WR2 Series HVRF (22.4-56kW)

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

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 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

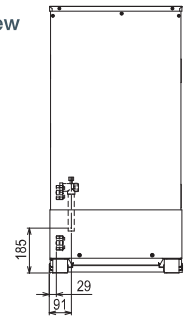
R410A

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 max)	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 max)	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 (m^3/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	-5~45 / -5~45
COP / EER (nominal max)		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	4.82 / 3.84
MAX NO. OF CONNECTABLE INDOOR UNITS		20	25	30	30	35	35	40	45	50
MAX CONNECTABLE CAPACITY		50 ~ 150%	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")	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")	22.2 (7/8")
SOUND PRESSURE LEVEL (dBA)		46	48	54	54	52	52	52	54	54
SOUND POWER LEVEL (dBA)		60	62	68	68	66	66	66	70	70.5
WEIGHT (kg)		173	173	173	173	217	217	217	217	217
DIMENSIONS (mm)	Width	880	880	880	880	880	880	880	880	880
	Depth	550	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	380-415v, 50Hz
PHASE*1		Three	Three	Three	Three	Three	Three	Three	Three	Three
STARTING CURRENT (A)		8	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	1 x 40
MAINS CABLE No. Cores*1		4 + earth	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	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	47.0 / 98.1	48.0 / 100.2

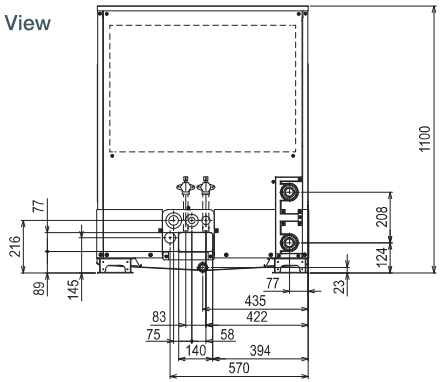
Notes: *SEER/SCOP available separately in the 'City Multi HVRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.
PQRY-P-YLM-A1 units are not compatible with CMB-WM350/500F-AA vertical HBC controllers.
*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

Product Dimensions PQRY-P200/250/300YLM-A1

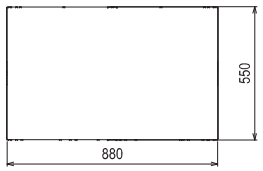
Side View



Front View

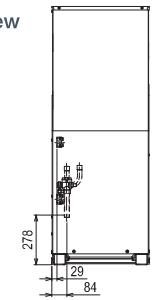


Upper View

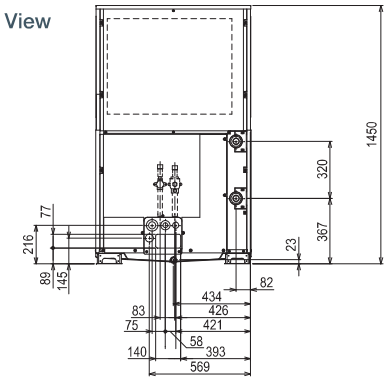
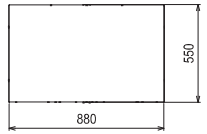


Product Dimensions PQRY-P350/400/450/500YLM-A1

Side View



Front View



Upper View