	3.70/7.73	4.30/8.98	4.80/10.02	
Sound	Sound Pressure	Cooling	(dB) A	56	58	59	62
		Heating	(dB) A	58	60	61	64
	Sound Power	(dB) A	74	76	76	79	
External Dimensions	Net Weight	kg	135.0	145.0	155.0	162.0	
	Net Dimensions (W x H x D)	mm	940 x 1,400 x 330	940 x 1,600 x 460	940 x 1,600 x 460	940 x 1,600 x 460	
Operating Temperature Range	Cooling	°C	-5.0-48.0	-5.0-52.0	-5.0-52.0	-5.0-52.0	
	Heating	°C	-20.0-24.0	-25.0-24.0	-25.0-24.0	-25.0-24.0	

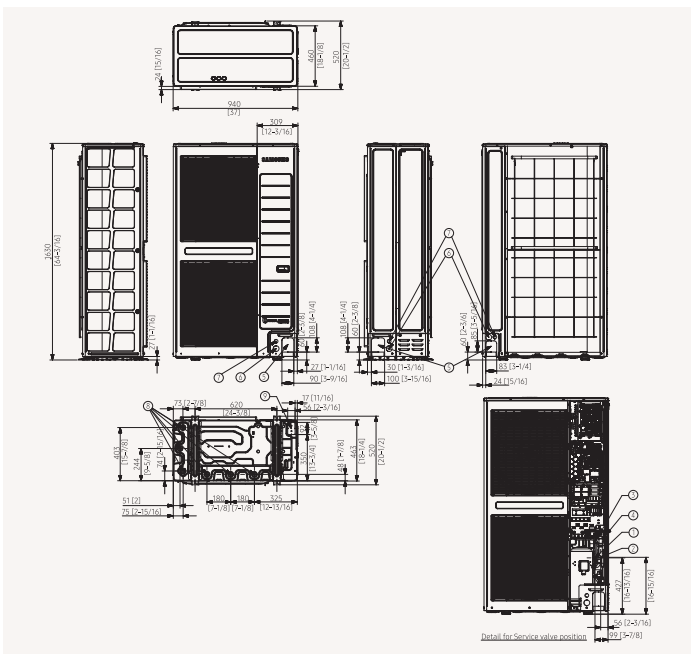
Performances are based on the following test conditions:
 - Cooling: Indoor temperature: 27 °C DB, 19 °C WB, Outdoor temperature: 35 °C DB, 24 °C WB
 - Heating: Indoor temperature: 20 °C DB, 15 °C WB, Outdoor temperature: 7 °C DB, 6 °C WB
 - Equivalent refrigerant piping: 7.5 m, Level differences: 0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

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.

Dimensional drawings

DVM S Eco Heat Pump

AMFDKXMDIGH/DU AMFDKXMDIGH/DU AMFDKXMDIGH/DU



NO	No. me	S 833/81 p4	
		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



Specifications

DVM S Essential Heat Pump (2-Pipe)

- Horizontal discharge and rear suction by means of one (4-5 hp) or two (8-14 hp) propeller BLDC inverter fans.
- Each module houses one Inverter Scroll compressor.
- Night Silent Mode available.
- Pump Down function (leak detection).
- "Intelligent defrost" (air resistant factor added) technology to minimize defrost operation.
- Eurovent certified and EUP (Ecodesign) compliant.
- Continuous operation in heating even during oil recovery cycle.



Model Name		AM100MXVCGH/ET	AM120HXVCGH/ET	AM140MXVCGH/ET	
Power Supply		Φ, V, Hz 30, 4, 380-415 V, 50 Hz			
Performance	hp	10	12	14	
	Capacity	Cooling Rate ¹	28.0	33.6	40.0
		Heating Rate ¹	28.0	33.6	40.0
	Maximum number of connectable indoor units	ea	18	21	26
Maximum capacity of the connectable indoor units		Wp, kW	14.0	16.8	20.0
Power	power input	Cooling Rate ¹	7.18	9.36	12.42
		Heating Rate ¹	6.67	8.20	9.90
	Current Input	Cooling Rate ¹	11.50	15.00	19.90
		Heating Rate ¹	10.70	13.20	15.90
	Current	Maximum SSK value	4.5	5.7	5.4
		NCA	21.1	25.0	25.0
	Energy efficiency	EER	3.90	3.59	3.22
		COP	Heating Rate ¹	4.20	4.04
	Compressor	Type	Inverter Scroll x1	Inverter Scroll x1	Inverter Scroll x1
		Output	W/h	6.39 x1	6.39 x1
Fan	Type	Propeller	Propeller	Propeller	
	Discharge direction	Vertical	Vertical	Vertical	
	Number of Fans	1	1	2	
	Airflow Rate	m ³ /min	170	220	255
External Static Pressure	Pa	2.833	3.647	4.250	
	Max.	8.00	8.00	8.00	
Motor	Type	BLDC Motor	BLDC Motor	BLDC Motor	
	Output	W/h	850 x1	850 x1	850 x2
Piping connections	Liquid pipe	φ, mm	9.52	12.70	12.70
		φ, inch	3/8	1/2	1/2
	Gas pipe	φ, mm	22.22	28.58	28.58
		φ, inch	7/8	1 1/8	1 1/8
	Piping length (OD in IDU)	Max. (L x V x H)	200 (200)	200 (200)	200 (200)
	Piping length (L in Branch-IDU)	Max.	90	90	90
	Maximum piping length (System)	Max.	1,000	1,000	1,000
	Level difference (OD in highest position)	Max.	110	110	110
Level difference (IDU in highest position)	Max.	110	110	110	
Wiring connections	Transmission cable	Wp, mm ²	0.75	0.75	0.75
	Remark		F1, F2	F1, F2	F1, F2
Refrigerant	Type	-	R410A	R410A	
	Factory Charging	kg	5.5	7.7	8.4
	CO ₂ e	1148	1537	1638	
Sound ²	Sound Pressure	Cooling	58	62	63
	Sound Power	Heating	60	64	67
External dimensions	Net Weight	kg	1970	2160	2360
	Net Dimension (W x H x D)	mm	880 x 1,695 x 765	880 x 1,695 x 765	1,295 x 1,695 x 765
Operating Temperature Range	Cooling	°C	-5~48	-5~48	-5~48
	Heating		-25~24	-25~24	-25~24

