

DTC PROPOSED EXTERNAL COOLING UNITS AT SIXTH FLOOR

R2 Series (8-14hp)

R410A Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

Improved for even higher efficiency

Throughout the year, many buildings require cooling in some areas and heating in others – even in adjacent rooms. The outstanding City Multi R2 system meets this requirement by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings of up to 30% over conventional systems.

- > New higher efficiency inverter technology, with low start currents thanks to a single inverter compressor
- > Up to 20 indoor units connected to each outdoor unit
- > Easy to install unique 2-pipe technology means minimal disruption, quicker installation and less connections than a 3 pipe equivalents
- > Highest ever COP's / EER's utilising energy efficient IPM inverter technology
- > 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

PURY-P300



3 UNITS TO SERVE SIXTH FLOOR

Technical Information >>

R2 SERIES OUTDOOR UNIT - 8-14hp		PURY-P200YGM-A		PURY-P250YGM-A		PURY-P300YGM-A		PURY-P350YGM-A	
MODEL REFERENCE		PURY-P200YGM-A		PURY-P250YGM-A		PURY-P300YGM-A		PURY-P350YGM-A	
CAPACITY (kW)	Heating (nominal)	25.0		31.5		37.5		45.0	
	Cooling (nominal)	22.4		28.0		33.5		40.0	
	Heating (UK)	23.1		29.1		33.0		39.6	
	Cooling (UK)	21.3		26.6		31.5		37.6	
POWER INPUT (kW)	Heating (nominal)	3.98		7.52		9.10		11.02	
	Cooling (nominal)	4.14		7.72		9.57		11.39	
	Heating (UK)	3.98		7.52		8.83		10.69	
	Cooling (UK)	3.81		4.79		6.99		8.31	
MAX No. OF CONNECTABLE INDOOR UNITS		15		16		16		20	
AIRFLOW (m3/min)	High	200		200		200		200	
NOISE (dBA)		56		57		59		60	
WEIGHT (kg)		234		251		251		251	
DIMENSIONS (mm)	Width	990		990		990		990	
	Depth	840 (877)		840 (877)		840 (877)		840 (877)	
	Height	1840		1840		1840		1840	
ELECTRICAL SUPPLY		380-415v, 50Hz		380-415v, 50Hz		380-415v, 50Hz		380-415v, 50Hz	
PHASE		3		3		3		3	
STARTING CURRENT (A)		10		8		8		8	
RUNNING CURRENT (A)	Heating	9.2		11.7		14.0		17.0	
	Cooling	9.4		11.9		14.7		17.6	
FUSE RATING (BS88) – HRC (A)		20		25		25		32	
MAINS CABLE No. Cores		4 + earth		4 + earth		4 + earth		4 + earth	

PURY-P200/250/300/350YGM-A Piping Restrictions	
TOTAL PIPING LENGTH	400m max ^{*2} (300m)
FURTHEST PIPING LENGTH	150m max
BETWEEN OUTDOOR AND BC CONTROLLER - LENGTH	110m max ^{*3} (70m)
BETWEEN INDOOR AND BC CONTROLLER - LENGTH	60m max ^{*4} (40m)
BETWEEN INDOOR AND OUTDOOR UNITS - HEIGHT	50m max (40m if outdoor installed below)
BETWEEN INDOOR AND BC CONTROLLER - HEIGHT	15m max (10m) ^{*1}
BETWEEN INDOOR AND INDOOR UNITS - HEIGHT	15m max (10m) ^{*1}

Note: If more than one BC Controller is required, please refer to piping restrictions on page 110. ² In the 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 BC Controller and furthest indoor unit zero

