WR2 Series (8-20hp)

R410A Water Cooled Condensing Unit Simultaneous Heating and Cooling with Double Heat Recovery

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.

- > All the benefits of the R2 Series with water cooled condensing units, using a single inverter compressor
- > High COPs possible thanks to increased efficiency and careful control of the system, allowing the largest operational water circuit temperature band ever
- > Unique 2-pipe refrigerant circuit allows simultaneous heating and cooling plus heat recovery between indoor units as with the R2 system
- > Total building heat recovery made possible by exchanging energy in both refrigerant and water circuits
- > Combining WR2 with waste heat energy provides unique application solutions
- > Up to 24 indoor units can be connected to each condensing unit
- > Condensing units can be situated indoors allowing greater design flexibility and no limitation on building size
- > Single inverter compressor up to 20hp
- > Improved pipe run of 150m with a total system pipe length of up to 400m
- > High Sensible Cooling Function By raising the off coil temperature, a 10% increase in sensible cooling capacity over standard operation is achievable, the result being greater comfort for occupants
- > Now able to operate with closed loop ground source water temperatures, bore hole and slinky applications are now possible



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Technical Information >>

WK2 SERIES HEAT SOURCE UNIT - 6-2011					
MODEL REFERENCE		PQRY-P200YGM-A	PQRY-P250YGM-A	PQRY-P400YSGM-A	PQRY-P500YSGM-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	50.0	63.0
	Cooling (nominal)	22.4	28.0	45.0	56.0
POWER INPUT (kW)	Heating (nominal)	4.69	5.80	11.01	13.60
	Cooling (nominal)	4.79	5.95	11.35	15.06
MAX No. OF CONNECTABLE INDOOR UNITS		15	19	24	24
NOISE (dBA)		46	47	50	53
WEIGHT (kg)		263	266	208 + 232	208 + 236
DIMENSIONS (mm)	Width	990	990	1980	1980
	Depth	550	550	550	550
	Height	1800	1800	1800	1800
ELECTRICAL SUPPLY		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE		3	3	3	3
STARTING CURRENT (A)		8	8	8	8
RUNNING CURRENT (A)	Heating	7.2	8.9	17.0	21.0
	Cooling	7.4	9.1	17.5	23.3
FUSE RATING (BS88) – HRC (A)		20	25	40	50
MAINS CABLE No. Cores		4 + earth	4 + earth	4 + earth	4 + earth

PQRY-P200-500Y(S)GM-A Piping Restrictions

TOTAL PIPING LENGTH	400m max [⊮] ³ (300m)
FURTHEST PIPING LENGTH	150m max
BETWEEN OUTDOOR AND BC CONTROLLER (MASTER) - LENGTH	110m max*4 (70m)
BETWEEN INDOOR AND BC CONTROLLER (MASTER/SLAVE) - LENGTH	60m max*s (40m)
BETWEEN INDOOR AND OUTDOOR - HEIGHT	50m max (40m)*1
BETWEEN INDOOR AND INDOOR - HEIGHT	15m max (10m)*2
BETWEEN INDOOR AND BC CONTROLLER (MASTER/SLAVE) - HEIGHT	I5m max
BETWEEN INDOOR (MASTER) AND INDOOR (SLAVE) - HEIGHT	15m max (10m)*2

*1 When O/U is below indoor *2 In case of P200, P250 indoor unit *3 Distance between outdoor unit and BC Controller is 70m or less *4 Total piping length is 300m or less *5 Height difference between the Master BC Controller and furthest indoor unit is zero





PQRY-P200, 250YGM-A



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