Model Name		AM160MXVCGH/ET	AM180MXVCGH/ET	
Power Supply		Φ, V, Hz 30, 4, 380-415 V, 50 Hz		
Performance	hp	16	18	
	Capacity	Cooling Rate ¹	45.0	50.4
		Heating Rate ¹	45.0	50.4
	Maximum number of connectable indoor units	ea	29	32
Maximum capacity of the connectable indoor units		Wp, kW	22.5	25.2
Power	power input	Cooling Rate ¹	13.80	16.00
		Heating Rate ¹	11.28	13.16
	Current Input	Cooling Rate ¹	22.10	25.70
		Heating Rate ¹	18.10	21.10
	Current	Maximum SSK value	3.2	3.8
		NCA	32.0	39.2
	Energy efficiency	EER	3.26	3.15
		COP	Heating Rate ¹	3.99
	Compressor	Type	Inverter Scroll x1	Inverter Scroll x1
		Output	W/h	781 x1
Fan	Type	Propeller	Propeller	
	Discharge direction	Vertical	Vertical	
	Number of Fans	2	2	
	Airflow Rate	m ³ /min	255	290
External Static Pressure	Pa	4.250	4.833	
	Max.	8.00	8.00	
Motor	Type	BLDC Motor	BLDC Motor	
	Output	W/h	620 x2	620 x2
Piping connections	Liquid pipe	φ, mm	12.70	15.88
		φ, inch	1/2	5/8
	Gas pipe	φ, mm	28.58	28.58
		φ, inch	1 1/8	1 1/8
	Piping length (OD in IDU)	Max. (L x V x H)	200 (200)	200 (200)
	Piping length (L in Branch-IDU)	Max.	90	90
	Maximum piping length (System)	Max.	1,000	1,000
	Level difference (OD in highest position)	Max.	110	110
Level difference (IDU in highest position)	Max.	110	110	
Wiring connections	Transmission cable	Wp, mm ²	0.75	0.75
	Remark		F1, F2	F1, F2
Refrigerant	Type	-	R410A	R410A
	Factory Charging	kg	8.4	8.4
	CO ₂ e	1754	1754	
Sound ²	Sound Pressure	Cooling	63	64
	Sound Power	Heating	67	68
External dimensions	Net Weight	kg	2510	2510
	Net Dimension (W x H x D)	mm	1,295 x 1,695 x 765	1,295 x 1,695 x 765
Operating Temperature Range	Cooling	°C	-5~48	-5~48
	Heating		-25~24	-25~24

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 a acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

Specifications

DVM S Standard Heat Pump (2-Pipe)

- Vertical discharge and side-rear suction with by means of one (8-18 hp) or two (20-26 hp) propeller BLDC inverter fans.
- Each module houses one (8-18 hp) or two (20-26 hp) Inverter Scroll compressors with Flash Injection technology.
- Night Silent Mode available.

- Pump Down function (leak detection).
- "Intelligent defrost" (air resistant factor added) technology to minimise defrost operation.
- Eurovent certified and EIP (Ecodesign) compliant.
- Continuous operation in heating even during oil recovery cycle.



Model Name		AM080XVAGH/ET	AM100XVAGH/ET	AM120XVAGH/ET		
Power Supply		Φ, A, V, Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	
Performance	Capacity	h	8	10	12	
	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		
	Max. capacity of the indoor unit	kW	11.2	14.0	16.8	
	Max.	kW	291	36.4	43.7	
Power Input	Cooling	kW	5.0	6.9	8.2	
	Heating	kW	4.5	5.9	7.1	
	Circuit breaker	A	8.00	11.00	13.10	
Current	Cooling	A	23.0	31.0	37.0	
	Heating	A	20.0	27.0	32.0	
	MCA	A	18.0	21.0	25.0	
Energy Efficiency	EER	Cooling	W/W	4.48	4.09	4.12
	COP	Heating	W/W	4.94	4.74	4.71
	Compressor	Output	kW/h	4.39 x1	6.39 x1	6.39 x1
Fan	Oil	Type	PVE	PVE	PVE	
	Flash Charge	cc/h	1300	1300	1300	
	Type	-	Propeller	Propeller	Propeller	
Discharge (inlet)	Vertical	Vertical	Vertical	Vertical		
	Number of Fans	-	1	1	1	
	Airflow Rate	m ³ /min	170	220	220	
External Static Pressure	Pa	2,813.3	2,813.3	2,813.3		
	Max.	mmA1	8.00	8.00	8.00	
	Pa	78.50	78.50	78.50		
Fan Motor	Type	-	BLDC Motor	BLDC Motor		
	Output	W/h	830 x1	830 x1	830 x1	
	Capacity	mm	9.52	9.52	12.70	
Piping Connection	Gas Pipe	Ø, inch	5/8	5/8	1/2	
	Ø, mm	19.05	22.22	28.58		
	Ø, inch	3/4	7/8	1 1/8		
	Piping length (OD x ID)	Max. (ft x m)	200 (220)	200 (220)	200 (220)	
	Piping length (ID x ID)	Max.	90	90	90	
	Max. piping length (overseas)	Max.	1,000	1,000	1,000	
	Level difference (OD) in highest position	Max.	110	110	110	
	Level difference (ID) in highest position	Max.	110	110	110	
	Level difference (ID x ID)	Max.	50	50	50	
	Wiring Connection	Transmission Cable	mm ²	0.75	0.75	0.75
		Remark	-	FL12	FL12	FL12
		Type	-	R410A	R410A	R410A
Refrigerant	Recharge	kg	5.5	5.5	6.5	
	CO ₂ e	11.5	11.5	13.6		
	Sound Power	Sound Pressure	(dB(A))	57	58	62
Sound Power	Sound Power	(dB(A))	59	60	64	
	Sound Power	(dB(A))	77	79	81	
	Net Weight	kg	184.0	197.0	210.0	
External Dimensions	Net Dimensions (W x H x D)	mm	878 x 1,695 x 765	878 x 1,695 x 765	1,291 x 1,695 x 765	
	Cooling	°C	-5~48	-5~48	-5~48	
	Heating	°C	-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.

