



RBC-AHU1 Air Handling Unit Applications Super Digital Inverter

| CODE | | 35 | 50 | 71 | 100 | |
|--|--|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Outdoor Unit | | RAV- | SP404ATP-E | SP564ATP-E | SP804ATP-E | SP1104AT-E1 |
| Cooling Range (Min. - Max.) | | kW | 1.5 - 4.0 | 1.2 - 5.6 | 1.9 - 8.0 | 2.6 - 12.0 |
| Heating Range (Min. - Max.) | | kW | 1.5 - 5.0 | 0.9 - 8.1 | 1.3 - 11.3 | 2.4 - 13.0 |
| Ambient Operating Range Cooling/Heating | | °C | 43 to -15/15 to -15 | 43 to -15/15 to -15 | 43 to -15/15 to -15 | 43 to -15/15 to -15 |
| Fan(s) | Motor Power | W | 43 | 43 | 63 | 100 + 100 |
| | Standard Air Flow | l/s | 667 | 667 | 833 | 1683 |
| | Standard Air Flow | m³/min | 40 | 40 | 50 | 101 |
| | Standard Air Flow | m³/h | 2400 | 2400 | 3000 | 6060 |
| Sound | Pressure Level C/H | dB(A) | 45/47 | 47/48 | 48/49 | 49/50 |
| | Power Level C/H | dB(A) | 62/64 | 63/64 | 64/65 | 66/67 |
| Unit | Appearance | | Silky Shade (Muncel 1Y 8.5/0.5) | Silky Shade (Muncel 1Y 8.5/0.5) | Silky Shade (Muncel 1Y 8.5/0.5) | Silky Shade (Muncel 1Y 8.5/0.5) |
| | Heat Exchanger | | Finned tube | Finned tube | Finned tube | Finned tube |
| | Compressor Type | | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary |
| | Compressor Power | kW | 1.1 | 1.1 | 2.0 | 3.75 |
| | Height x Width x Depth | mm | 550 x 780 x 290 | 550 x 780 x 290 | 890 x 900 x 320 | 1340 x 900 x 320 |
| | Total Weight | kg | 40 | 44 | 66 | 93 |
| | Refrigerant | Control | | Pulse motor valve | Pulse motor valve | Pulse motor valve |
| | Gas Type | | R410A | R410A | R410A | R410A |
| | Base Charge/Chargeless To | kg/m | 1/20 | 1.4/20 | 2.1/30 | 3.1/30 |
| | Additional Charge Main Liquid Side | g/m | 20 | 20 | 40 | 40 |
| | Replacement Technology | Yes | R22, R407C, R417A, R134a, R12 | R22, R407C, R417A, R134a, R12 | R22, R407C, R417A, R134a, R12 | R22, R407C, R417A, R134a, R12 |
| Pipe Connections | Min.-Max. Length | m | 5-30 | 5-50 | 5-50 | 3-75 |
| | Height Difference Outdoor To AHU | m | ±30 | ±30 | ±30 | ±30 |
| | Gas Side | inch | 1/2 | 1/2 | 5/8 | 5/8 |
| | Liquid Side | inch | 1/4 | 1/4 | 3/8 | 3/8 |
| | Drain Port Connector Hose Inner Diameter | mm | 16 | 16 | 16 | 16 |
| Electrical | Power Supply | V/ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| | Maximum Run Current | A | 4.98 | 6.55 | 9.02 | 10.43 |
| | Suggested Fused Supply | A | 10 | 16 | 16 | 16 |
| Control Panel | | RBC- | AHU1 | AHU1 | AHU1 | AHU1 |
| Unit | Height x Width x Depth | mm | 300 x 300 x 150 | 300 x 300 x 150 | 300 x 300 x 150 | 300 x 300 x 150 |
| | Weight | kg | 10 | 10 | 10 | 10 |
| Electrical | Power Supply | V/ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| | Common Alarm Output | | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA |
| | Run Indication Output | | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA |
| | Remote START/STOP | V | 0 | 0 | 0 | 0 |
| | Wired controller ON/OFF Lock | V | 0 | 0 | 0 | 0 |
| | Suggested Fused Supply | A | 6 | 6 | 6 | 6 |
| | | | | | | |
| AHU DX Coil Design (Third Party Supply) | | | AHU DX Coil | AHU DX Coil | AHU DX Coil | AHU DX Coil |
| Capacity | Cooling | kW | 4.0 | 5.6 | 8.0 | 12.0 |
| | Heating | kW | 5.0 | 8.1 | 11.3 | 13.0 |
| Design | Evaporating Temperature Range | °C | 4 - 7 | 4 - 7 | 4 - 7 | 4 - 7 |
| | Suction Superheat (Target) | K | 5 | 5 | 5.00 | 5.00 |
| Heat Exchanger | Air Volume Min. - Max. | m³/h | 480 - 880 | 480 - 1100 | 700 - 1500 | 1260 - 2500 |
| | Coil Pipe Diameter | mm - " | 9.52 - 3/8 | 9.52 - 3/8 | 9.52 - 3/8 | 9.52 - 3/8 |
| | Paths | No. | 4 | 4 - 6 | 6-8 | 6-10 |
| | DX Coil Burst Pressure (Greater Than) | mPa | 12.45 | 12.45 | 12.45 | 12.45 |
| | Maximum System Operating Pressure | mPa | 4.15 | 4.15 | 4.15 | 4.15 |



