

SAMSUNG
Climate Solutions

VRF



DVM S2 Standard Heat Pump (2-Pipe)

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- 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™.

Specifications



Model			AM080AXVAGH/EU	AM100AXVAGH/EU	AM120AXVAGH/EU	AM140AXVAGH/EU	AM160AXVAGH/EU
Electrical							
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	3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz
Minimum SSC value		MVA	3.0	3.7	4.0	4.6	5.2
MCA		A	18.0	23.0	25.0	29.0	32.0
MFA		A	25	32	32	32	40
Interconnecting Communication Cable		mm ²	Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection				
Performance¹							
Horsepower		HP	8	10	12	14	16
Capacity (Rated)	Nominal Cooling Capacity	kW	22.4	28.0	33.6	40.0	45.0
	Nominal Heating Capacity	kW	22.4	28.0	33.6	40.0	45.0
	Max Heating Capacity	kW	25.2	31.5	37.8	45.0	50.4
Operating Temperature Range	Cooling	°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating	°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Maximum quantity of connectable indoor units		ea	14	18	21	26	29
Energy Efficiency²							
Seasonal Efficiency (Ducted)	SEER	W/W	6.50	6.20	6.60	6.40	6.50
	SCOP	W/W	4.20	4.20	4.40	4.20	4.30
	η _{s,c}	%	257.0	245.0	261.0	253.0	257.0
	η _{s,h}	%	165.0	165.0	173.0	165.0	169.0
Seasonal Efficiency (Cassettes)	SEER	W/W	7.58	6.93	7.00	6.69	6.84
	SCOP	W/W	4.06	4.23	4.28	4.17	4.22
	η _{s,c}	%	300.2	274.2	277.0	264.6	270.6
	η _{s,h}	%	159.4	166.2	168.2	163.8	165.8
Fan							
Type		-	Propeller	Propeller	Propeller	Propeller	Propeller
Discharge Direction			Top	Top	Top	Top	Top
Number of Fans		ea	1	1	1	1	2
Fan Motor	Model	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output x n	W	630 x 1	630 x 1	630 x 1	630 x 1	620 x 2
Airflow Rate		m ³ /min	151	167	196	210	303
		l/s	2515	2779	3260	3500	5052
Static Pressure	Max	Pa	110	110	110	80	110
Compressor							
Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 1
Output x n		kW	4.60 x 1	6.67 x 1	6.67 x 1	6.67 x 1	8.93 x 1
Piping Connections							
Liquid Pipe		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.70 (1/2)	12.70 (1/2)	12.70 (1/2)
Gas Pipe		ø, mm (inch)	19.05 (3/4)	22.22 (7/8)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Factory Charging		kg	5.5	5.5	7.0	7.0	8.0
		tCO ₂ e	11.48	11.48	14.62	14.62	16.70
Sound							
Sound Pressure Level	Cooling	dB(A)	53	56	61	63	60
	Heating	dB(A)	58	60	63	65	62
Sound Power Level		dB(A)	75	78	81	85	81
Dimensions							
Net Weight		kg	175.0	185.0	205.0	207	242
Net Dimensions	W x H x D	mm	930 x 1695 x 765	930 x 1695 x 765	930 x 1695 x 765	930 x 1695 x 765	1295 x 1695 x 765

¹ Performances are based on the following test conditions.

- Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
- Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
- Equivalent refrigerant pipe length 7.5m, Level differences 0m

² Efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.

Specifications



Model			AM180AXVAGH/EU	AM200AXVAGH/EU	AM220AXVAGH/EU	AM240AXVAGH/EU	AM260AXVAGH/EU
Electrical							
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	3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz
Minimum SSC value		MVA	6.3	7.0	7.4	9.3	10.2
MCA		A	39.2	43.0	46.0	55.0	60.0
MFA		A	50	63	63	63	75
Interconnecting Communication Cable		mm ²	Screened 0.75-1.5mm ² , 2 Core, F1 F2 Connection				
Performance¹							
Horsepower		HP	18	20	22	24	26
Capacity (Rated)	Nominal Cooling Capacity	kW	50.4	56.0	61.6	67.2	72.8
	Nominal Heating Capacity	kW	50.4	56.0	61.6	67.2	68.0
	Max Heating Capacity	kW	56.7	63.0	69.3	75.6	81.9
Operating Temperature Range	Cooling	°C	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50	-5 ~ 50
	Heating	°C	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24	-25 ~ 24
Maximum quantity of connectable indoor units		ea	32	36	40	43	47
Energy Efficiency²							
Seasonal Efficiency (Ducted)	SEER	W/W	6.10	6.20	5.90	5.60	5.10
	SCOP	W/W	4.20	4.10	4.10	3.70	3.70
	ηs,c	%	241.0	245.0	233.0	221.0	201.0
	ηs,h	%	165.0	161.0	161.0	145.0	145.0
Seasonal Efficiency (Cassettes)	SEER	W/W	6.38	6.61	6.83	5.76	5.29
	SCOP	W/W	4.16	4.14	4.26	3.70	3.70
	ηs,c	%	252.2	261.4	270.2	227.4	208.6
	ηs,h	%	163.4	162.6	167.4	145.0	145.0
Fan							
Type		-	Propeller	Propeller	Propeller	Propeller	Propeller
Discharge Direction			Top	Top	Top	Top	Top
Number of Fans		ea	2	2	2	2	2
Fan Motor	Model	-	BLDC	BLDC	BLDC	BLDC	BLDC
	Output x n	W	620 x 2	620 x 2	620 x 2	620 x 2	620 x 2
Airflow Rate		m ³ /min	324	313	342	365	365
		l/s	5401	5209	5698	6089	6089
Static Pressure	Max	Pa	110	110	110	80	80
Compressor							
Type		-	Inverter Scroll x 1	Inverter Scroll x 1	Inverter Scroll x 2	Inverter Scroll x 2	Inverter Scroll x 2
Output x n		kW	8.93 x 1	8.93 x 1	6.67 x 2	6.67 x 2	6.67 x 2
Piping Connections							
Liquid Pipe		ø, mm (inch)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	15.88 (5/8)	19.05 (3/4)
Gas Pipe		ø, mm (inch)	28.58 (1-1/8)	28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)	34.92 (1-3/8)
Refrigerant							
Type			R410A (Fluorinated greenhouse gas, GWP=2088)				
Factory Charging		kg	8.0	10.5	10.5	14.0	14.0
		tCO ₂ e	16.70	21.92	21.92	29.23	29.23
Sound							
Sound Pressure Level	Cooling	dB(A)	61	61	64	65	65
	Heating	dB(A)	64	63	65	67	67
Sound Power Level		dB(A)	83	84	86	87	87
Dimensions							
Net Weight		kg	242	268	301	325	325
Net Dimensions	W x H x D	mm	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765	1295 x 1695 x 765

¹ Performances are based on the following test conditions.

- Cooling: Indoor temperature 27°CDB, 19°CWB, Outdoor temperature 35°CDB, 24°CWB
- Heating: Indoor temperature 20°CDB, 15°CWB, Outdoor temperature 7°CDB, 6°CWB
- Equivalent refrigerant pipe length 7.5m, Level differences 0m

² Efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.