

Air Handling Unit Applications ~ Toshiba Digital Inverter



Digital Inverter Heat Pumps

| Model | RAV | SM563AT-E | SM803AT-E | SM1103AT-E | SM1403AT-E | SM1603AT-E |
|---|------------|-----------------|-----------------|-----------------|-----------------|------------------|
| Outdoor Unit | | | | | | |
| Control Unit | | | | | | |
| System Data | | | | | | |
| Cooling Capacity (Range) | kW | 5.3 (1.5-5.6) | 6.7 (1.5-7.4) | 10 (3-11.2) | 12.1 (3-13.2) | 14 (3-16) |
| Heating Capacity (Range) | kW | 5.6 (1.5-6.3) | 8 (1.5-9) | 11.2 (3-13) | 14 (3-16) | 16 (3-18) |
| Power Input, Cooling/Heating | kW | 1.65/1.44 | 2.09/2.21 | 3.11/3.1 | 3.77/3.88 | 4.49/4.43 |
| Approximate EER / COP | W/W | 3.21/3.89 | 3.21/3.62 | 3.22/3.61 | 3.21/3.61 | 3.12/3.61 |
| Approximate Annual Power Consumption, Cooling | kWh | 825 | 1045 | 1555 | 1885 | 2245 |
| Outdoor | | | | | | |
| Airflow | l/s (m3/h) | 667 (2400) | 750 (2700) | 1250 (4500) | 1250 (4500) | 1717 (6180) |
| Sound Pressure Level (cooling/heating) | dB(A) | 46/48 | 48/50 | 53/54 | 53/54 | 51/53 |
| Sound Power Level (cooling/heating) | dB(A) | 63/65 | 65/67 | 70/71 | 70/71 | 68/70 |
| Pipe Connections, Gas - Liquid | in | 1/2 - 1/4 | 5/8 - 3/8 | 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 | 50/5 |
| Pre Charged Pipe Length | m | 20 | 20 | 30 | 30 | 30 |
| Additional R410a Charge | g/m | 20 | 40 | 40 | 40 | 40 |
| Base Refrigerant Charge | kg | 1.0 | 1.7 | 2.8 | 2.8 | 3.1 |
| Dimensions (h x w x d) | mm | 550 x 780 x 290 | 550 x 780 x 290 | 795 x 900 x 320 | 795 x 900 x 320 | 1340 x 900 x 320 |
| Weight | kg | 38 | 42 | 77 | 77 | 99 |
| Maximum Operating Current | A | 7.9 | 10.1 | 14.4 | 17.7 | 23.9 |
| Suggested Fuse Size | A | 10 | 16 | 20 | 20 | 25 |

NOTE : Minimum Air On condition to the coil must be 18°C in heating mode