# Digital Inverter Heat Pump Systems, Ceiling Units

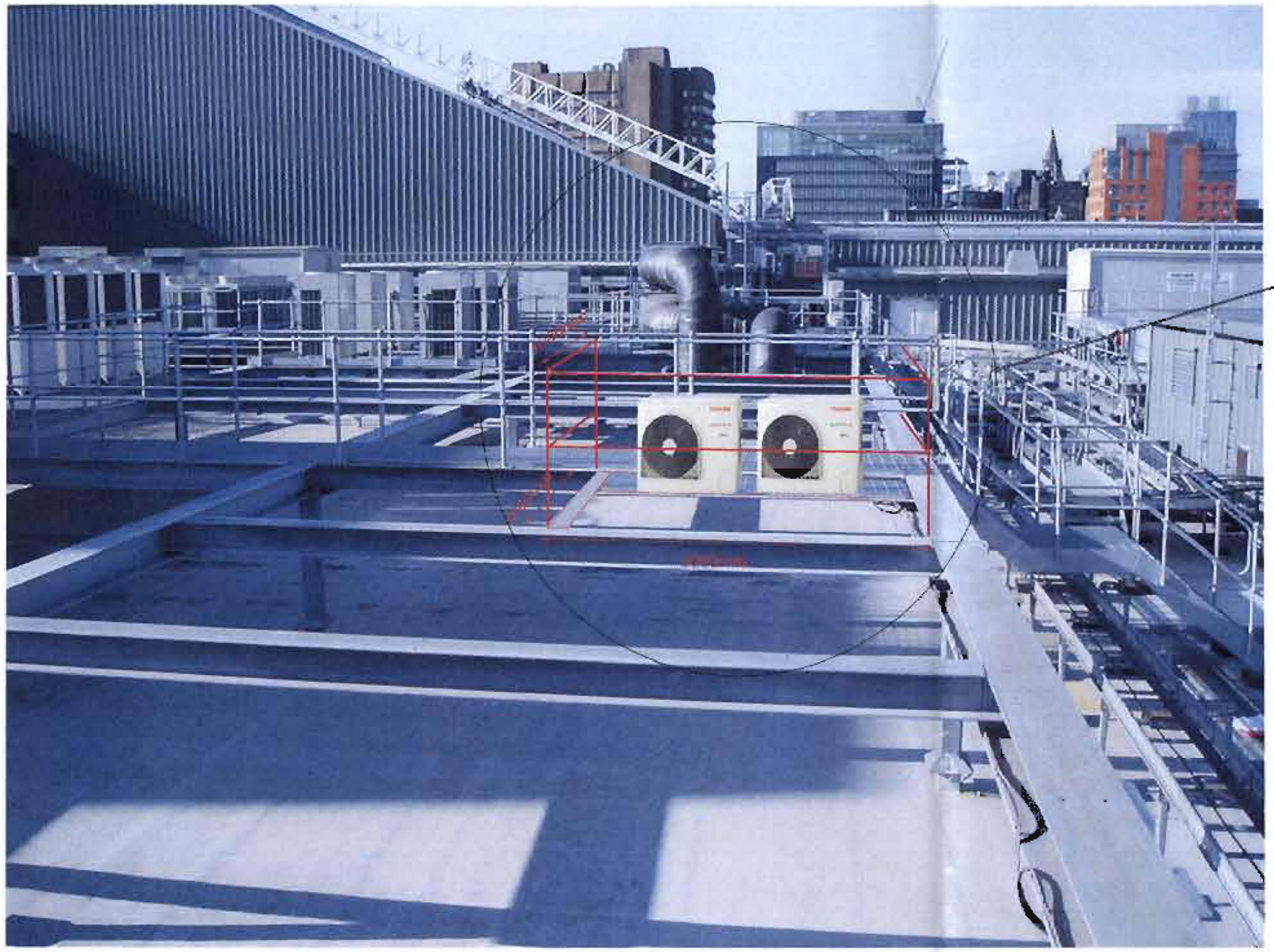
- Elegant design with clean lines
- Easy installation and maintenance
- High-performance operation, using digital inverter control system
- Ideal for offices, classrooms and restaurants
- Automatic louvre control for cooling and heating modes plus auto-swing
- Ultra-quiet operation
- Mould-proof, fully recyclable drain pan
- Designed for use with refrigerant R410A
- Twin-split also available