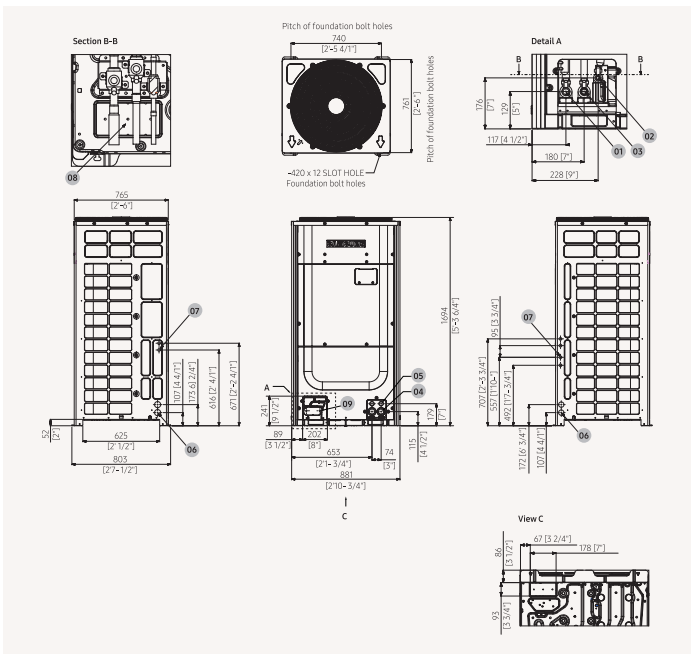


AM140XVAGH/ET	AM160XVAGH/ET	AM180XVAGH/ET	AM200XVAGH/ET	AM220XVAGH/ET	AM240XVAGH/ET	AM260XVAGH/ET
30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz
14	16	18	20	22	24	26
40.0	45.0	50.4	56.0	61.6	67.2	72.8
40.0	45.0	50.4	56.0	61.6	67.2	72.8
26	29	32	36	40	43	47
20.0	23.2	25.2	28.0	30.8	33.6	36.4
32.0	38.5	45.5	52.8	60.1	67.4	74.4
10.9	11.6	13.6	16.2	18.5	21.0	22.5
9.0	10.1	10.8	12.2	12.9	14.9	16.5
13.50	18.70	21.90	26.00	29.70	33.70	38.00
14.50	16.30	17.50	19.50	20.70	23.90	26.50
25.0	32.0	39.2	42.0	44.6	50.0	60.0
32.0	40.0	50.0	63.0	63.0	63.0	75.0
3.66	3.87	3.70	3.45	3.32	3.20	3.20
4.43	4.46	4.68	4.60	4.50	4.50	4.40
6.39 x1	7.81 x1	7.81 x1	5.18 x2	6.39 x2	6.39 x2	6.39 x2
1300	1400	1400	1300 x2	1300 x2	1300 x2	1300 x2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Vertical	Vertical	Vertical	Vertical	Vertical	Vertical	Vertical
2	2	2	2	2	2	2
205	255	290	290	340	340	340
4,250.0	4,250.0	4,813.3	4,813.3	4,813.3	5,166.7	5,166.7
8.00	8.00	8.00	8.00	8.00	8.00	8.00
78.50	78.50	78.50	78.50	78.50	78.50	78.50
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
620 x2	620 x2	620 x2	620 x2	620 x2	620 x2	620 x2
12.70	12.70	12.70	15.88	15.88	15.88	19.05
1/2	1/2	5/8	5/8	5/8	5/8	5/8
28.58	28.58	28.58	28.58	28.58	34.92	34.92
11/8	11/8	11/8	11/8	11/8	11/8	11/8
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
FL12	FL12	FL12	FL12	FL12	FL12	FL12
R410A	R410A	R410A	R410A	R410A	R410A	R410A
5.5	5.5	6.5	6.5	6.5	6.5	6.5
11.5	11.5	13.6	13.6	13.6	13.6	13.6
57	58	62	65	65	66	66
59	60	64	67	67	69	69
77	79	81	84	87	89	89
184.0	197.0	210.0	282.0	290.0	342.0	350.0
878 x 1,695 x 765	878 x 1,695 x 765	878 x 1,695 x 765	1,291 x 1,695 x 765	1,291 x 1,695 x 765	1,291 x 1,795 x 765	1,291 x 1,795 x 765
-5~48	-5~48	-5~48	-5~48	-5~48	-5~48	-5~48
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24

Dimensional drawings

DVM 5 Standard Heat Pump (2-Pipe)

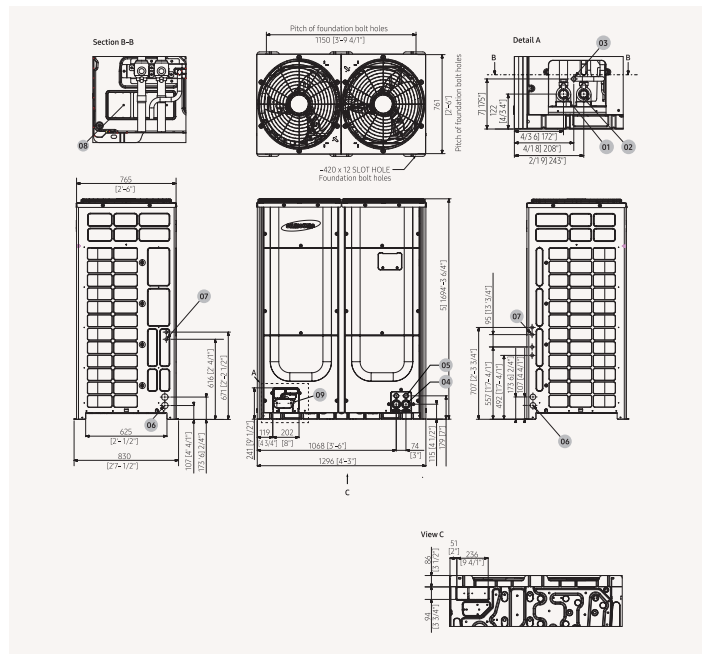
AH052/160/180/200/220/240



N.O	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	a44
4	Power wiring conduits	a34
5	Communication wiring conduits	a44
6	Power wiring conduits	a22
7	Communication wiring conduits	
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

1. Detail A and SECTION B-B indicate the dimensions after fixing the attached piping.
2. Item 4-9: Knock-out hole.
3. View C indicates the dimensions of the knock-out hole (bottom).
4. Pipe (a, mm (inch)): Brazing connection.

AH140/160/180/200/220/240



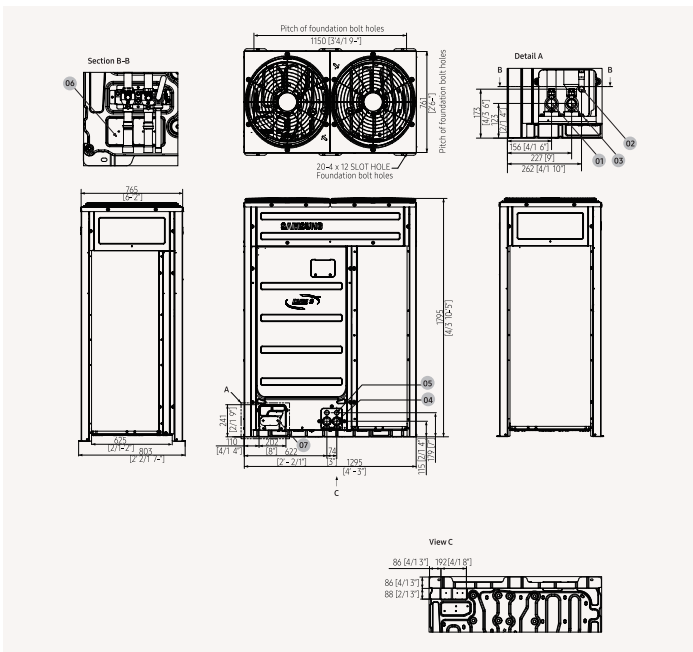
N.O	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	a44
4	Power wiring conduits	a34
5	Communication wiring conduits	a44
6	Power wiring conduits	a22
7	Communication wiring conduits	
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

1. Detail A and SECTION B-B indicate the dimensions after fixing the attached piping.
2. Item 4-9: Knock-out hole.
3. View C indicates the dimensions of the knock-out hole (bottom).
4. Pipe (a, mm (inch)): Brazing connection.

Dimensional drawings

DVM S Standard Heat Pump (2-Pipe)

AMC040/2000/0000



NO	Name	Description
1	Low Pressure Gas Ref. pipe	See note 4
2	High Pressure Gas Ref. pipe	See note 4
3	Liquid Ref. pipe	a44
4	Power wiring conduits	a34
5	Communication wiring conduits	a44
6	Power wiring conduits	a22
7	Communication wiring conduits	
8	Knock-out hole for Ref. piping (bottom)	
9	Knock-out hole for Ref. piping (front)	

1. Detail A and SECTION B-B indicate the dimensions after fixing the attached piping.
2. Item 4-9: Knock-out hole.
3. View C indicates the dimensions of the knock-out hole (bottom).
4. Pipe (a, mm (inch)): Brazing connection.



Specifications

DVM S High EER Heat Pump (2-Pipe)

- Vertical discharge and side-riser suction with by means of one (8-18 hp) or two (20-26 hp) propeller BLDC inverter fan(s).
- Each module houses one (8-18 hp) or two (20-26 hp) Inverter Scroll compressors with Flash Injection technology.
- Night Silent Mode available.

- Pump Down function (leak detection).
- "Intelligent defrost" (air resistance factor added) technology to minimize defrost operation.
- Eurovent certified and EIP (Ecodesign) compliant.
- Continuous operation in heating even during oil recovery cycle.



