Air Conditioning | Product Information

R2 Series Standard Efficiency Heat Recovery (73.5-100kW)

Many buildings require heating and cooling simultaneously, even between adjacent rooms. The **City Multi R2 Series Heat Recovery system** efficiently redistributes surplus heat where it's needed, delivering up to 30% energy savings over conventional systems.

As the only 2-pipe heat recovery solution on the market, the modular City Multi R2 Series simplifies installation and maintenance while offering complete design flexibility for applications such as hotels, offices, and leisure spaces.

R32

Key Features & Benefits:

- **Heat Recovery Operation** - Delivers up to 30% energy savings compared to heat pump systems through advanced heat recovery
- **Lower GWP R32 Refrigerant** - for reduced carbon impact and future-ready legislation compliance
- **Simultaneous Heating & Cooling** - Meets diverse comfort needs across different zones at the same time for optimal occupant satisfaction
- **Unique 2-Pipe System** - Simplifies installation and maintenance while reducing system complexity
- **Ultra-Compact Modular Design** - Smaller unit footprint allows installation in tight spaces without compromising on performance
- **Broad Indoor Unit Compatibility** - Connects to a wide range of unit types and capacities, making it suitable for varied building applications
- **Extended Heating Range (-25°C)** - Ensures reliable heating even in severe winter conditions by maintaining efficient system operation
- **Easy-to-Maintain Safety Feature Options** - For reduced onsite time and costs while supporting occupant peace of mind
- **Enhanced Defrost Technology** - Reduces system downtime during defrost cycles, minimising temperature fluctuations and maintaining reliable indoor heating for consistent occupant comfort
- **Low Noise Operation** - Features a 5-step low noise mode that minimises sound levels for quieter surroundings
- **113m Vertical Height Separation** - Offers generous height allowance between indoor and outdoor units, enabling design flexibility in larger buildings

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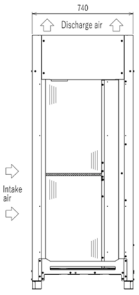
R32

PURY-M-Y(S)XM-A OUTDOOR UNITS		PURY-M650YSXM-A	PURY-M700YSXM-A	PURY-M750YSXM-A	PURY-M800YSXM-A	PURY-M850YSXM-A	PURY-M900YSXM-A
CAPACITY (kW)	Heating (nominal max)	82.5	90.0	95.0	100.0	106.0	112.0
	Cooling (nominal)	73.5	80.0	85.0	90.0	95.0	100.0
	High Performance Heating (UK)	82.5	90.0	95.0	100.0	98.6	104.2
	COP Priority Heating (UK)	78.4	85.5	90.3	95.0	93.3	98.6
	Cooling (UK)	65.8	71.6	76.1	80.1	84.6	89.0
POWER INPUT (kW)	Heating (nominal max)	22.85	26.08	27.53	28.98	31.64	34.46
	Cooling (nominal)	21.87	23.80	25.67	27.60	29.59	31.94
	High Performance Heating (UK)	30.85	35.21	38.27	40.28	37.65	40.32
	COP Priority Heating (UK)	28.11	32.08	33.86	35.65	33.38	36.36
	Cooling (UK)	19.90	21.66	23.36	25.12	26.93	29.07
COP / EER (nominal max)		3.61 / 3.36	3.45 / 3.36	3.45 / 3.31	3.45 / 3.26	3.35 / 3.21	3.25 / 3.13
SCOP / SEER		4.68 / 7.60	4.71 / 7.78	4.63 / 7.59	4.56 / 7.40	4.50 / 7.36	4.45 / 7.30
MAX NO. OF CONNECTABLE INDOOR UNITS		47	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 (m^3/min)	High	220 / 235	220 / 220	260 / 220	260 / 260	300 / 260	300 / 300
PIPE SIZE mm (in)	Gas	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")	41.28 (1-5/8")
	Liquid	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")
SOUND PRESSURE LEVEL (dBA) @ 1m	Heating / Cooling	67.0 / 63.0	67.0 / 61.0	67.0 / 63.0	68.0 / 65.0	70.0 / 66.0	72.0 / 67.0
SOUND POWER LEVEL (dBA) @ 100% Capacity	Heating / Cooling	86.0 / 83.0	86.0 / 82.0	88.0 / 84.0	90.0 / 86.0	91.0 / 86.0	93.0 / 87.0
SOUND POWER LEVEL (dBA) @ 90% Capacity	Heating / Cooling	85.5 / 81.0	86.0 / 81.0	88.4 / 81.0	90.0 / 81.0	91.1 / 78.5	92.0 / 82.0
SOUND POWER LEVEL (dBA) @ 75% Capacity	Heating / Cooling	83.0 / 77.4	83.0 / 79.0	84.1 / 79.5	85.0 / 80.0	86.1 / 78.5	87.0 / 79.0
WEIGHT (kg)		322 + 266	322 + 322	327 + 322	327 + 327	327 + 327	327 + 327
DIMENSIONS (mm)	Width	910 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207	1207 + 1207
	Depth	740	740	740	740	740	740
(1798mm without legs)	Height	1858	1858	1858	1858	1858	1858
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]	36.6 / 35.0 [26.5 + 27.3]	41.8 / 38.1 [27.3 + 27.3]	44.1 / 41.1 [27.3 + 30.4]	46.4 / 44.2 [30.4 + 30.4]	50.7 / 47.4 [30.4 + 30.4]	55.2 / 51.2 [30.4 + 30.4]
GUARANTEED OPERATING RANGE (°C)	Heating / Cooling	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52	-25~15.5 / -5~52
FUSE RATING (MCB sizes BS EN 60947-2) - (A)*1		1 x 32 / 1 x 32	1 x 32 / 1 x 32	1 x 32 / 1 x 40	1 x 40 / 1 x 40	1 x 40 / 1 x 40	1 x 40 / 1 x 40
MAINS CABLE No. Cores*1		4 + earth / 4 + earth	4 + earth / 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) R32 (GWP 675)		17.3 / 11.7	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6	18.6 / 12.6
MAX ADDITIONAL REFRIGERANT (kg) / CO_2 EQUIVALENT (t) R32 (GWP 675)		45.3 / 30.6	44.2 / 29.8	44.2 / 29.8	45.3 / 30.6	45.4 / 30.6	45.9 / 31.0

