

# R2 Series VRF

High Efficiency (22.4-45kW)

Simultaneous Heating and Cooling with Heat Recovery Outdoor Unit

CITY MULTI

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 these requirements by distributing surplus heat from cooling operations (and vice versa) to rooms where it is needed. This efficiency can result in energy savings up to 30% over conventional systems.

## Key Features & Benefits:

- Highest specification, highest efficiency heat recovery system available
- Delivers the highest levels of comfort, both thermally and acoustically
- Flexible design, installation and maintenance



# Air Conditioning Product Information

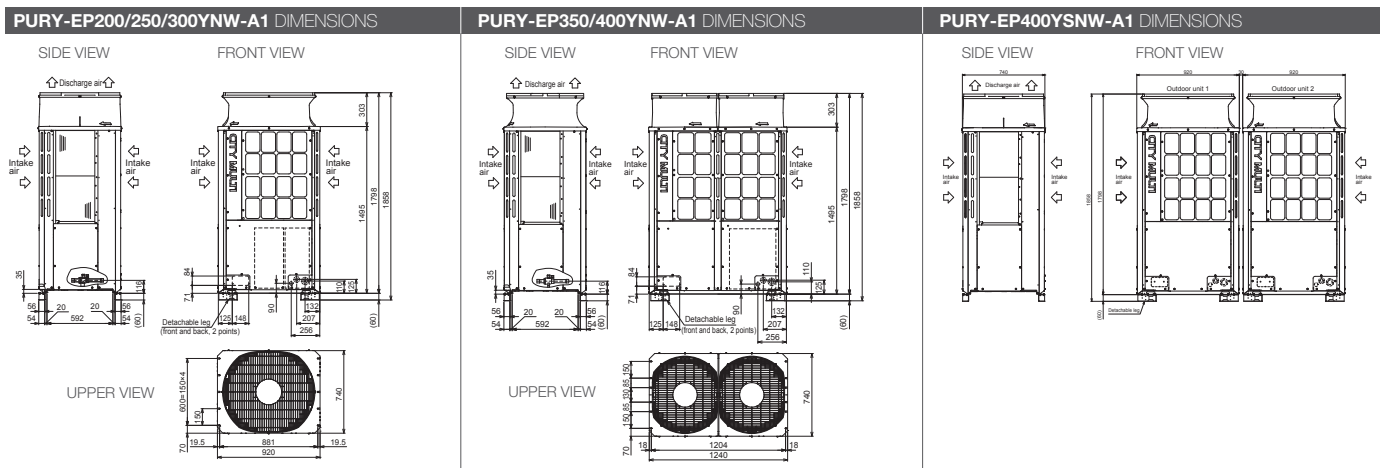
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OUTDOOR UNITS		PURY-EP200YNW-A1	PURY-EP250YNW-A1	PURY-EP300YNW-A1	PURY-EP350YNW-A1	PURY-EP400YNW-A1	PURY-EP400YSNW-A1	
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0	
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0	
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0	50.0	
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0	45.5	
	Cooling (UK)	20.1	25.1	30.0	35.8	40.3	40.3	
POWER INPUT (kW)	Heating (nominal)	5.25	7.37	9.51	11.08	13.58	10.82	
	Cooling (nominal)	4.74	6.89	8.17	9.97	13.04	9.82	
	High Performance Heating (UK)	6.62	9.29	12.65	14.74	15.35	13.85	
	COP Priority Heating (UK)	5.25	7.37	9.51	11.08	13.17	10.82	
	Cooling (UK)	2.75	4.00	4.74	5.78	8.35	5.70	
COP / EER (nominal)		4.76 / 4.72	4.27 / 4.06	3.94 / 4.10	4.06 / 4.01	3.68 / 3.45	4.62 / 4.58	
MAX NO. OF CONNECTABLE INDOOR UNITS		20	25	30	35	40	40	
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	170	185	240	250	315	170 / 170	
PIPE SIZE mm (in)	Gas	19.05 (3/4")	22.2 (7/8")	22.2 (7/8")	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")	
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling	59.0 / 59.0	61.0 / 60.5	67.0 / 61.0	64.0 / 62.5	69.0 / 65.0	62.0 / 62.0	
SOUND POWER LEVEL (dBA) @ 100% CAPACITY	Heating / Cooling	78.0 / 76.0	80.0 / 78.0	86.0 / 80.0	83.0 / 81.0	88.0 / 83.0	81.0 / 79.0	
SOUND POWER LEVEL (dBA) @ 90% CAPACITY	Heating / Cooling	74.5 / 71.0	76.0 / 73.5	78.5 / 74.5	81.0 / 76.0	81.0 / 77.0	77.5 / 74.0	
SOUND POWER LEVEL (dBA) @ 75% CAPACITY	Heating / Cooling	71.5 / 66.5	74.5 / 69.5	74.5 / 70.5	77.0 / 73.0	75.0 / 73.0	74.5 / 69.5	
WEIGHT (kg)		219	228	230	275	276	219 + 219	
DIMENSIONS (mm)	Width	920	920	920	1240	1240	920 + 920	
	Depth	740	740	740	740	740	740	
	Height	1858	1858	1858	1858	1858	1858	
(1798mm without legs)								
ELECTRICAL SUPPLY*1		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	
STARTING CURRENT (A)*1		8	8	8	8	8	8 / 8	
NOMINAL SYSTEM RUNNING CURRENT (A)*1		Heating / Cooling [MAX]	8.4 / 7.6 [16.1]	11.8 / 11.0 [17.0]	15.2 / 13.1 [20.3]	17.7 / 15.9 [24.4]	21.7 / 20.9 [30.7]	17.3 / 15.7 [16.1 + 16.1]
GUARANTEED OPERATING RANGE (°C)		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	
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1			1 x 20	1 x 20	1 x 25	1 x 25	1 x 20 / 1 x 20	
MAINS CABLE No. Cores*1			4 + earth	4 + earth	4 + earth	4 + earth	4 + earth / 4 + earth	
CHARGE REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (T) R410A (GWP 2088)			5.2 / 10.9	5.2 / 10.9	5.2 / 10.9	8 / 16.7	8 / 16.7	
MAX ADDITIONAL REFRIGERANT (kg) / CO <sub>2</sub> EQUIVALENT (T) R410A (GWP 2088)			28.3 / 59.1	34.3 / 71.6	34.3 / 71.6	39 / 81.4	39 / 81.4	

Notes: \*SEER/SCOP available separately in the 'City Multi VRF Seasonal Efficiency' document. Based on Ecodesign Lot 21/6 to EN14825 standard.  
\*1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.



Telephone: 01707 282880  
email: [air.conditioning@meuk.mee.com](mailto:air.conditioning@meuk.mee.com)  
[les.mitsubishielectric.co.uk](http://les.mitsubishielectric.co.uk)



UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880 Fax: 01707 278881  
IRELAND Mitsubishi Electric Europe, Westgate Business Park, Ballymount, Dublin 24, Ireland. Telephone: (01) 419 8800 Fax: (01) 419 8890 International code: (003531)

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Note: The fuse rating is for guidance only. 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:466), 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 May 2020