Module Name		AM08D1XV164/ET	AM10D1XV164/ET	AM12D1XV164/ET
Power Supply		Φ, 6, V, Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz
Performance	Capacity	hp	8	10
		hp	10	12
Capacity	Cooling	kW	22.4	28.0
	Heating	kW	22.4	28.0
Max. in. number of connectable indoor units	Cooling	ea	14	18
	Heating	ea	14	18
Total capacity of the connectable indoor units	Cooling	kW	112	140
	Heating	kW	112	140
Power	Power Input	kW	4.59	6.22
		kW	4.59	6.22
Current Input	Cooling	A	20.8	27.2
	Heating	A	20.8	27.2
Current	Maximum SSK value	MA	3.1	4.5
	MC4	A	18.0	21.0
Energy Efficiency	EER	W/W	4.88	4.50
	COP	W/W	5.49	5.35
Compressor	Output	kW x n	5.18 x 1	6.39 x 1
	Oil	Type	PVE	PVE
Fan	Type	cc x n	1,300 x 1	1,300 x 1
	Discharge (inlet)	Propeller	Propeller	Propeller
Airflow Rate	Number of Fans	Top	Top	Top
		Top	Top	Top
External Static Pressure	Max.	mmAt	8.00	8.00
		mmAt	8.00	8.00
Fan Motor	Type	W x n	850 x 1	850 x 1
	Output	BLDC Motor	BLDC Motor	BLDC Motor
Piping Connection	Liquid Pipe	Φ, mm	9.52	12.70
	Gas Pipe	Φ, inch	3/8	1/2
Piping Length (OD in ID in)	Max. (Ex + In)	m	200 (200)	200 (200)
		m	200 (200)	200 (200)
Wiring Connection	Remark	mm ²	0.75	0.75
		mm ²	0.75	0.75
Refrigerant	Type	kg	6.5	6.5
	Recovery Charging	kg	6.5	6.5
Sound	Sound Pressure	(dB(A))	57	62
	Sound Power	(dB(A))	77	81
External Dimensions	Net Weight	kg	195.5	195.5
	Net Dimension (W x H x D)	mm	880 x 1,695 x 765	880 x 1,695 x 765
Operating Temperature Range	Cooling	°C	-5~48	-5~48
	Heating	°C	-25~24	-25~24

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

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.

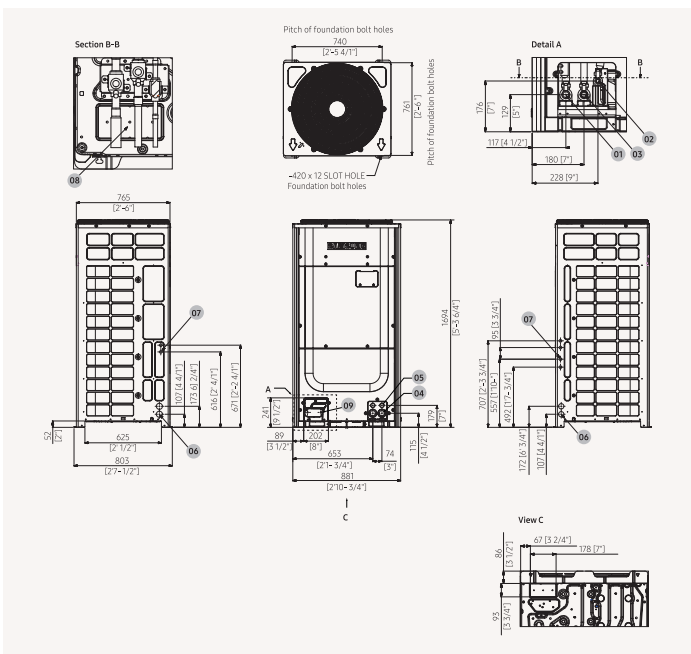


AM14D1XV164/ET	AM16D1XV164/ET	AM18D1XV164/ET	AM20D1XV164/ET	AM22D1XV164/ET	AM24D1XV164/ET	AM26D1XV164/ET
30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz
14	16	18	20	22	24	26
40.0	45.0	50.4	56.0	61.6	67.2	72.8
40.0	45.0	50.4	56.0	61.6	67.2	72.8
14	18	22	26	30	34	38
14	18	22	26	30	34	38
20.0	22.5	25.2	28.0	30.8	33.6	36.4
12.0	13.5	15.0	16.5	18.0	19.5	21.0
8.89	10.92	12.32	13.83	15.33	16.84	18.34
8.55	8.95	10.02	11.22	12.41	13.61	14.81
14.50	17.50	19.80	22.20	24.60	27.00	29.40
13.70	14.60	16.10	17.60	19.10	20.60	22.10
5.3	6.6	7.6	8.0	8.6	9.2	9.8
25.0	32.0	39.2	42.0	44.6	47.2	49.8
32	40	50	63	76	89	102
4.50	4.92	4.09	4.65	3.88	3.61	3.48
4.48	5.05	5.23	4.09	4.37	4.69	4.99
6.39 x 1	4.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2
1,300 x 1	900 x 2	1,300 x 2	1,300 x 2	1,300 x 2	1,300 x 2	1,400 x 2
Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
Top	Top	Top	Top	Top	Top	Top
2	2	2	2	2	2	2
255	290	290	290	340	340	340
4,250	4,250	4,833	4,833	4,833	5,667	5,667
8.00	8.00	8.00	8.00	8.00	8.00	8.00
78.45	78.45	78.45	78.45	78.45	78.45	78.45
BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor
850 x 1	850 x 1	850 x 1	850 x 1	850 x 1	850 x 1	850 x 1
9.52	9.52	12.70	12.70	15.88	15.88	19.05
3/8	3/8	1/2	1/2	5/8	5/8	3/4
19.05	22.22	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 (200)	200 (200)	200 (200)	200 (200)	200 (200)	200 (200)	200 (200)
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
FL F2	FL F2	FL F2	FL F2	FL F2	FL F2	FL F2
8410A	8410A	8410A	8410A	8410A	8410A	8410A
9.4	9.4	8.4	11.0	11.0	14.0	14.0
19.63	19.63	15.54	22.97	22.97	29.23	29.23
63	62	63	64	65	69	69
63	66	67	67	67	71	71
81	82	85	86	88	90	90
253.0	284.0	293.0	308.0	308.0	342.0	350.0
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
-5~48	-5~48	-5~48	-5~48	-5~48	-5~48	-5~48
-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24

Dimensional drawings

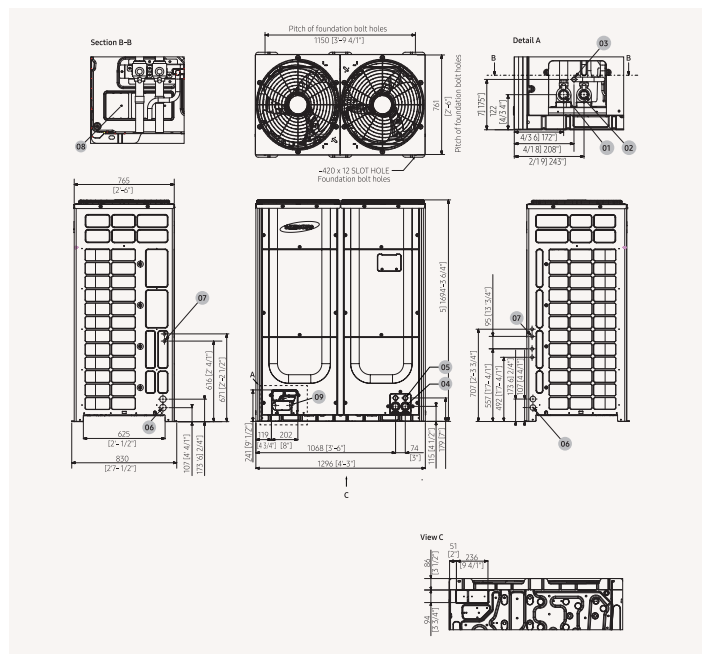
DVM S High EER Heat Pump (2-Pipe)

