

Air Conditioning

Product Information

PQRY-P450YLM-A

Heat Pump Water Cooled
Condensing Unit (H-VRF)

Making a
World of
Difference

CITY MULTI



The WR2 system has double heat recovery potential, making this system very economical. Not only does it produce heat recovery from indoor units on the same refrigerant circuit, it also produces heat recovery via the water circuit between heat source units. The water cooled units benefit from a modular design approach.

Key Features

- High efficiency thanks to careful control of the system
- Large operational water circuit temperature band
- All the benefits of the R2 Series with water cooled condensing units, using inverter control
- Unique 2-pipe system allows simultaneous heating and cooling plus heat recovery between up to 45 indoor units as with the R2 system
- Total building heat recovery made possible by exchanging energy in both refrigerant, water circuits and waste heat
- Pipe run of 165m with a total system pipe length of up to 750m
- High Sensible Cooling Function
- Able to operate with closed loop and open loop ground source water temperatures, bore hole and slinky applications are possible
- Easy maintenance - front panel access to all PCB's
- Condensing units must be situated indoors
- Utilised with the HBC (City Multi, HVRF, O.U.)



Air Conditioning | Heating
Ventilation | Controls

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PQRY - CONDENSING UNIT		PQRY-P450YLM-A
CAPACITY (kW)	Heating (nominal)	56.0
	Cooling (nominal)	50.0
POWER INPUT (kW)	Heating (nominal)	11.11
	Cooling (nominal)	12.05
OPERATING WATER VOLUME (m ³ /h)		4.5 ~ 11.6
GUARANTEED OPERATING RANGE (°C) Heating / Cooling		-5~45 / -5~45
COP / EER (nominal)		5.04 / 4.14
SCOP / SEER		4.55 / 4.78
MAX NO. OF CONNECTABLE INDOOR UNITS		45
MAX CONNECTABLE CAPACITY		50 ~ 150%
PIPE SIZE mm (in)	Gas	28.58 (1 1/8")
	Liquid	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		54
SOUND POWER LEVEL (dBA)		70
WEIGHT (kg)		216
DIMENSIONS (mm)	Width	880
	Depth	550
	Height	1450
ELECTRICAL SUPPLY*		380-415v, 50Hz
PHASE*		Three
STARTING CURRENT (A)		8
NOMINAL SYSTEM RUNNING CURRENT (A)* Heating / Cooling [MAX]		15.1 / 14.3 [32.9]
FUSE RATING (BS88) - HRC (A)*		1 x 40A
MAINS CABLE No. Cores*		4 + earth

Notes:

* A separate power supply is required for each module.

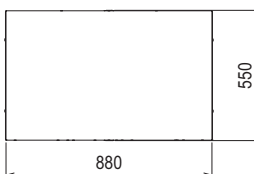
Condensing unit must be installed inside a building.

Non-stock item - 16-20 weeks lead time

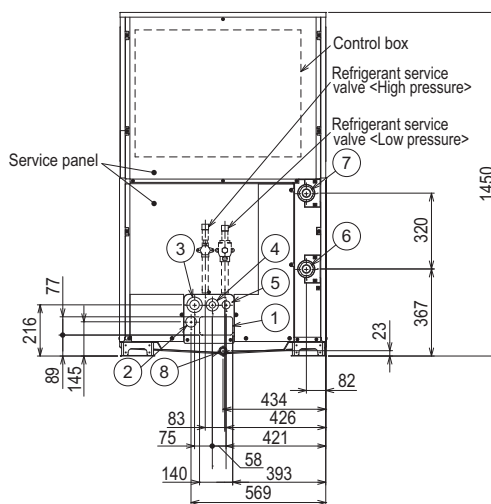
**28.58mm(1 1/8") if furthest length ≥ 65m

DIMENSIONS

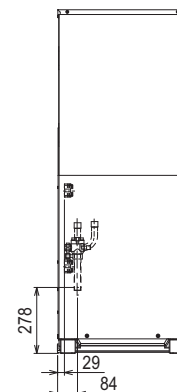
Top View



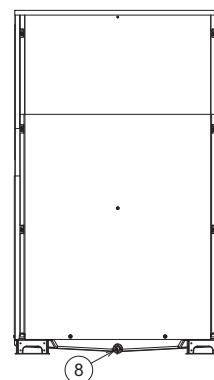
Front View



Side View



Back View



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Note: The fuse rating is for guidance only. Please refer to the relevant databook for detailed specification. It is the responsibility of a qualified electrician/electrical engineer to select the correct cable size and fuse rating based on current regulation and site specific conditions. Mitsubishi Electric's air conditioning and heat pump systems contain fluorinated greenhouse gases R410A, R407C and R134a.



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