

Air Conditioning

Product Information

R2 Series Standard (22-45kW)

Simultaneous Heating and Cooling
with Heat Recovery Outdoor Unit

Making a
World of
Difference

CITY MULTI

NEXT
GENERATION VRF



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

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



Cooling | Heating | Ventilation | Controls

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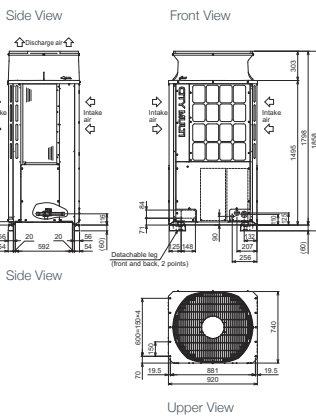


OUTDOOR UNITS		PURY-P200YNW-A	PURY-P250YNW-A	PURY-P300YNW-A	PURY-P350YNW-A	PURY-P400YNW-A	PURY-P400YSNW-A
CAPACITY (kW)	Heating (nominal)	25.0	31.5	37.5	45.0	50.0	50.0
	Cooling (nominal)	22.4	28.0	33.5	40.0	45.0	45.0
	High Performance Heating (UK)	25.0	31.5	35.6	42.8	45.0	50.0
	COP Priority Heating (UK)	22.8	28.7	34.1	41.0	43.0	45.5
	Cooling (UK)	21.4	26.7	32.0	38.2	42.5	42.9
POWER INPUT (kW)	Heating (nominal)	4.71	6.06	8.38	10.68	13.65	9.72
	Cooling (nominal)	4.43	5.97	7.54	10.04	11.59	9.17
	High Performance Heating (UK)	5.93	7.64	11.15	14.20	15.42	12.44
	COP Priority Heating (UK)	4.71	6.06	8.38	10.68	13.24	9.72
	Cooling (UK)	2.57	3.46	4.37	5.82	7.42	5.32
COP / EER (nominal)		5.30 / 5.05	5.19 / 4.69	4.47 / 4.44	4.21 / 3.98	3.86 / 3.88	5.14 / 4.90
SCOP / SEER (system)		4.43 / 7.79	4.37 / 7.98	4.24 / 7.50	3.96 / 7.53	3.76 / 7.15	- / -
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
	Low	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)		59.0	61.0	67.0	64.0	69.0	62.0
SOUND POWER LEVEL (dBA)		78.0	80.0	86.5	83.0	88.0	81.0
WEIGHT (kg)		229	229	231	273	273	229 + 229
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
NOMINAL SYSTEM RUNNING CURRENT (A)*1 Heating / Cooling [MAX]		7.2 / 6.8 [16.1]	9.3 / 9.2 [17.8]	12.9 / 11.6 [22.7]	16.5 / 15.5 [27.6]	21.0 / 17.9 [35.1]	15.0 / 14.1 [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	-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 32	1 x 40	1 x 20 / 1 x 20
MAINS CABLE No. Cores*1		4	4	4	4	4	4 / 4
CHARGE REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)		5.2 / 10.9	5.2 / 10.9	5.2 / 10.9	8 / 16.7	8 / 16.7	10.4 / 21.7
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)		31.8 / 66.4	37.8 / 78.9	37.8 / 78.9	41.3 / 86.2	47.3 / 98.8	60.6 / 126.5

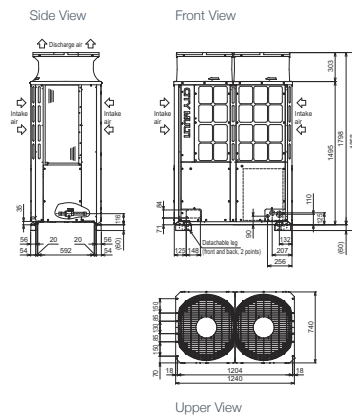
Note: ErP Lot 6 calculation method to EN14825. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

PRODUCT DIMENSIONS

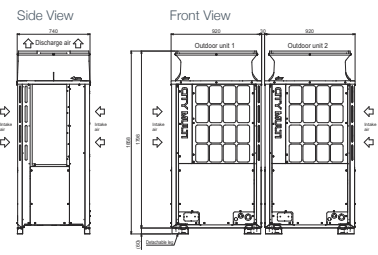
PURY-P200/250/300YNW-A



PURY-P350/400YNW-A



PURY-P400YSNW-A



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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) or R134a (GWP:1430). *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).