AH050/100/120/150/180



N.O	Name	Description
1	Refrigerant gas pipe	See note 4
2	Refrigerant liquid pipe	See note 4
3	Power wiring conduits	a44
4	Communication wiring conduits	a54
5	Power wiring conduits	a44
6	Communication wiring conduits	a22
7	Knock-out hole for Ref. piping (bottom)	
8	Knock-out hole for Ref. piping (front)	

AH140/160/180/200/220/240/300

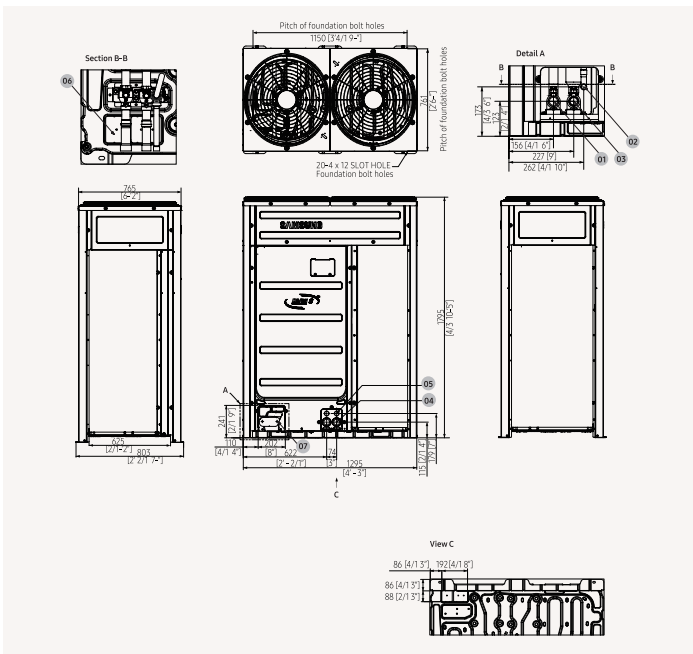


N.O	Name	Description
1	Refrigerant gas pipe	See note 4
2	Refrigerant liquid pipe	See note 4
3	Power wiring conduits	a44
4	Communication wiring conduits	a54
5	Power wiring conduits	a44
6	Communication wiring conduits	a22
7	Knock-out hole for Ref. piping (bottom)	
8	Knock-out hole for Ref. piping (front)	

Dimensional drawings

DVM S High EER Heat Pump (2-Pipe)

AMC04/2022/10/04



N.O	Nome	Descrizione
1	Refrigerant gas pipe	See note 4
2	Refrigerant liquid pipe	See note 4
3	Power wiring conduits	ø44
4	Communication wiring conduits	ø34
5	Knock-out hole for Ref. piping (bottom)	
6	Knock-out hole for Ref. piping (front)	



Specifications

DVM S Eco Heat Recovery (With Heat Recovery Changer Kit)

- Horizontal discharge and rear suction by means of two propeller BLDC inverter fans.
- Each module houses one Twin BLDC Rotary compressor.
- Night Silent Mode available.
- Eurovent certified and EIP (Ecodesign) compliant.
- Four-way direction piping connection.



Model Code		AM604N XMD ER/EU	AM605N XMD ER/EU	AM606N XMD ER/EU		
Power Supply	Φ V, Hz	10, 220-240 V, 50 Hz	10, 220-240 V, 50 Hz	10, 220-240 V, 50 Hz		
Performance	Capacity	hp	4	5	6	
		cooling	12.1	14.0	15.5	
power	power Input (Nominal)	cooling	2.69	3.41	4.13	
		heating	2.58	3.11	3.65	
	Current Input (Nominal)	cooling	4.1	5.2	6.3	
		heating	3.8	4.5	5.3	
	Cv (min)	HCA	22.0	24.0	30.0	
		WPA	25	30	40	
Energy Efficiency	EER (Nominal) Cooling	-	4.50	4.11	3.75	
	COP (Nominal) Heating	-	4.69	4.50	4.25	
	SEER	-	10.50	10.10	9.50	
	Compressor	Type	-	Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
Output	kW	-	4.04	4.04	4.04	
	Di	Type	-	PVE	PVE	PVE
	Refrigerant Charge	cc	1,700	1,700	1,700	
Fan	Type	-	Propeller/BLDC	Propeller/BLDC	Propeller/BLDC	
	Discharge Direction	-	Horizontal	Horizontal	Horizontal	
	Max Air Flow	kW x n	125.0 x 2	125.0 x 2	125.0 x 2	
	Airflow Rate	(M ³ /M ²)	m ³ /min	100	100	100
	External Static Pressure	(M ³ /M ²)	l/s	1,666.7	1,666.7	1,666.7
		mmAq	1	1	1	
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	
	Discharge Gas Pipe	ø, mm	15.88	15.88	15.88	
		ø, inch	5/8	5/8	5/8	
Installation - Length	m	150	150	150		
Installation - Height	m	50	50	50		
Field Wiring	Transmission cable	m	0.75-1.50	0.75-1.50	0.75-1.50	
	Refrigerant	Type	-	R410A	R410A	R410A
Factory Charging	kg	3.2	3.2	3.3		
	kg /CO ₂ e	6.7	6.7	6.9		
	Sound Pressure (dB(A))	52	53	53		
Sound Power	dB(A)	47	48	50		
	Net Weight	kg	970	970	980	
External Dimensions	Net Dimensions (W x H x D)	mm	940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330	
	Operating Temperature Range	Cooling	°C	-5.0-48.0	-5.0-48.0	-5.0-48.0
	Heating	°C	-25.0-26.0	-25.0-26.0	-25.0-26.0	

