

R2 Series Standard Efficiency Heat Recovery (50-67kW)



Many buildings require heating and cooling simultaneously, even between adjacent rooms. The **City Multi R2 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 range simplifies installation and maintenance while offering complete design flexibility for applications such as hotels, offices, and leisure spaces.



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

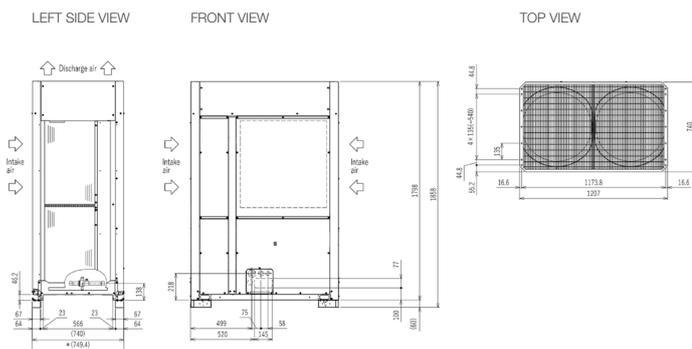




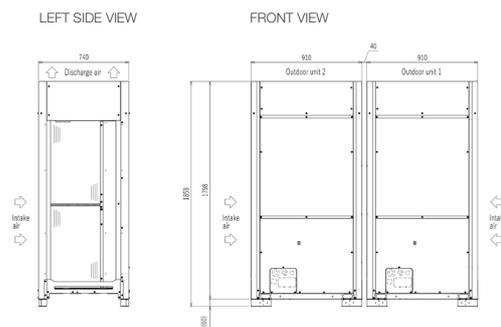
PURY-M-Y(S)XM-A OUTDOOR UNITS		PURY-M450YXM-A	PURY-M450YSXM-A	PURY-M500YXM-A	PURY-M500YSXM-A	PURY-M550YSXM-A	PURY-M600YSXM-A
CAPACITY (kW)	Heating (Max)	56.0	56.5	58.0	63.0	69.0	75.0
	Cooling (nominal)	50.0	50.4	56.0	56.0	61.5	67.0
	High Performance Heating (UK)	TBC	TBC	TBC	TBC	TBC	TBC
	COP Priority Heating (UK)	TBC	TBC	TBC	TBC	TBC	TBC
	Cooling (UK)	TBC	TBC	TBC	TBC	TBC	TBC
POWER INPUT (kW)	Heating (Max)	16.66	13.78	17.41	16.11	17.92	19.84
	Cooling (nominal)	15.47	13.44	19.71	16.00	17.67	19.36
	High Performance Heating (UK)	TBC	TBC	TBC	TBC	TBC	TBC
	COP Priority Heating (UK)	TBC	TBC	TBC	TBC	TBC	TBC
	Cooling (UK)	TBC	TBC	TBC	TBC	TBC	TBC
COP / EER (Max/Nominal)		3.36 / 3.23	4.10 / 3.75	3.33 / 2.84	3.91 / 3.50	3.85 / 3.48	3.78 / 3.46
SCOP / SEER		4.45 / 7.43	4.67 / 7.47	4.35 / 7.00	4.66 / 7.39	4.66 / 7.40	4.66 / 7.54
MAX NO. OF CONNECTABLE INDOOR UNITS		33	33	36	36	40	44
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	300	180 / 170	305	180 / 180	235 / 180	235 / 235
	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")
PIPE SIZE mm (in)	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
	Heating / Cooling	68.0 / 63.0	61.0 / 60.0	69.5 / 67.5	62.0 / 60.0	65.0 / 62.0	67.0 / 64.0
SOUND POWER LEVEL (dBa) @ 100% Capacity	Heating / Cooling	89.0 / 83.0	82.0 / 80.0	91.0 / 87.0	83.0 / 82.0	85.0 / 83.0	87.0 / 84.0
SOUND POWER LEVEL (dBa) @ 90% Capacity	Heating / Cooling	TBC	TBC	TBC	TBC	TBC	TBC
SOUND POWER LEVEL (dBa) @ 75% Capacity	Heating / Cooling	TBC	TBC	TBC	TBC	TBC	TBC
WEIGHT (kg)		327	265 + 265	327	265 + 265	266 + 265	266 + 266
	Width	1207	910 + 910	1207	910 + 910	910 + 910	910 + 910
DIMENSIONS (mm)	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		TBC	TBC	TBC	TBC	TBC	TBC
NOMINAL SYSTEM RUNNING CURRENT (A) ²		Heating / Cooling [MAX]	26.7 / 24.8 [TBC]	22.0 / 21.5 [TBC]	27.9 / 31.6 [TBC]	25.8 / 25.6 [TBC]	28.7 / 28.3 [TBC]
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
FUSE RATING (MCB sizes BS EN 60947-2) - (A) ²		TBC	TBC	TBC	TBC	TBC	TBC
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) R32 (GWP 678)		9.3 / 6.3	16.0 / 10.8	9.3 / 6.3	16.0 / 10.8	16.0 / 10.8	16.0 / 10.8
MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (t) R32 (GWP 678)		TBC	TBC	TBC	TBC	TBC	TBC

Notes: 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.

PURY-M450/500YXM-A DIMENSIONS



PURY-M450/500/600YSXM-A DIMENSIONS



Telephone: +353 1 419 8800
 email: sales.info@meir.mee.com
 les.mitsubishielectric.ie



IRELAND Mitsubishi Electric Europe, Plunkett House, Grange Castle Business Park, Nangor Road, Dublin 22, D22 YRK4 Ireland. Telephone: (00353) 1 4198800 Email: sales.info@meir.mee.com
 Web: les.mitsubishielectric.ie

UNITED KINGDOM Mitsubishi Electric Europe Living Environment Systems Division, Travellers Lane, Hatfield, Hertfordshire, AL10 8XB, England. Telephone: 01707 282880

Country of origin: United Kingdom - Italy - Turkey - Japan - Thailand - Malaysia. ©Mitsubishi Electric Europe 2025. Mitsubishi and Mitsubishi Electric are trademarks of Mitsubishi Electric Europe B.V. The company reserves the right to make any variation in technical specification to the equipment described, or to withdraw or replace products without prior notification or public announcement. Mitsubishi Electric is constantly developing and improving its products. All descriptions, illustrations, drawings and specifications in this publication present only general particulars and shall not form part of any contract. All goods are supplied subject to the Company's General Conditions of Sale, a copy of which is available on request. Third-party product and brand names may be trademarks or registered trademarks of their respective owners.

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 February 2025