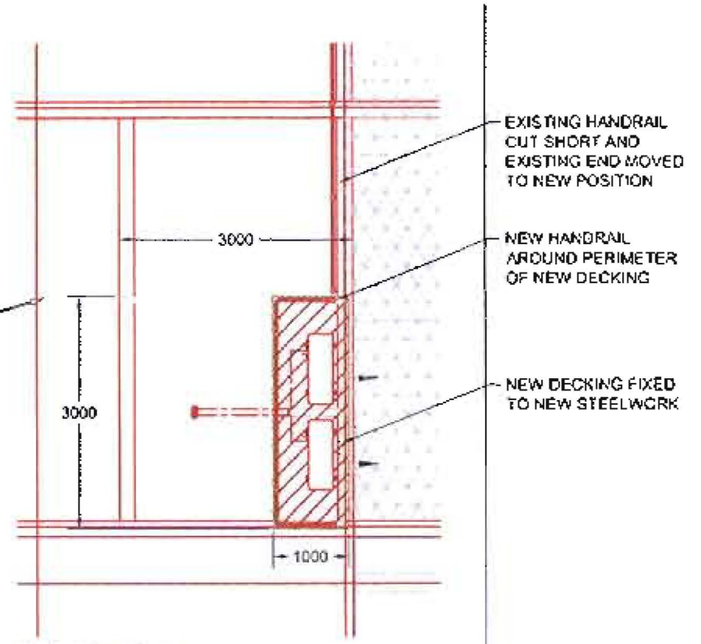



| Outdoor unit RAV<br>Indoor unit (ceiling) RAV<br>Remote control | | SM563AT-E<br>SM562CT-E<br>RBC-AMT31E | SM803AT-E<br>SM802CT-E<br>RBC-AMT31E | SM1103AT-E<br>SM1102CT-E<br>RBC-AMT31E | SM1403AT-E<br>SM1402CT-E<br>RBC-AMT31E |
|---|---|---|---|---|---|
| Cooling capacity range | kW | 5.0 (1.5-5.6) | 7.0 (1.5-8.0) | 10.0 (3.0-11.2) | 12.3 (3.0-13.2) |
| Heating capacity range | kW | 5.6 (1.5-6.3) | 8.0 (1.5-9.0) | 11.2 (3.0-12.5) | 14.0 (3.0-16.0) |
| Power input, cooling/heating | kW | 1.82/1.64 | 2.53/2.47 | 3.51/3.20 | 4.52/4.14 |
| EER, cooling/COP, heating | W/W | 2.75/3.41 | 2.77/3.24 | 2.85/3.50 | 2.72/3.38 |
| Annual power consumption, cooling | kWh | 910 | 1265 | 1755 | 2260 |
| Energy label, cooling/heating | | D/B | D/C | C/B | D/C |
| UK conditions - cooling capacity | kW | 5.44 | 7.76 | 11.65 | 13.59 |
| UK conditions - sensible cooling capacity | kW | 4.22 | 5.85 | 7.73 | 8.75 |
| UK conditions - heating capacity | kW | 5.21 | 7.08 | 9.68 | 12.29 |

| Indoor unit (ceiling) RAV | | SM562CT-E | SM802CT-E | SM1102CT-E | SM1402CT-E |
|---|---|---|---|---|---|
| Air flow (low/medium/high) | l/s | 167/186/217 | 243/278/308 | 353/400/458 | 385/433/500 |
| Air flow (low/medium/high) | m³/h | 601/670/781 | 875/1001/1109 | 1271/1440/1649 | 1386/1559/1800 |
| Sound pressure level (low/medium/high)* | dB(A) | 30/33/36 | 33/36/38 | 35/38/41 | 37/40/43 |
| Sound power level (low/medium/high) | dB(A) | 45/48/51 | 48/51/53 | 50/53/56 | 52/55/58 |
| Dimensions, height x width x depth | mm | 210 x 910 x 680 | 210 x 1180 x 680 | 210 x 1595 x 680 | 210 x 1595 x 680 |
| Weight | kg | 21 | 25 | 33 | 33 |

| Outdoor unit RAV | | SM563AT-E | SM803AT-E | SM1103AT-E | SM1403AT-E |
|---|---|---|---|---|---|
| Air flow | l/s (m³/h) | 667 (2400) | 750 (2700) | 1250 (4500) | 1250 (4500) |
| Sound pressure level, cooling/heating* | dB(A) | 46/48 | 48/50 | 53/54 | 53/54 |
| Sound power level, cooling/heating | dB(A) | 63/65 | 65/67 | 70/71 | 70/71 |
| Dimensions, height x width x depth | mm | 550 x 780 x 290 | 550 x 780 x 290 | 795 x 900 x 320 | 795 x 900 x 320 |
| Weight | kg | 38 | 42 | 77 | 77 |
| Operating range, cooling | °C | -15 to 43 | -15 to 43 | -15 to 43 | -15 to 43 |
| Operating range, heating | °C | -15 to 15 | -15 to 15 | -15 to 15 | -15 to 15 |
| Pipe connections, gas - liquid | in | 1/2 - 1/4 | 5/8 - 3/8 | 5/8 - 3/8 | 5/8 - 3/8 |
| Pipe length, maximum/minimum | m | 30/5 | 30/5 | 50/5 | 50/5 |
| Pipe length, pre-charged | m | 20 | 20 | 30 | 30 |
| Additional R410A charge | g/m | 20 | 40 | 40 | 40 |
| Maximum height difference, above/below | m | 30/30 | 30/30 | 30/30 | 30/30 |
| Max. operating current, cooling | A | 7.7 | 10.3 | 15.0 | 17.6 |
| Fuse size | A | 10 | 16 | 20 | 20 |
| Power supply | V-ph-Hz | 220/240-1-50 | 220/240-1-50 | 220/240-1-50 | 220/240-1-50 |
| Supply to | | Outdoor unit | Outdoor unit | Outdoor unit | Outdoor unit |
| Interconnecting cables | | 3 + E | 3 + E | 3 + E | 3 + E |






PLANT AREA DETAIL




PROPOSED UNIT

PLANNING
REF
RCD 12 MAY 2008
DATE

RIVER ISLAND MANCHESTER ARNDALE ROOF PROPOSAL

RIVER ISLAND