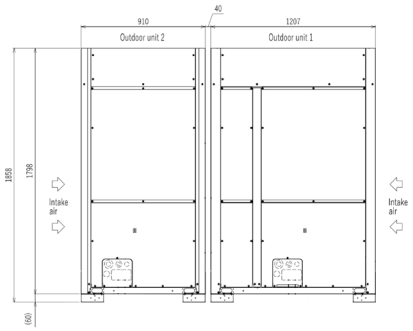
Notes: ErP Lot 6 calculation method to EN14825. *1 A separate power supply is required for each module. Where more than one figure is quoted there are multiple modules.

PURY-M650YSXM-A DIMENSIONS

SIDE VIEW

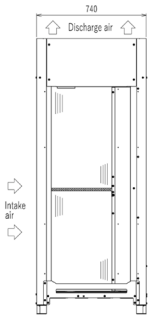


FRONT VIEW

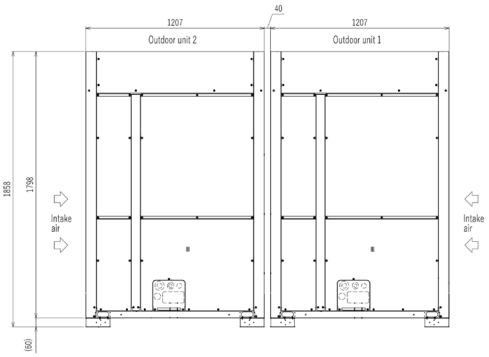


PURY-M700/750/800/850/900YSXM-A DIMENSIONS

SIDE VIEW



FRONT VIEW



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Note: 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:466), R515B (GWP:292), R454C (GWP:148), R1234ze (GWP:7) or R1234yf (GWP:4). *These GWP values are based on Regulation (EU) No 517/2014 from IPCC 4th edition. Mitsubishi Electric's air conditioning equipment and heat pump systems contain a hydrocarbon, R290 (GWP:0.02). *These GWP values are based on IPCC 6th edition.

Effective as of March 2026

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