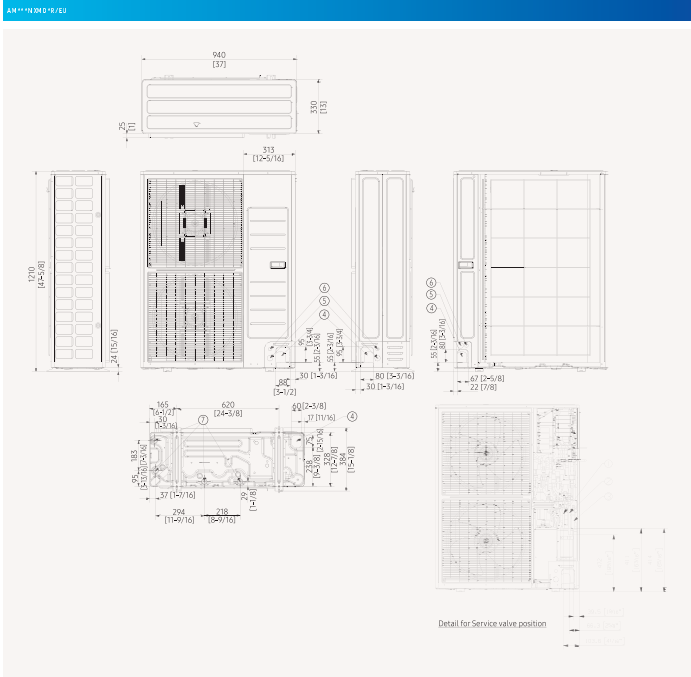
AM604N XMD GR/EU	AM605N XMD GR/EU	AM606N XMD GR/EU
30, 380-415 V, 50 Hz	30, 380-415 V, 50 Hz	30, 380-415 V, 50 Hz
4	5	6
12.1	14.0	15.5
12.1	14.0	15.5
2.69	3.41	4.13
2.58	3.11	3.65
4.1	5.2	6.3
3.8	4.5	5.3
10.0	10.0	10.0
10	16	16
4.50	4.11	3.75
4.69	4.50	4.25
10.50	10.10	9.50
Twin BLDC Rotary	Twin BLDC Rotary	Twin BLDC Rotary
4.04	4.04	4.04
PVE	PVE	PVE
1,700	1,700	1,700
Propeller/BLDC	Propeller/BLDC	Propeller/BLDC
Horizontal	Horizontal	Horizontal
125.0 x 2	125.0 x 2	125.0 x 2
100	100	100
1,666.7	1,666.7	1,666.7
1	1	1
9.52	9.52	9.52
3/8	3/8	3/8
19.05	19.05	19.05
3/4	3/4	3/4
15.88	15.88	15.88
5/8	5/8	5/8
150	150	150
50	50	50
0.75-1.50	0.75-1.50	0.75-1.50
R410A	R410A	R410A
3.2	3.2	3.3
6.7	6.7	6.9
52	52	53
47	48	50
95.0	95.0	98.0
940 x 1,210 x 330	940 x 1,210 x 330	940 x 1,210 x 330
-5.0-48.0	-5.0-48.0	-5.0-48.0
-25.0-26.0	-25.0-26.0	-25.0-26.0

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

¹Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and a acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

Dimensional drawings

DVM S Eco Heat Recovery (With Heat Recovery Changer Kit)



No	To me	5.5/3.0/1.8/0.9	
		4/5 hp	6 hp
1	Refrigerant liquid pipe		ø19.52 (ø3/8)
2	Refrigerant gas pipe	ø15.88 (ø5/8)	ø17.05 (ø3/4)
3	Knock-out hole for pipe intake		Front/Side/Rear/Bottom
4	Power wiring conduits		Front/Side/Rear, ø14.00 (ø1/2)
5	Communication wiring conduits		Front/Side/Rear, ø22.00 (ø7/8)
6	Drain holes		Connect with the provided drain plug.



Specifications

DVM S High EER Heat Recovery (3-Pipe)

- Vertical discharge and side-rear suction with by means of one (8-14 hp) or two (15-26 hp) propeller BLDC Inverter fan(s).
- Each module houses one (8-14 hp) or two (15-26 hp) Inverter Scroll compressors with Flash Injection technology.
- Night Silent Mode available.

- Pump Down function (leak detection).
- "Intelligent defrost" (air resistant factor added) technology to minimise defrost operation.
- Eurovent certified and EIP (Ecodesign) compliant.



Model Name		AM08LXVGR/CT	AM10LXVGR/CT	AM12LXVGR/CT	
Power Supply	Φ, V, Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	
Mode		HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	
Performance	hp	8	10	12	
	Capacity	Cooling kW 22.4/22.4*	28.0/28.0*	33.6/33.6*	
		Heating kW 22.7/22.4*	31.5/28.0*	37.8/33.6*	
	Max. (min.) number of connectable indoor units	14	18	21	
	Max. capacity of the connectable indoor units	Max. kW 11.2	14.0	16.8	
Power	power input	Cooling kW 4.9/4.9**	6.2/6.22**	7.5/7.53**	
		Heating kW 4.9/4.98**	5.8/5.23**	7.0/6.72**	
	Current input	Cooling A 7.40	10.00	12.30	
		Heating A 7.40	9.40	12.10	
	Current	Maximum SSc phase MVA 3.1	4.5	5.3	
Energy Efficiency	ESR	Cooling W/W 4.88/4.88*	4.50/4.50*	4.44/4.44*	
	COP	Heating W/W 5.49/5.49**	5.95/5.95**	5.00/5.00*	
	ESER	W/W 8.00	7.43	7.25	
	Output	kW/h 5.18 x 1	6.39 x 1	DS-GB06FAV** x 1	
	Model Name	Type	DS-GB05FAV** x 1	PVE	PVE
Fan	Type	Propeller	Propeller	Propeller	
	Discharge direction	Top	Top	Top	
	Number of Fans	1	1	1	
	Airflow Rate	m³/min 170	170	200	
	External Static Pressure	Max. mmH ₂ O 8.00	8.00	8.00	
Fan Motor	Type	BLDC Motor	BLDC Motor	BLDC Motor	
	Output	W/h 830 x 1	830 x 1	830 x 1	
	Line 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	
High Pressure Gas Pipe (R Only)	Ø, inch 3/4	7/8	1 1/8	1 1/8	
	Ø, mm 19.05	19.05	22.22	28.58	
	Ø, inch 3/4	3/4	3/4	1 1/8	
	Piping length (OD) (L+D)	Max. (L+D) m 200 (200)	200 (200)	200 (200)	
	Piping length (L) (Branch + D)	Max. m 90	90	90	
Wiring Connections	Transmission cable	mm² 0.75	0.75	0.75	
	Remark	F1, F2	F1, F2	F1, F2	
	Refrigerant	Type	R410A	R410A	R410A
	Recovery Charging	kg 6.5	6.5	6.5	
	Sound ¹⁾	Sound Pressure	Cooling (dB(A)) 57	58	62
		Heating (dB(A)) 59	60	64	
Sound Power		(dB(A)) 77	79	81	
Net Weight		kg 200.5	200.5	200.5	
Net Dimensions (W x H x D)		mm 880 x 1,695 x 765	880 x 1,695 x 765	880 x 1,695 x 765	
Operating Temperature Range	Cooling	°C -15~48	-15~48	-15~48	
	Heating	°C -25~24	-25~24	-25~24	