RBC-AHU1 Air Handling Unit Applications Super Digital Inverter (continued)

| CODE | | 100 | 125 | 125 | 140 | |
|--|--|----------------------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|
| Outdoor Unit | | RAV- | SP1104AT8-E1 | SP1404AT-E1 | SP1404AT8-E1 | SP1604AT8-E1 |
| Cooling Range (Min. - Max.) | | kW | 2.6 - 12.0 | 2.6 - 14.0 | 2.6 - 14.0 | 2.6 - 16.0 |
| Heating Range (Min. - Max.) | | kW | 2.4 - 15.6 | 2.4 - 16.5 | 2.4 - 18.0 | 2.4 - 19.0 |
| Ambient Operating Range Cooling/Heating | | °C | 46 to -15/15 to -20 | 43 to -15/15 to -15 | 46 to -15/15 to -20 | 46 to -15/15 to -20 |
| Fan(s) | Motor Power | W | 100 + 100 | 100 + 100 | 100 + 100 | 100 + 100 |
| | Standard Air Flow | l/s | 1683 | 1717 | 1717 | 1717 |
| | Standard Air Flow | m³/min | 101 | 103 | 103 | 103 |
| | Standard Air Flow | m³/h | 6060 | 6180 | 6180 | 6180 |
| Sound | Pressure Level C/H | dB(A) | 49/50 | 51/52 | 51/52 | 51/52 |
| | Power Level C/H | dB(A) | 66/67 | 68/69 | 68/69 | 68/69 |
| Unit | Appearance | | Silky Shade (Muncel 1Y 8.5/0.5) | Silky Shade (Muncel 1Y 8.5/0.5) | Silky Shade (Muncel 1Y 8.5/0.5) | Silky Shade (Muncel 1Y 8.5/0.5) |
| | Heat Exchanger | | Finned tube | Finned tube | Finned tube | Finned tube |
| | Compressor Type | | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary | Hermetic Twin Rotary |
| | Compressor Power | kW | 3.75 | 3.75 | 3.75 | 3.75 |
| | Height x Width x Depth | mm | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 | 1340 x 900 x 320 |
| Refrigerant | Total Weight | kg | 95 | 93 | 95 | 95 |
| | Control | | Pulse motor valve | Pulse motor valve | Pulse motor valve | Pulse motor valve |
| | Gas Type | | R410A | R410A | R410A | R410A |
| | Base Charge/Chargeless To | kg/m | 3.1/30 | 3.1/30 | 3.1/30 | 3.1/30 |
| | Additional Charge Main Liquid Side | g/m | 40 | 40 | 40 | 40 |
| Replacement Technology | Yes | R22, R407C, R417A, R134a, R12 | R22, R407C, R417A, R134a, R12 | R22, R407C, R417A, R134a, R12 | R22, R407C, R417A, R134a, R12 | |
| Pipe Connections | Min.-Max. Length | m | 3-75 | 3-75 | 3-75 | 3-75 |
| | Height Difference Outdoor To AHU | m | ±30 | ±30 | ±30 | ±30 |
| | Gas Side | inch | 5/8 | 5/8 | 5/8 | 5/8 |
| | Liquid Side | inch | 3/8 | 3/8 | 3/8 | 3/8 |
| | Drain Port Connector Hose Inner Diameter | mm | 16 | 16 | 16 | 16 |
| Electrical | Power Supply | V/ph/Hz | 380-415/3/50 | 220-240/1/50 | 380-415/3/50 | 380-415/3/50 |
| | Maximum Run Current | A | 3.72 | 15.76 | 5.42 | 6.66 |
| | Suggested Fused Supply | A | 10 | 25 | 16 | 16 |
| Control Panel | | RBC- | AHU1 | AHU1 | AHU1 | AHU1 |
| Unit | Height x Width x Depth | mm | 300 x 300 x 150 | 300 x 300 x 150 | 300 x 300 x 150 | 300 x 300 x 150 |
| | Weight | kg | 10 | 10 | 10 | 10 |
| Electrical | Power Supply | V/ph/Hz | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 | 220-240/1/50 |
| | Common Alarm Output | | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA |
| | Run Indication Output | | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA | 12 V DC 20 mA |
| | Remote START/STOP | V | 0 | 0 | 0 | 0 |
| | Wired controller ON/OFF Lock | V | 0 | 0 | 0 | 0 |
| | Suggested Fused Supply | A | 6 | 6 | 6 | 6 |
| AHU DX Coil Design (Third Party Supply) | | | AHU DX Coil | AHU DX Coil | AHU DX Coil | AHU DX Coil |
| Capacity | Cooling | kW | 12.0 | 14.0 | 14.0 | 16.0 |
| | Heating | kW | 13.0 | 16.5 | 16.5 | 19.0 |
| Design | Evaporating Temperature Range | °C | 4 - 7 | 4 - 7 | 4 - 7 | 4 - 7 |
| | Suction Superheat (Target) | K | 5.00 | 5.00 | 5.00 | 5.00 |
| Heat Exchanger | Air Volume Min. - Max. | m³/h | 1260 - 2500 | 1260 - 2750 | 1260 - 2750 | 1260 - 3000 |
| | Coil Pipe Diameter | mm - " | 9.52 - 3/8 | 9.52 - 3/8 | 9.52 - 3/8 | 9.52 - 3/8 |
| | Paths | No. | 6-10 | 8-12 | 8-12 | 8-12 |
| | DX Coil Burst Pressure (Greater Than) | mPa | 12.45 | 12.45 | 12.45 | 12.45 |
| | Maximum System Operating Pressure | mPa | 4.15 | 4.15 | 4.15 | 4.15 |