

R2 Series VRF

High Efficiency (69-96kW)

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

R2 Series VRF

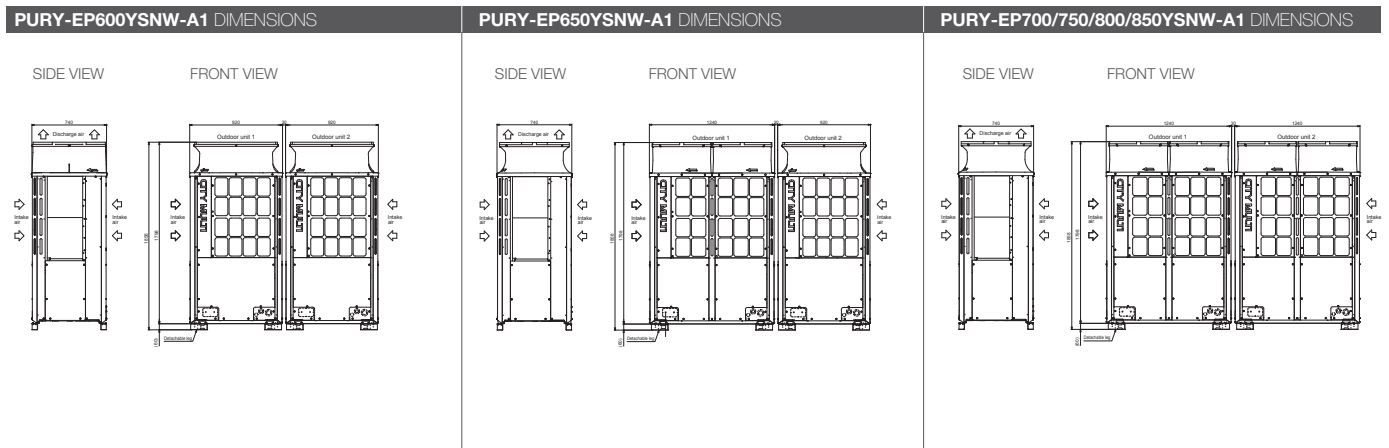
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| OUTDOOR UNITS | | PURY-EP600YSNW-A1 | PURY-EP650YSNW-A1 | PURY-EP700YSNW-A1 | PURY-EP750YSNW-A1 | PURY-EP800YSNW-A1 | PURY-EP850YSNW-A1 | |
|---|-------------------------------|--|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|---------------------------|
| CAPACITY (kW) | Heating (nominal) | 76.5 | 81.5 | 88.0 | 95.0 | 100.0 | 108.0 | |
| | Cooling (nominal) | 69.0 | 73.0 | 80.0 | 85.0 | 90.0 | 96.0 | |
| | High Performance Heating (UK) | 72.7 | 77.4 | 83.6 | 85.5 | 90.0 | 97.2 | |
| | COP Priority Heating (UK) | 69.6 | 74.2 | 80.1 | 81.7 | 86.0 | 92.9 | |
| | Cooling (UK) | 61.8 | 65.3 | 71.6 | 76.1 | 80.6 | 85.9 | |
| POWER INPUT (kW) | Heating (nominal) | 20.02 | 21.00 | 22.33 | 25.33 | 28.01 | 29.67 | |
| | Cooling (nominal) | 17.33 | 18.57 | 20.56 | 23.48 | 26.86 | 28.07 | |
| | High Performance Heating (UK) | 26.63 | 27.93 | 29.70 | 28.62 | 31.65 | 33.53 | |
| | COP Priority Heating (UK) | 20.02 | 21.00 | 22.33 | 24.57 | 27.17 | 28.78 | |
| | Cooling (UK) | 10.05 | 10.77 | 11.92 | 13.62 | 17.19 | 17.96 | |
| COP / EER (nominal) | 3.82 / 3.98 | 3.88 / 3.93 | 3.94 / 3.89 | 3.75 / 3.62 | 3.57 / 3.35 | 3.64 / 3.42 | | |
| 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 | |
| PIPE SIZE mm (in) | 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") | |
| | Liquid | 22.2 (7/8") / 28.58 (1-1/8") ^{*1} | 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 | 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) @ 100% CAPACITY | Heating / Cooling | 89.0 / 83.0 | 88.0 / 84.0 | 86.0 / 84.0 | 90.0 / 86.0 | 91.0 / 86.0 | 92.0 / 86.0 | |
| SOUND POWER LEVEL (dBA) @ 90% CAPACITY | Heating / Cooling | 81.5 / 77.5 | 83.0 / 78.5 | 84.0 / 79.0 | 83.5 / 79.5 | 83.0 / 80.0 | 85.0 / 81.0 | |
| SOUND POWER LEVEL (dBA) @ 75% CAPACITY | Heating / Cooling | 77.5 / 73.5 | 79.0 / 75.0 | 80.0 / 76.0 | 79.5 / 76.0 | 78.0 / 76.0 | 79.0 / 76.5 | |
| WEIGHT (kg) | | 230 + 230 | 230 + 275 | 275 + 275 | 275 + 275 | 276 + 276 | 276 + 301 | |
| DIMENSIONS (mm) | Width | 920 + 920 | 920 + 1240 | 1240 + 1240 | 1240 + 1240 | 1240 + 1240 | 1240 + 1240 | |
| | 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] | 32.1 / 27.7 [20.3 + 20.3] | 33.6 / 29.7 [20.3 + 24.4] | 35.8 / 32.9 [24.4 + 24.4] | 40.6 / 37.6 [24.4 + 30.7] | 44.9 / 43.0 [30.7 + 30.7] | 47.5 / 45.0 [30.7 + 34.6] |
| 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) ^{*2} | | | 1 x 25 / 1 x 25 | 1 x 25 / 1 x 25 | 1 x 25 / 1 x 25 | 1 x 32 / 1 x 32 | 1 x 32 / 1 x 40 | |
| MAINS CABLE No. Cores ^{*2} | | | 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) R410A (GWP 2088) | | | 10.4 / 21.7 | 13.2 / 27.6 | 16 / 33.4 | 16 / 33.4 | 18.8 / 39.3 | |
| MAX ADDITIONAL REFRIGERANT (kg) / CO ₂ EQUIVALENT (T) R410A (GWP 2088) | | | 53.6 / 111.9 | 59.8 / 124.9 | 78 / 162.9 | 80.5 / 168.1 | 83 / 173.3 | |

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