Model Name		AM14LXVGR/CT	AM16LXVGR/CT	AM18LXVGR/CT	AM20LXVGR/CT	AM22LXVGR/CT	AM24LXVGR/CT	AM26LXVGR/CT	AM28LXVGR/CT	AM30LXVGR/CT
Power Supply	Φ, V, Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz	30, 4, 380-415 V, 50 Hz
Mode		HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY	HEAT RECOVERY
Performance	hp	14	16	18	20	22	24	26	28	30
	Capacity	Cooling kW 40.0/40.0*	45.0/45.0*	50.4/50.4*	56.0/56.0*	61.6/61.6*	67.2/67.2*	72.8/72.8*	78.4/78.4*	84.0/84.0*
		Heating kW 40.0/40.0*	50.4/45.0*	56.0/50.4*	61.6/56.0*	67.2/61.6*	72.8/67.2*	78.4/72.8*	84.0/78.4*	89.6/84.0*
	Max. (min.) number of connectable indoor units	26	29	32	36	40	43	47	51	55
	Max. capacity of the connectable indoor units	Max. kW 20.0	22.5	25.2	28.0	30.8	33.6	36.4	39.2	42.0
Power	power input	Cooling kW 8.89/8.89**	10.92/10.92**	10.68/10.32**	12.50/13.85**	15.75/15.88**	16.00/16.61**	17.50/17.92**	19.00/19.59**	20.50/20.92**
		Heating kW 9.0/8.59**	10.75/9.99**	10.50/10.00**	12.75/12.25**	15.88/15.88**	16.41/15.28**	17.61/17.31**	19.00/18.51**	20.50/20.00**
	Current input	Cooling A 14.50	17.50	17.00	20.00	24.00	24.00	27.00	28.50	29.50
		Heating A 14.40	17.20	16.90	20.50	25.40	21.20	27.40	28.50	29.50
	Current	Maximum SSc phase MVA 5.3	6.6	7.6	8.0	8.6	12.2	12.2	12.2	12.2
Energy Efficiency	ESR	Cooling W/W 4.90/4.90*	4.71/4.71*	4.71/4.69*	4.48/4.48*	4.48/4.48*	4.20/4.20*	4.20/4.20*	4.20/4.20*	4.20/4.20*
	COP	Heating W/W 4.68/4.68**	4.90/4.90**	5.00/5.00**	4.94/4.94**	4.37/4.37**	4.90/4.90**	4.80/4.80**	4.80/4.80**	4.80/4.80**
	ESER	W/W 8.00	7.38	7.25	6.82	6.43	7.17	7.17	7.17	7.17
	Output	kW/h 6.39 x 1	4.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2	6.39 x 2
	Model Name	Type	DS-GB06FAV** x 1	DS-GA06FAV** x 2	DS-GB06FAV** x 2	DS-GB06FAV** x 2	DS-GB06FAV** x 2	DS-GB06FAV** x 2	DS-GB06FAV** x 2	DS-GB06FAV** x 2
Fan	Type	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller	Propeller
	Discharge direction	Top	Top	Top	Top	Top	Top	Top	Top	
	Number of Fans	2	2	2	2	2	2	2	2	
	Airflow Rate	m³/min 255	255	290	290	340	340	340	340	
	External Static Pressure	Max. mmH ₂ O 8.00	8.00	8.00	8.00	8.00	8.00	8.00	8.00	
Fan Motor	Type	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	BLDC Motor	
	Output	W/h 620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2	
	Line Pipe	Ø, mm 12.70	12.70	15.88	15.88	15.88	15.88	15.88	15.88	
		Ø, inch 1/2	1/2	5/8	5/8	5/8	5/8	5/8	5/8	
	Gas Pipe	Ø, mm 28.58	28.58	28.58	28.58	28.58	34.92	34.92	34.92	
High Pressure Gas Pipe (R Only)	Ø, inch 1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	
	Ø, mm 22.22	22.22	22.22	28.58	28.58	34.92	34.92	34.92	34.92	
	Ø, inch 7/8	7/8	7/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	1 1/8	
	Piping length (OD) (L+D)	Max. (L+D) m 200 (200)	200 (200)	200 (200)	200 (200)	200 (200)	200 (200)	200 (200)	200 (200)	
	Piping length (L) (Branch + D)	Max. m 90	90	90	90	90	90	90		
Wiring Connections	Transmission cable	mm² 0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75	
	Remark	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	F1, F2	
	Refrigerant	Type	R410A	R410A	R410A	R410A	R410A	R410A	R410A	
	Recovery Charging	kg 9.4	9.4	8.4	11.0	11.0	14.0	14.0	14.0	
	Sound ¹⁾	Sound Pressure	Cooling (dB(A)) 59	61	63	64	65	69	69	69
		Heating (dB(A)) 61	62	63	64	65	67	67	67	
Sound Power		(dB(A)) 81	82	85	86	88	90	90	90	
Net Weight		kg 254.0	285.0	302.0	314.0	314.0	350.0	358.0	358.0	
Net Dimensions (W x H x D)		mm 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	1,295 x 1,695 x 765	
Operating Temperature Range	Cooling	°C -15~48	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48	-15~48	
	Heating	°C -25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	-25~24	

¹⁾ Performance is 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⁾ Eurovent certified.

Specifications

DVM S Water

- Water Cooled, Variable Refrigerant Flow Heat Pump/ Heat Recovery Unit R410A.
- Suitable for indoor and outdoor installation.
- Each unit houses one (8-12 hp) or two (20-30 hp) Inverter Scroll compressors with Flash Injection technology.



Model Name		AM200KWA/R/EU	AM100KWA/R/EU	AM200KWA/R/EU
Power Supply	Φ, V, Hz	30, 4, 380-415 V, 50/60 Hz	30, 4, 380-415 V, 50/60 Hz	30, 4, 380-415 V, 50/60 Hz
Performance	Capacity (Nominal)	8	10	12
	Cooling (Nominal)	22.4	28.0	33.6
	Heating (Nominal)	25.2	31.5	37.8
	Maximum number of connectable indoor units	14	18	22
Capacity of the outdoor indoor units	Max. (Nominal)	11.2	14.0	16.8
	Cooling (Nominal)	29.1	36.4	43.7
	Heating (Nominal)	3.67	4.57	5.50
	Compressor (Nominal)	3.97	5.04	6.25
Current Input (Nominal)	Cooling	5.9	8.1	9.6
	Heating	6.4	8.4	10.0
	Max. (Nominal)	3.9	3.9	4.8
	Max. (Nominal)	16.3	16.3	20.0
COP	Cooling	4.20	2.5	4.0
	Heating	5.20	5.75	5.60
Compressor	Type	-	Inverter Scroll	Inverter Scroll
	Output	-	4.96 x 1	4.96 x 1
Oil	Type	-	PVE	PVE
	Indoor Charge	cc	3.900	3.900
Condenser	Type	Type	Plate Heat Exchanger	Plate Heat Exchanger
	Pipe Size	a, inch	PT1 1/4	PT1 1/4
	Pressure Drop	kPa	22	30
	Water Flow Rate	l/min	80	96
	Max. Pressure	MPa	1.96	1.96
	Liquid Pipe	a, mm	9.52	9.52
	a, inch	3/8	3/8	1/2
	Gas Pipe	a, mm	19.05	22.22
	a, inch	3/4	7/8	1 1/8
	a, mm	15.88	19.05	25.58
Piping Connections	Discharge Gas Pipe	Outdoor-Indoor	Max. m	170 (190)
		After Branch	Max. m	90
	Total piping length	System	Max. m	500
		Level Difference	Outdoor-Indoor	Max. m
	Indoor-Indoor	Max. m	50	
	Wiring Connections	Communication	Max. m	0.75
		Remark	-	FL12
	Refrigerants	Type	-	R410A
		Factory Charging	kg	5.5
	Sound ¹⁾	Sound Pressure	Cooling	48
Sound Power		Heating	51	
External Dimensions	Net Weight	kg	160.0	
	Net Dimensions (W x H x D)	mm	770 x 1,000 x 545	
Operating Temperature Range	Cooling	°C	10.0-45.0	
	Heating	°C	10.0-45.0	

