

# R2 Series VRF

High Efficiency (67-95kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

CITY MULTI

Delivering outstanding Seasonal Energy Efficiency, the City Multi R2 Series VRF High Efficiency Heat Recovery system provides simultaneous heating and cooling, with the added benefit of heat recovery.

As the only 2-pipe heat recovery system on the market, the **PURY-EP** range offers huge benefits in terms of ease of installation and maintenance, as well as complete design flexibility.



## Key Features & Benefits:

- High efficiency system delivers outstanding seasonal energy performance
- 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



# Air Conditioning Product Information

## R2 Series VRF

High Efficiency (67-95kW)

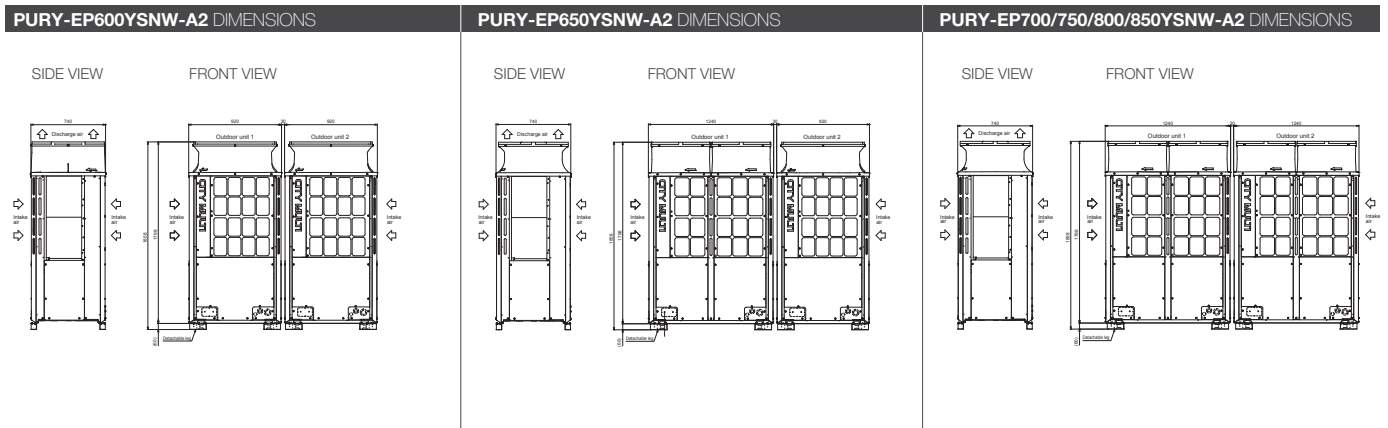
Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit



OUTDOOR UNITS		PURY-EP600YSNW-A2	PURY-EP650YSNW-A2	PURY-EP700YSNW-A2	PURY-EP750YSNW-A2	PURY-EP800YSNW-A2	PURY-EP850YSNW-A2
CAPACITY (kW)	Heating (nominal)	75.0	82.5	90.0	95.0	100.0	106.0
	Cooling (nominal)	67.0	73.5	80.0	85.0	90.0	95.0
	High Performance Heating (UK)	71.3	78.4	85.5	85.5	90.0	95.4
	COP Priority Heating (UK)	68.3	75.1	81.9	81.7	86.0	91.2
	Cooling (UK)	60.0	65.8	71.6	76.1	80.6	85.0
POWER INPUT (kW)	Heating (nominal)	22.45	25.00	27.60	30.54	33.67	35.81
	Cooling (nominal)	23.10	26.15	29.30	33.59	38.62	38.93
	High Performance Heating (UK)	29.86	33.25	36.71	34.51	38.05	47.63
	COP Priority Heating (UK)	22.45	25.00	27.60	29.62	32.66	34.74
	Cooling (UK)	13.40	15.17	16.99	19.48	24.72	24.92
COP / EER (nominal)		3.34 / 2.90	3.30 / 2.81	3.26 / 2.73	3.11 / 2.53	2.97 / 2.33	2.96 / 2.44
MAX NO. OF CONNECTABLE INDOOR UNITS		50	50	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	240 / 240	240 / 250	250 / 250	250 / 315	315 / 315	315 / 315
	Gas	28.58 (1-1/8")	28.58 (1-1/8")	34.93 (1-3/8")	34.93 (1-3/8")	34.93 (1-3/8")	41.28 (1-5/8")
PIPE SIZE mm (in)	Liquid	22.2 (7/8") / 28.58 (1-1/8") <sup>1</sup>	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")
	Heating / Cooling	70.0 / 64.0	69.0 / 65.0	67.0 / 65.5	70.5 / 67.0	72.0 / 68.0	72.5 / 68.5
SOUND POWER LEVEL (dBA) @ 1m	Heating / Cooling	89.0 / 83.0	87.7 / 83.5	86.0 / 84.0	90.2 / 85.1	91.0 / 86.0	91.5 / 86.0
SOUND POWER LEVEL (dBA) @ 100% CAPACITY	Heating / Cooling	85.0 / 77.5	82.7 / 77.9	84.0 / 79.0	85.4 / 79.5	86.5 / 80.0	87.6 / 81.2
SOUND POWER LEVEL (dBA) @ 90% CAPACITY	Heating / Cooling	80.5 / 73.5	80.2 / 75.9	80.0 / 76.0	80.5 / 76.0	81.0 / 76.0	82.0 / 76.5
SOUND POWER LEVEL (dBA) @ 75% CAPACITY	Heating / Cooling	230 + 230	230 + 275	275 + 275	275 + 276	276 + 276	276 + 301
WEIGHT (kg)		920 + 920	920 + 1240	1240 + 1240	1240 + 1240	1240 + 1240	1240 + 1240
DIMENSIONS (mm)	Width	740	740	740	740	740	740
	Depth	1858	1858	1858	1858	1858	1858
(1798mm without legs)	Height	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz	380-415v, 50Hz
ELECTRICAL SUPPLY <sup>2</sup>		Three	Three	Three	Three	Three	Three
PHASE <sup>2</sup>		8	8	8	8	8	8
STARTING CURRENT (A) <sup>2</sup>		36.0 / 37.0 [22.3 + 22.3]	40.0 / 41.9 [22.3 + 24.8]	44.2 / 46.9 [24.8 + 24.8]	48.9 / 53.8 [24.8 + 33.3]	53.9 / 61.9 [33.3 + 33.3]	57.4 / 62.4 [33.3 + 37.3]
NOMINAL SYSTEM RUNNING CURRENT (A) <sup>2</sup>	Heating / Cooling [MAX]	-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
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	1 x 25 / 1 x 25	1 x 25 / 1 x 25	1 x 25 / 1 x 25	1 x 25 / 1 x 40	1 x 40 / 1 x 40	1 x 40 / 1 x 40
FUSE RATING (MCB sizes BS EN 60947-2) - (A) <sup>2</sup>		4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth	4 + earth / 4 + earth
MAINS CABLE No. Cores <sup>2</sup>		10.4 / 21.7	13.2 / 27.6	16 / 33.4	16 / 33.4	16 / 33.4	18.8 / 39.3
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (T) R410A (GWP 2088)		48.6 / 101.5	45.8 / 95.6	70 / 146.2	70.5 / 147.2	70 / 146.2	67.2 / 140.3
MAX ADDITIONAL REFRIGERANT (KG) / CO <sub>2</sub> EQUIVALENT (T) R410A (GWP 2088)							

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

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



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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:468), 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

