SAMSUNGClimate Solutions





DVM S Water HP/HR Water Cooled VRF

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- Water Cooled, Variable Refrigerant Flow Heat Pump/Heat Recovery Unit R410A.
 Each unit houses one (8–12 HP) or two (20–30 HP) Inverter Scroll compressors with Flash Injection technology.

 • Comes with a built-in Water Flow Controller that helps control the amount of water used to
- cool and heat an outdoor unit.

• Can be connected to various heat sources such as dry-air coolers, boilers, heat networks, geothermal loops and more.

Specifications











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Mark Surgicy		Model		AM080MXWANR/EU	AM100MXWANR/EU	AM120MXWANR/EU	AM200MXWANR/EU	AM300KXWANR/EU
Minimus Sciule	Electrical							
Minimus Sciule	Power Supply		Φ, #, V, Hz	3Φ, 4, 380-415 V, 50 Hz	3Φ, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz	3Ф, 4, 380-415 V, 50 Hz
MA								
Membrancence of the mark of t	MCA							
International Communication Improved I								
Network	Interconnecting							
Part	Performance ¹							
Part			HP	8	10	12	20	30
Main Mart	Capacity (Rated)	Nominal Cooling Capacity						
Mething								
Meating Meat	Inlet Water Temperature Operating Range							
Part								
March Mar		Heating		10.0 ~ 45.0 °C	10.0 ~ 45.0 °C	10.0 ~ 45.0 °C	10.0 ~ 45.0 °C	10.0 ~ 45.0 °C
Real Efficiency File	ndoor units		ea	14	18	22	36	55
COP								
Marcian Marc	Rated Efficiency							
Part		СОР	W/W	6.35	6.25	6.05	5.8	5.6
Per	Seasonal Efficiency	ης,ς	%	458.2	440.2	438.2	421.8	421.8
PHE (Plate Heat Exchanger		ηs,h	%	313.4	313.4	303.8	289	280.2
	Heat Exchanger							
Nate Flow Rate (Rated)	Гуре		-	PHE (Plate Heat Exchanger)	PHE (Plate Heat Exchanger)	PHE (Plate Heat Exchanger)	PHE (Plate Heat Exchanger)	PHE (Plate Heat Exchange
Mater Flow Rate (Rated)	Pipe Size		Ø, inch	PT1-1/4	PT1-1/4	PT1-1/4	PT1-1/4	PT2
LPM	Pressure Drop (Rated)		kPa	22	30	43	54	50
May 1.96 1	Water Flow Rate (Rated)		LPM	80	96	114	190	285
Paris	Nater Flow Rate (Range)		LPM	48~96	58~115	68~137	114~228	170~342
Type - Inverter Scroll 5.18 x 1 5.18 x 1 6.39 x 1 5.18 x 2 6.75 x 2 6.75 x 2 6.75 x 2 7.75 x 2 <	Max. Water Pressure		MPa	1.96	1.96	1.96	1.96	1.96
Number N	Compressor							
New Prince New	Гуре		-	Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll	Inverter Scroll
			kW	5.18 x 1	5.18 x 1	6.39 x 1	5.18 x 2	6.75 x 2
Same	· ·		ø, mm (inch)	9.52 (3/8)	9.52 (3/8)	12.7 (1/2)	15.88 (5/8)	19.05 (3/4)
Section Sect				19.05 (3/4)		28.58 (1-1/8)	28.58 (1-1/8)	34.92 (1-3/8)
Refrigerant Type R410A (Fluorinated greenhouse gas, GWP=2088) Factory Charging kg 5.5 5.8 6 9.8 11 Sound Tournet Feesure Level Cooling dB(A) 45 47 47 50 56 Feesure Level Beating dB(A) 46 49 50 52 58 Sound Power Level dB(A) 70 70 70 73 75 Dimensions Net Weight kg 16.0 160.0 160.0 240.0 280.0	Discharge Gas Pipe							
Formula (Plus in Legis of Supper 2008) R410A (Flus in lated green house gas, GWP = 2088) Factory Charging kg 5.5 5.8 6 9.8 11 Found Code 11.48 12.11 12.53 20.46 22.96 Sound Pressure Level Cooling dB(A) 45 47 47 50 56 Heating dB(A) 46 49 50 52 58 Sound Power Level dB(A) 70 70 73 75 Dimensions Net Weight kg 16.0 160.0 160.0 240.0 280.0	Refrigerant							
Factory Charging kg 5.5 5.8 6 9.8 11 Sound Choing 11.48 12.11 12.53 20.46 22.96 Sound Pressure Level Cooling dB(A) 45 47 47 50 56 Heating dB(A) 46 49 50 52 58 Sound Power Level B(A) 70 70 70 73 75 Dimensions Net Weight kg 16.0 16.0 16.0 24.0 28.0					R410A (F	Fluorinated greenhouse gas. GV	/P=2088)	
tCO2e 11.48 12.11 12.53 20.46 22.96 Sound Sound Pressure Level Cooling dB(A) 45 47 47 50 56 Heating dB(A) 46 49 50 52 58 Sound Power Level dB(A) 70 70 70 73 75 Dimensions Net Weight kg 160.0 160.0 160.0 240.0 280.0	Factory Charging		ka	5.5				11
Sound Sound Pressure Level Cooling dB(A) 45 47 47 50 56 Heating dB(A) 46 49 50 52 58 Sound Power Level dB(A) 70 70 70 73 75 Dimensions Net Weight kg 160.0 160.0 160.0 240.0 280.0								
Gound Pressure Level Cooling dB(A) 45 47 47 50 56 Heating dB(A) 46 49 50 52 58 Sound Power Level dB(A) 70 70 70 73 75 Dimensions Net Weight kg 160.0 160.0 160.0 240.0 280.0	Sound				·			
Heating dB(A) 46 49 50 52 58 Sound Power Level dB(A) 70 70 70 73 75 Dimensions Net Weight kg 160.0 160.0 160.0 240.0 280.0	Sound Pressure Level	Cooling	dB(A)	45	47	47	50	56
Sound Power Level dB(A) 70 70 70 73 75 Dimensions Vet Weight kg 160.0 160.0 160.0 240.0 280.0								
Dimensions kg 160.0 160.0 160.0 240.0 280.0	Sound Power Level							
Net Weight kg 160.0 160.0 160.0 240.0 280.0			050.7	, 0	, 0	,,,	7.5	,,
			ka	160.0	160.0	160.0	240.0	290.0
WX TX U MIIII //U X 10000 X 545 //U X 10000 X 545 1100 X 10000 X 545 1100 X 10000 X 545		WyllyD						
	MET DIMENSIONS	WAIIXD	111111	770 X 1000 X 343	770 X 1000 X 343	770 X 1000 X 345	1100 x 1000 x 345	1100 x 1000 x 545

¹ 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 pipe length 7.5m, Level differences 0m

Equivalent rerrigerant pipe length 7.5m, Level differences um
 Anti-freeze must be used when temperature of water inlet for heating is below 10°C or ground source heat is used.
 Minimum water inlet temperature for heating: -5°C Freezing point of anti-freeze must be below -8°C.
 Minimum water inlet temperature for heating: -10°C Freezing point of anti-freeze must be below -15°C.
 Seasonal efficiencies shown are according to EU No 2016/2281 (LOT 21) Ecodesign requirements for heat pumps/air conditioners.