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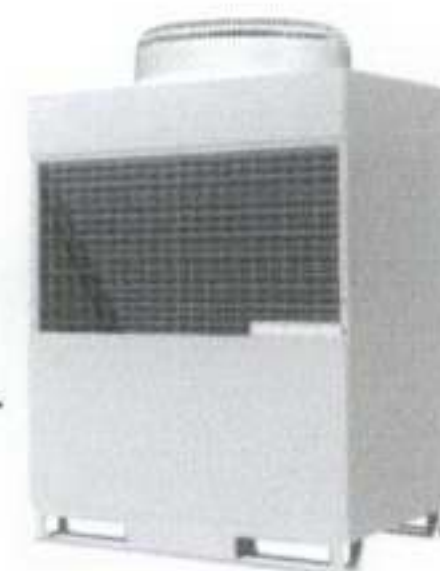
R2 Series (16-26hp)

R410A Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

The larger models in the R2 Series have the advantage of allowing more indoor units to be connected to a single outdoor unit, whilst also benefiting from greater capacity. Heat recovery potential is dramatically increased as the larger quantity of indoor units increases diversity.

- > Up to 32 indoor units connected to each outdoor unit
- > Easy to install unique 2-pipe technology means minimal disruption, quicker installation and less connections than 3 pipe equivalents
- > Highest ever COP's / EER's utilising energy efficient IPM inverter technology
- > Greater than 80kW capacity on a single refrigerant circuit
- > 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

PURY-P400



PURY-P500



1 UNIT SERVING SIXTH FLOOR

2 UNITS SERVING FIFTH FLOOR

Technical Information >>

R2 SERIES OUTDOOR UNIT - 16-26hp		PURY-P400YGM-A		PURY-P500YGM-A		PURY-P650YGM-A	
MODEL REFERENCE		PURY-P400YGM-A		PURY-P500YGM-A		PURY-P650YGM-A	
CAPACITY (kW)	Heating (nominal)	50.0		63.0		81.5	
	Cooling (nominal)	45.0		56.0		73.0	
	Heating (UK)	44.0		55.4		70.7	
	Cooling (UK)	42.3		51.5		67.2	
POWER INPUT (kW)	Heating (nominal)	12.43		15.89		19.82	
	Cooling (nominal)	13.42		15.59		19.65	
	Heating (UK)	12.06		14.62		18.23	
	Cooling (UK)	9.80		10.91		13.76	
MAX No. OF CONNECTABLE INDOOR UNITS		24		24		32	
AIRFLOW (m3/min)		240		400		400	
NOISE (dBA)		61		60		62	
WEIGHT (kg)		291		481		481	
DIMENSIONS (mm)	Width	1290		1990		1990	
	Depth	840 (877)		840 (877)		840 (877)	
	Height	1840		1840		1840	
ELECTRICAL SUPPLY		380-415v, 50Hz		380-415v, 50Hz		380-415v, 50Hz	
PHASE		3		3		3	
STARTING CURRENT (A)		8		8 / 92.5		8 / 92.5	
RUNNING CURRENT (A)	Heating	19.2		24.5		30.6	
	Cooling	20.7		24.0		30.3	
FUSE RATING (BS88) - HRC (A)		40		50		63	
MAINS CABLE No. Cores		4 + earth		4 + earth		4 + earth	

PURY-P200-650YGM-A Piping Restrictions		PURY-P400YGM-A		PURY-P500YGM-A		PURY-P650YGM-A	
TOTAL PIPING LENGTH		A+B+a+b+c+d		A+B+a+b+c+d		400m max ^(*) (300m)	
FURTHEST PIPING LENGTH		A+B+d		A+B+d		150m max	
BETWEEN OUTDOOR AND BC CONTROLLER (MASTER) - LENGTH		A		A		110m max ^(*) (70m)	
BETWEEN INDOOR AND BC CONTROLLER (MASTER/SLAVE) - LENGTH		B+d or b		B+d or b		60m max ^(*) (40m)	
BETWEEN INDOOR AND OUTDOOR - HEIGHT		H		H		50m max (40m) ^(*)	
BETWEEN INDOOR AND INDOOR - HEIGHT		h1		h1		15m max (10m) ^(*)	
BETWEEN INDOOR AND BC CONTROLLER (MASTER/SLAVE) - HEIGHT		h2		h2		15m max	
BETWEEN INDOOR (MASTER) AND INDOOR (SLAVE) - HEIGHT		h3		h3		15m max (10m) ^(*)	

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