

WR2 Series HVRF

(22.4-56kW)

Simultaneous Heating and Cooling with Double Heat Recovery,
Water Cooled Condensing Unit

CITY MULTI

The City Multi **WR2** Series HVRF Heat Recovery system is ideal where a water loop is available and outdoor space is limited.

These models utilise water instead of air as the energy transfer medium, and benefit from all of the same technology and flexibility as air sourced VRF systems. City Multi WR2 systems provide the ultimate solution for a breadth of applications requiring simultaneous heating and cooling, including hotels, offices, leisure, retail and high-end residential.



Key Features & Benefits:

- High efficiency, modular systems, with ability to recover energy on the refrigerant circuit and between units on the water circuit, in either a closed or open loop building, or ground source application
- Able to utilise waste heat from commercial sources such as server cooling, or renewable heat from landlord loops, rivers, lakes or geothermal sources

Very low impact footprint and service space requirements, ideal for internal location

- Provides continuous heating in winter, without the need for defrost operation



Air Conditioning Product Information

WR2 Series HVRF (22.4-56kW) Simultaneous Heating and Cooling with Double Heat Recovery, Water Cooled Condensing Unit



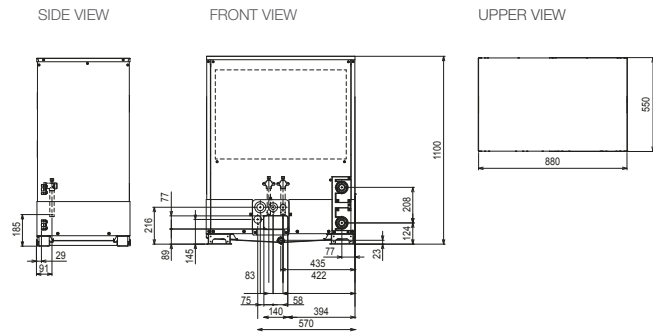
CONDENSING UNITS		PQRY-P 200YLM-A1	PQRY- P250YLM-A1	PQRY- P300YLM-A1	PQRY-P300YLM-A1 (2 x Main)	PQRY- P350YLM-A1	PQRY-P350YLM-A1 (2 x Main)	PQRY- P400YLM-A1	PQRY- P450YLM-A1	PQRY- P500YLM-A1	
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	37.5	45.0	45.0	50.0	56.0	63.0	
	Cooling (nominal)	22.4	28.0	33.5	33.5	40.0	40.0	45.0	50.0	56.0	
POWER INPUT (kW)	Heating (nominal)	4.04	5.41	7.13	6.79	8.87	8.25	9.45	11.11	13.07	
	Cooling (nominal)	3.97	5.44	7.55	6.71	9.98	8.72	10.05	12.05	14.58	
OPERATING WATER VOLUME (m³/h)		3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	3.0 ~ 7.2	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6	4.5 ~ 11.6	
GUARANTEED OPERATING RANGE (°C)		Heating / Cooling	-5~45 / -5~45	10~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	-5~45 / -5~45	
COP / EER (nominal)			6.18 / 5.64	5.82 / 5.14	5.25 / 4.43	5.52 / 4.99	5.07 / 4.00	5.45 / 4.58	5.29 / 4.47	5.04 / 4.14	
MAX NO. OF CONNECTABLE INDOOR UNITS			20	25	30	30	35	35	40	45	
MAX CONNECTABLE CAPACITY			50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	50 ~ 150%	
PIPE SIZE mm (in)		Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	28.58 (1 1/8")	
		Liquid	15.88 (5/8")	19.05 (3/4")	19.05 (3/4")	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	
SOUND PRESSURE LEVEL (dBA)			46	48	54	54	52	52	54	54	
SOUND POWER LEVEL (dBA)			60	62	68	68	66	66	70	70.5	
WEIGHT (kg)			173	173	173	173	217	217	217	217	
DIMENSIONS (mm)		Width	880	880	880	880	880	880	880	880	
		Depth	550	550	550	550	550	550	550	550	
		Height	1100	1100	1100	1100	1450	1450	1450	1450	1450
ELECTRICAL SUPPLY ¹			380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	
PHASE ¹			Three	Three	Three	Three	Three	Three	Three	Three	
STARTING CURRENT (A)			8	8	8	8	8	8	8	8	
NOMINAL SYSTEM RUNNING CURRENT (A) ¹ Heating / Cooling [MAX]			6.4 / 6.3 [16.1]	8.6 / 8.7 [16.1]	11.4 / 12.1 [18.6]	10.8 / 10.7 [18.6]	14.2 / 16.0 [23.1]	13.2 / 13.9 [23.1]	15.1 / 16.1 [27.6]	17.8 / 19.3 [32.9]	20.9 / 23.3 [39.2]
FUSE RATING (BS88) - HRC (A) ¹			1 x 20	1 x 20	1 x 20	1 x 20	1 x 25	1 x 25	1 x 32	1 x 40	
MAINS CABLE No. Cores ¹			4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	4 + earth	
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (T) R410A (GWP 2088)			5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	5.0 / 10.4	6.0 / 12.5	6.0 / 12.5	6.0 / 12.5	6.0 / 12.5	
MAX ADDITIONAL REFRIGERANT (KG) / CO ₂ EQUIVALENT (T) R410A (GWP 2088)			28.0 / 58.5	30.0 / 62.6	31.0 / 64.7	31.0 / 64.7	46.0 / 96.1	46.0 / 96.1	47.0 / 98.1	48.0 / 100.2	

Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.

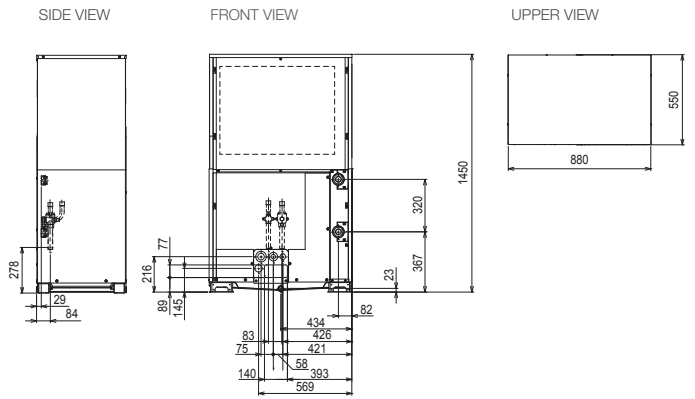
PQRY-P-YLM-A1 units are not compatible with CMB-WM350/500F-AA vertical HBC controllers.

¹ A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

PQRY-P200/250/300YLM-A1 DIMENSIONS



PQRY-P350/400/450/500YLM-A1 DIMENSIONS



Telephone: 01707 282880
email: air.conditioning@meuk.mee.com
les.mitsubishielectric.co.uk



Mitsubishi Electric Living
Environmental Systems UK



Mitsubishi Electric
Cooling and Heating UK



[mitsubishielectricuk_les](https://www.instagram.com/mitsubishielectricuk_les)



Mitsubishi Electric Living
Environmental Systems UK



thehub.mitsubishielectric.co.uk

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881
IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

Country of origin: United Kingdom - Italy - Turkey - Japan - Thailand - Malaysia. ©Mitsubishi Electric Europe 2023. Mitsubishi and Mitsubishi Electric are trademarks of Mitsubishi Electric Europe B.V. The company reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement. Mitsubishi Electric is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. All goods are supplied subject to the Company's General Conditions of Sale, a copy of which is available on request. Third-party product and brand names may be trademarks or registered trademarks of their respective owners.

Note: Refer to 'Installation Manual' and 'Instruction Book' for further 'Technical Information'. The fuse rating is for guidance only and 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 equipment and heat pump systems contain a fluorinated greenhouse gas, R410A (GWP:2088), R32 (GWP:675), R407C (GWP:1774), R134a (GWP:1430), R513A (GWP:631), R454B (GWP:466), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. In case of Regulation (EU) No.626/2011 from IPCC 3rd edition, these are as follows. R410A (GWP:1975), R32 (GWP:550), R407C (GWP:1650) or R134a (GWP:1300).

Effective as of April 2023



greengateway.mitsubishielectric.co.uk