

R2 Series VRF Standard Efficiency (50-61.5kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

The City Multi R2 Series VRF Heat Recovery system meets the demand for simultaneous heating and cooling, with the added benefit of heat recovery. As the only 2-pipe heat recovery system on the market, the **PURY-P** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.

Key Features & Benefits

- Heat recovery achieves energy savings of up to 30% over heat pump systems
- Provides simultaneous heating and cooling with a high level of thermal comfort
- Unique 2-pipe system for ease of installation and maintenance
- Adjustable noise level options to suit application



OUTDOOR UNITS		PURY-P450YNW-A2	PURY-P450YSNW-A2	PURY-P500YNW-A2	PURY-P500YSNW-A2	PURY-P550YNW-A2	PURY-P550YSNW-A2
CAPACITY (kW)	Heating (nominal)	56.0	56.5	63.0	63.0	69.0	65.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	60.0	61.5
	High Performance Heating (UK)	50.4	56.5	56.7	63.0	62.1	61.8
	COP Priority Heating (UK)	48.2	51.4	54.2	57.3	59.3	59.2
	Cooling (UK)	44.8	45.1	50.1	50.1	53.7	55.0
POWER INPUT (kW)	Heating (nominal)	18.79	16.71	21.14	19.74	24.55	19.81
	Cooling (nominal)	19.84	17.08	22.22	21.13	25.86	22.69
	High Performance Heating (UK)	21.42	21.39	24.10	25.27	27.99	26.35
	COP Priority Heating (UK)	18.23	16.71	20.51	19.74	23.81	19.81
	Cooling (UK)	12.70	9.91	14.22	12.26	16.55	13.16
COP / EER (nominal)		2.98 / 2.52	3.38 / 2.95	2.98 / 2.52	3.19 / 2.65	2.81 / 2.32	3.28 / 2.71
MAX No. OF CONNECTABLE INDOOR UNITS		45	45	50	50	50	50
MAX CONNECTABLE CAPACITY		50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity	50~150% OU Capacity
AIRFLOW (m³/min)	High	315	170 / 220	295	220 / 220	410	220 / 240
PIPE SIZE mm (in)	Gas	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")	28.58 (1-1/8")
	Liquid	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8")	22.2 (7/8") / 28.58 (1-1/8") ¹	22.2 (7/8") / 28.58 (1-1/8") ¹
SOUND PRESSURE LEVEL (dBA) @ 1m		Heating / Cooling		Heating / Cooling		Heating / Cooling	
		70.0 / 65.5	65.5 / 63.0	64.5 / 63.5	67.0 / 63.5	70.0 / 70.0	69.0 / 64.0
SOUND POWER LEVEL (dBA) @ 100% Capacity		Heating / Cooling		Heating / Cooling		Heating / Cooling	
		89.0 / 83.0	83.8 / 80.1	84.0 / 82.0	86.0 / 81.0	89.0 / 89.0	87.7 / 82.1
SOUND POWER LEVEL (dBA) @ 90% Capacity		Heating / Cooling		Heating / Cooling		Heating / Cooling	
		85.5 / 78.5	81.1 / 75.4	81.0 / 76.5	83.0 / 76.5	86.0 / 83.5	84.1 / 76.2
SOUND POWER LEVEL (dBA) @ 75% Capacity		Heating / Cooling		Heating / Cooling		Heating / Cooling	
		79.5 / 74.0	77.7 / 71.2	77.5 / 73.5	79.5 / 72.5	81.5 / 79.0	80.0 / 73.0
WEIGHT (kg)		289	214 + 223	335	223 + 223	335	223 + 225
DIMENSIONS (mm)		Width		Width		Width	
		1240	920 + 920	1750	920 + 920	1750	920 + 920
		Depth		Depth		Depth	
		740	740	740	740	740	740
(1798mm without legs)		Height		Height		Height	
		1858	1858	1858	1858	1858	1858
ELECTRICAL SUPPLY ²		380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
PHASE ²		Three	Three	Three	Three	Three	Three
STARTING CURRENT (A) ²		8	8	8	8	8	8
NOMINAL SYSTEM RUNNING CURRENT (A) ²		Heating / Cooling [MAX]		Heating / Cooling [MAX]		Heating / Cooling [MAX]	
		30.1 / 31.8 [39.0]	26.7 / 27.3 [16.1 + 21.4]	33.9 / 35.6 [43.2]	31.6 / 33.8 [21.4 + 21.4]	39.3 / 41.4 [51.4]	31.7 / 36.3 [21.4 + 23.4]
GUARANTEED OPERATING RANGE (°C)		Heating / Cooling		Heating / Cooling		Heating / Cooling	
		-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ²		1 x 40	1 x 20 / 1 x 25	1 x 50	1 x 25 / 1 x 25	1 x 63	1 x 25 / 1 x 25
MAINS CABLE No. Cores ²		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)		10.8 / 22.5	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7	10.8 / 22.6	10.4 / 21.7
MAX ADDED REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)		44.5 / 92.9	48.6 / 101.5	45.2 / 94.4	48.6 / 101.5	45.2 / 94.4	48.6 / 101.5

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

¹ If distance from OU to BC controller is greater than 65m. ² A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.