



HOT WATER MODULE

Create a single solution for our customers heating, cooling and domestic hot water requirements. Design and produce a low temperature hot water module, capable of producing up to 50°C outlet water temperature, whilst maximizing the performance and efficiency of the entire VRF system.

New Design, specifically engineered for VRF application.

Operating Control designed specifically to maximize both performance and efficiency.

Technical specifications

Model				MMW	AP0271LQ-E	AP0561LQ-E
Heating capacity *1				kW	8.0	16.0
Electrical characteristics	Power supply *2			1 phase 50 Hz 230 V (220 - 240 V)		
	Running current			A	0.08	0.08
	Power consumption			W	14	14
Appearance				Zinc hot dipping steel plate		
Dimension	Unit	Height	mm	580		
		Width (leg included)	mm	400 (467)		
		Depth	mm	250		
	Packed *3	Height	mm	357		
		Width	mm	638		
		Depth	mm	833		
Weight	Unit		kg	17.8	20.3	
	Packed		kg	23	25	
Design Pressure	Refrigerant side		MPa	3.73		
	Water side		MPa	1.0		
Heat exchanger				Plate type heat exchanger		
Heat-insulating material				Polyethylene foam + Polyurethane foam		
Water flow rate	Standard		L/min	22.9	45.8	
	Min.		L/min	19.5	38.9	
Water pressure loss (at standard water flow rate)			kPa	40.5	44.2	
Controller				Remote controller		
Operation range	Ambient	indoor Allowable dew point	°C DB	5 - 32		
			°C WB	23 or less		
			RH(%)	30 - 85		
	Water inlet side	Outdoor (at heating)	°C WB	-20 - 19		
			°C	15 or more and 45* or less		
	Water outlet side		°C	25 - 50		
Water filter				Strainer with Mesh 30 to 40 (procured locally)		
Connecting pipe	Water pipe	Inlet		R 1 - 1/4		
		Outlet		R 1 - 1/4		
	Refrigerant pipe	Gas pipe	mm	φ15.9 flare connection		
		Liquid pipe	mm	φ9.5 flare connection		
	Drain pipe		R1			
Sound pressure level			dB (A)	25	27	

*Up to 50°C, with an external heater (locally supplied)



Capacity line up - 8kW & 16kW

All models come in single phase (220 – 230V ~ 50Hz)

Maximum 50% HWM to FCU diversity

(Max 2 HWM's per refrigerant system)

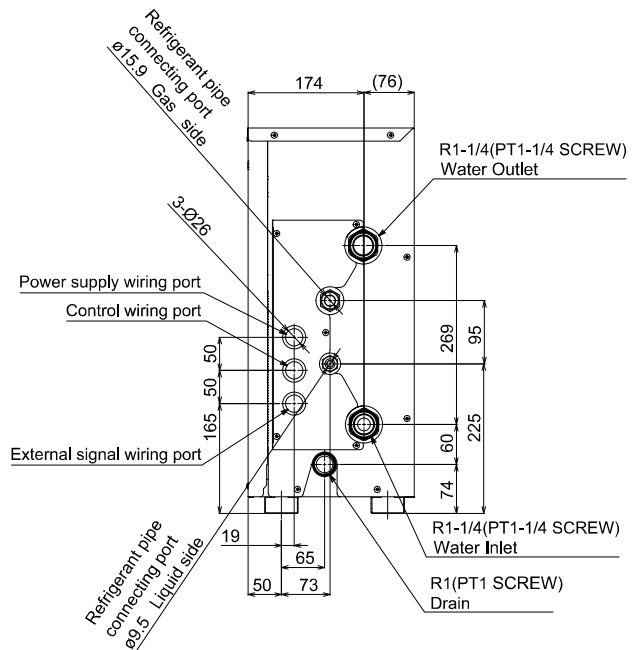
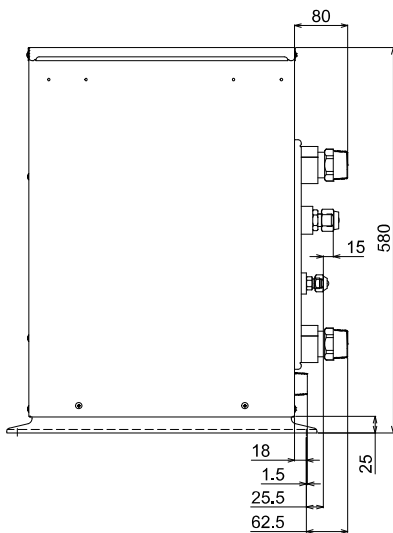
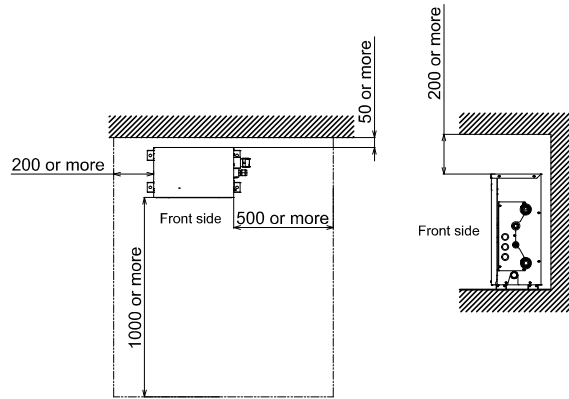
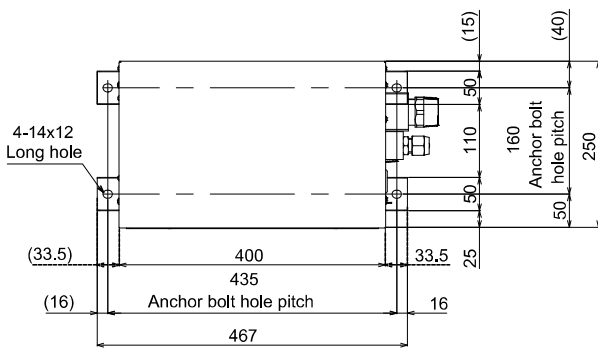
Maximum system diversity 90 - 105%

Max COP 4.52 (8Hp – 100% demand)

Outdoor operation range

Heating: -20C to TBC WB

Hot water: -20C to TBC WB



(Unit:mm)

*1: Rated conditions: entering condenser water temp. 30 °C leaving condenser water temp. 35 °C Outdoor air temp. 7 °CDB / 6 °CWB
 The standard piping means that mean pipe length is 5 m, branching pipe length is 2.5 m of branch piping connected with a 0 meter height.
 *2: The source voltage must not fluctuate more than ±10 %.
 *3: The unit is packed in a sideways state.
 *4: This specification is value as of May, 2014, please note that specification is subject to change without notice.