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Effective as of November 2017

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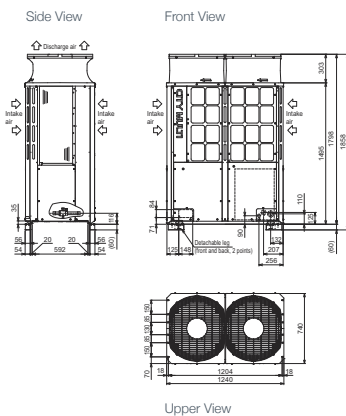


OUTDOOR UNITS		PURY-P450YNW-A	PURY-P450YSNW-A	PURY-P500YNW-A	PURY-P500YSNW-A	PURY-P550YNW-A	PURY-P550YSNW-A
CAPACITY (kW)	Heating (nominal)	56.0	56.0	63.0	63.0	69.0	69.0
	Cooling (nominal)	50.0	50.0	56.0	56.0	63.0	63.0
	High Performance Heating (UK)	50.4	56.0	56.7	63.0	62.1	65.6
	COP Priority Heating (UK)	48.2	51.0	54.2	57.3	59.3	62.8
	Cooling (UK)	47.2	47.7	52.8	53.4	59.4	60.1
POWER INPUT (kW)	Heating (nominal)	13.48	10.99	15.28	12.51	17.91	14.47
	Cooling (nominal)	12.37	10.59	12.72	12.29	16.03	14.45
	High Performance Heating (UK)	15.23	14.07	17.27	16.01	20.24	19.25
	COP Priority Heating (UK)	13.08	10.99	14.82	12.51	17.37	14.47
	Cooling (UK)	7.92	6.14	8.14	7.13	10.26	8.38
COP / EER (nominal)		4.15 / 4.04	5.09 / 4.90	4.12 / 4.40	5.03 / 4.55	3.85 / 3.93	4.69 / 4.35
SCOP / SEER		3.66 / 7.28	- / -	3.67 / 7.00	- / -	3.53 / 6.70	- / -
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 / 185	295	185 / 185	410	185 / 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)	Heating	70.0	63.5	64.5	64.0	70.0	68.0
	Cooling	89.0	82.5	84.0	83.0	89.0	87.5
WEIGHT (kg)		293	229 + 229	337	229 + 229	337	229 + 231
DIMENSIONS (mm)	Width	1240	920 + 920	1750	920 + 920	1750	920 + 920
	Depth	740	740	740	740	740	740
	Height	1858	1858	1858	1858	1858	1858
(1798mm without legs)							
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]		20.8 / 19.1 [37.1]	16.9 / 16.3 [16.1 + 17.8]	23.6 / 19.6 [43.2]	19.3 / 18.9 [17.8 + 17.8]	27.6 / 24.7 [47.5]	22.7 / 22.3 [17.8 + 22.7]
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	-20~-15.5 / -5~-52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*2		1 x 40	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 20	1 x 50	1 x 20 / 1 x 25
MAINS CABLE No. Cores*2		4	4 / 4	4	4 / 4	4	4 / 4
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 ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R410A (GWP 2088)		44.5 / 92.9	60.6 / 126.5	45.2 / 94.4	60.6 / 126.5	45.2 / 94.4	60.6 / 126.5

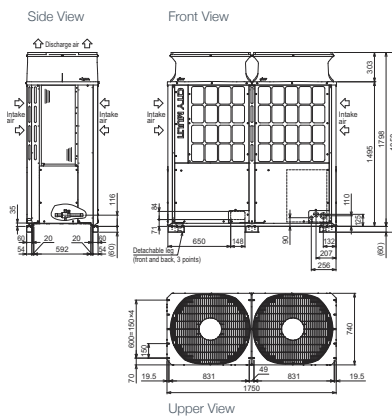
Note: ErP Lot 6 calculation method to EN14825. *1 If distance from OU to BC controller is greater than 65m. *2 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

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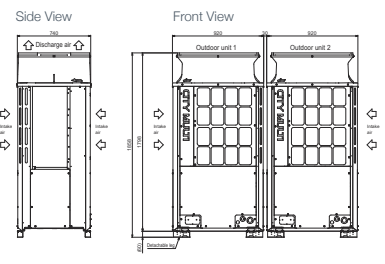
PURY-P450YNW-A



PURY-P500/550YNW-A



PURY-P450/500/550YSNW-A



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Effective as of November 2017