AM300KWA/R/EU	AM300KWA/R/EU
30, 4, 380-415 V, 50/60 Hz	30, 4, 380-415 V, 50/60 Hz
20	30
56.0	84
63	94.5
36	55
28.0	42.0
72.8	109.2
10.77	16.80
10.84	16.88
17.3	26.4
17.4	26.5
7.7	-
32.2	48.0
40	63
5.20	5.00
5.80	5.60
Inverter Scroll	SSC Scroll x 2
4.96 x 2	6.75 x 2
PVE	PVE
4.200	4.200
Plate Heat Exchanger	Plate Heat Exchanger
PT1 1/4	PT2
54	50
190	205
1.96	1.96
15.88	19.05
5/8	3/4
28.58	34.92
13/8	1 3/8
28.58	28.58
11/8	1 1/8
170 (190)	170 (190)
90	90
500	500
50	50
40	40
50	50
0.75	0.75
FL12	FL12
R410A	R410A
9.8	11.0
20.46	22.96
51	55
52	58
73	75
240.0	280.0
1,300 x 1,000 x 545	1,300 x 1,000 x 545
10.0-45.0	10.0-45.0
10.0-45.0	10.0-45.0

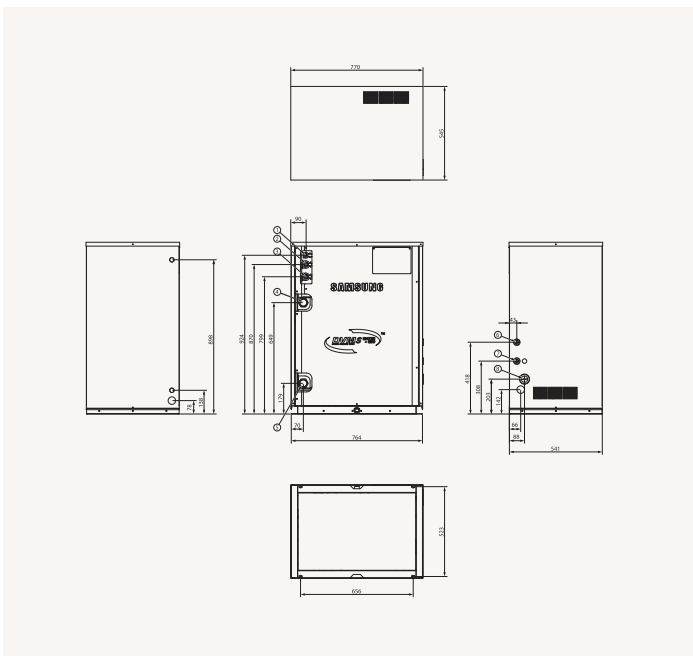
Performances are based on the following test conditions:
 - Cooling: Indoor temperature: 27 °C DB, 19 °C WB, inlet water temperature: 30 °C
 - Heating: Indoor temperature: 20 °C DB, 15 °C WB, inlet water temperature: 20 °C
 - Equivalent refrigerant piping: 7.5 m, Level differences: 0 m

¹⁾ Sound pressure level is obtained in an anechoic room. Sound pressure level is a relative value, depending on the distance and a acoustic environment. Sound pressure level may differ according to operating conditions. Sound power level is an absolute value that a sound source generates.

Dimensional Drawing

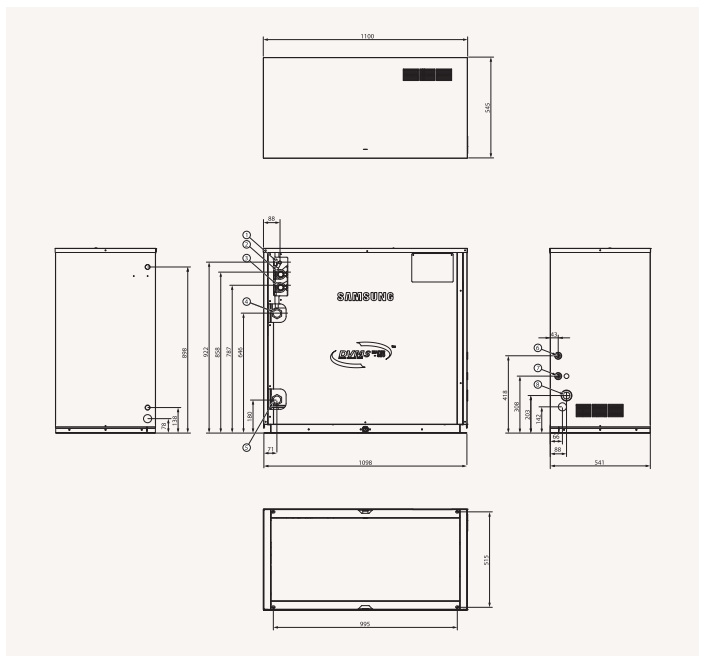
DVM S Water

A 40327 (S) 12048 (S) 40318 (S)



Nº	Nome	Descrizione
1	Liquid Ref. pipe	ø19.05 (3/4")
2	High Pressure Gas Ref. pipe	ø28.58 (1.1318)
3	Low Pressure Gas Ref. pipe	ø34.92 (1.375)
4	Water outlet pipe	PT 2
5	Water inlet pipe	PT 2
6	Communication wiring conduits	
7	External contact wiring	
8	Power wiring conduits	

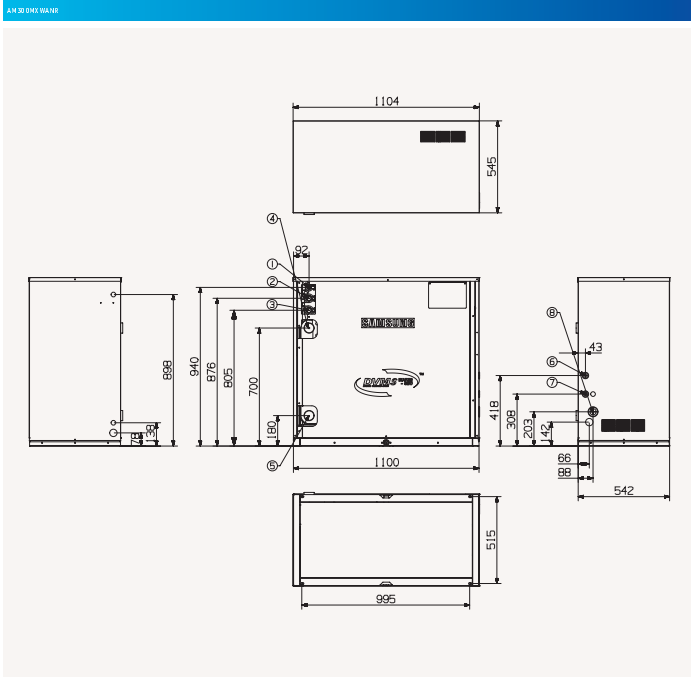
A 412 (D) 40318 (S)



Nº	Nome	Descrizione
1	Liquid Ref. pipe	15.88 (5/8")
2	High Pressure Gas Ref. pipe	ø28.58 (1.1318)
3	Low Pressure Gas Ref. pipe	ø28.58 (1.1318)
4	Water outlet pipe	PT11/4
5	Water inlet pipe	PT11/4
6	Communication wiring conduits	
7	External contact wiring	
8	Power wiring conduits	

Dimensional Drawing

DVM S Water



NO	Uo m	Description
1		Liquid Ref. pipe ø19.05 (3/4")
2		High Pressure Gas Ref. pipe ø28.58 (1 1/8")
3		Low Pressure Gas Ref. pipe ø34.92 (1 3/8")
4		Water outlet pipe PT 2
5		Water inlet pipe PT 2
6		Communication wiring conduits
7		External contact wiring
8		Power wiring conduits

