GENERAL FEATURES

• Slim wall-mounted indoor units provide zone comfort control.
• The outdoor unit powers the indoor unit, and should a power outage occur, the system is automatically restarted when power returns.
• INVERTER-driven compressor and LEV provide high efficiency and comfort while using only the energy needed to maintain maximum performance.
• H2i® - Hyper Heat Performance offers 100% heating capacity at 5°F and 70%-81% heating capacity at -13°F.
• Multiple fan speed options: Quiet, Low, Medium, High, Super-high, Auto.
• 3D i-see Sensor™ enables advance features:
  - Indirect or Direct Airflow for personalized comfort
  - Absence Detection for energy-saving mode
• Double Vane features:
  - Separates airflow to deliver air across a large area
  - Simultaneously deliver air to two people in different locations
  - Generates more comfortable natural airflow pattern
• Multiple control options available:
  - Hand-held Remote Controller (provided with unit)
  - kumo cloud® smart device app for remote access
  - Third-party interface options
  - Wired or wireless controllers
• Triple-action Filtration: Nano Platinum Filter, Deodorizing Filter, & Electrostatic Anti-Allergy Enzyme Filter.
• Hot-Start Technology: no cold air rush at equipment startup or when restarting after Defrost Cycle.
• Quiet operation
• Blue Fin anti-corrosion treatment applied to the outdoor unit heat exchanger for increased coil protection and longer life.
### Cooling

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity</td>
<td>Btu/h</td>
<td>12,000</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>Btu/h</td>
<td>9,000</td>
</tr>
<tr>
<td>Minimum Capacity</td>
<td>Btu/h</td>
<td>1,700</td>
</tr>
<tr>
<td>Maximum Power Input</td>
<td>W</td>
<td>1,000</td>
</tr>
<tr>
<td>Rated Power Input</td>
<td>W</td>
<td>560</td>
</tr>
<tr>
<td>Moisture Removal</td>
<td>Pints/h</td>
<td>0.6</td>
</tr>
<tr>
<td>Sensible Heat Factor</td>
<td></td>
<td>0.92</td>
</tr>
<tr>
<td>Power Factor</td>
<td>%</td>
<td>90 / 90</td>
</tr>
</tbody>
</table>

### Heating at 47°F

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity</td>
<td>Btu/h</td>
<td>18,000</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>Btu/h</td>
<td>10,900</td>
</tr>
<tr>
<td>Minimum Capacity</td>
<td>Btu/h</td>
<td>1,600</td>
</tr>
<tr>
<td>Maximum Power Input</td>
<td>W</td>
<td>1,470</td>
</tr>
<tr>
<td>Rated Power Input</td>
<td>W</td>
<td>710</td>
</tr>
<tr>
<td>Power Factor</td>
<td>%</td>
<td>94 / 94</td>
</tr>
</tbody>
</table>

### Heating at 17°F

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity</td>
<td>Btu/h</td>
<td>12,200</td>
</tr>
<tr>
<td>Rated Capacity</td>
<td>Btu/h</td>
<td>6,700</td>
</tr>
<tr>
<td>Maximum Power Input</td>
<td>W</td>
<td>1,440</td>
</tr>
<tr>
<td>Rated Power Input</td>
<td>W</td>
<td>600</td>
</tr>
</tbody>
</table>

### Heating at 5°F

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity</td>
<td>Btu/h</td>
<td>10,900</td>
</tr>
<tr>
<td>Maximum Power Input</td>
<td>W</td>
<td>1,350</td>
</tr>
</tbody>
</table>

### Heating at -4°F

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity</td>
<td>Btu/h</td>
<td>9,260</td>
</tr>
</tbody>
</table>

### Heating at -13°F

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Unit</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum Capacity</td>
<td>Btu/h</td>
<td>7,630</td>
</tr>
</tbody>
</table>

### Efficiency

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>SEER</td>
<td>30.5</td>
</tr>
<tr>
<td>EER(^1)</td>
<td>16.1</td>
</tr>
<tr>
<td>HSPF (IV)</td>
<td>13.5</td>
</tr>
<tr>
<td>COP at 47°F(^2)</td>
<td>4.50</td>
</tr>
<tr>
<td>COP at 17°F in Maximum Capacity(^3)</td>
<td>2.48</td>
</tr>
<tr>
<td>COP at 5°F in Maximum Capacity(^4)</td>
<td>2.37</td>
</tr>
<tr>
<td>ENERGY STAR® Certified (ENERGY STAR products are third-party certified by an EPA-recognized Certification Body.)</td>
<td>YES</td>
</tr>
</tbody>
</table>

### Electrical

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Voltage, Phase, Frequency</td>
<td>208/230V, 1 phase, 60Hz</td>
</tr>
<tr>
<td>Guaranteed Voltage Range</td>
<td>V AC 187 - 253</td>
</tr>
<tr>
<td>Voltage: Indoor - Outdoor, S1-S2</td>
<td>V AC 208 / 230</td>
</tr>
<tr>
<td>Voltage: Indoor - Outdoor, S2-S3</td>
<td>V DC 24</td>
</tr>
<tr>
<td>Voltage: Indoor - Remote Controller</td>
<td>Wireless Type</td>
</tr>
<tr>
<td>Recommended Fuse/Breaker Size</td>
<td>A 15</td>
</tr>
<tr>
<td>Recommended Wire Size (Indoor - Outdoor)</td>
<td>AWG 14</td>
</tr>
</tbody>
</table>

### Indoor Unit

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCA</td>
<td>A 1</td>
</tr>
<tr>
<td>MOCP</td>
<td>A 15</td>
</tr>
<tr>
<td>Blower Motor Full Load Amperage</td>
<td>A 0.67</td>
</tr>
<tr>
<td>Blower Motor Output</td>
<td>W 30</td>
</tr>
<tr>
<td>Feature</td>
<td>Value</td>
</tr>
<tr>
<td>----------------------------------------------</td>
<td>--------------------------------------------</td>
</tr>
<tr>
<td><strong>Airflow Rate at Cooling, Dry</strong> CFM</td>
<td>381-304-221-167-137</td>
</tr>
<tr>
<td><strong>Airflow Rate at Cooling, Wet</strong> CFM</td>
<td>328-261-190-143-117</td>
</tr>
<tr>
<td><strong>Airflow Rate at Heating, Dry</strong> CFM</td>
<td>437-325-225-167-140</td>
</tr>
<tr>
<td><strong>Sound Pressure Level (Cooling)</strong> dB(A)</td>
<td>40-36-29-23-20</td>
</tr>
<tr>
<td><strong>Sound Pressure Level (Heating)</strong> dB(A)</td>
<td>42-36-29-24-20</td>
</tr>
<tr>
<td><strong>Drain Pipe Size</strong> In. (mm)</td>
<td>5/8 (15.88)</td>
</tr>
<tr>
<td><strong>Heat Exchanger Type</strong></td>
<td>Plate fin coil</td>
</tr>
<tr>
<td><strong>External Finish Color</strong></td>
<td>Munsell 1.0Y 9.2/0.2</td>
</tr>
<tr>
<td><strong>Unit Dimensions</strong></td>
<td>W: In. (mm) 36-7/16 (925)</td>
</tr>
<tr>
<td><strong>Package Dimensions</strong></td>
<td>D: In. (mm) 9-3/16 (234)</td>
</tr>
<tr>
<td></td>
<td>H: In. (mm) 12 [+11/16] (305 [+17])</td>
</tr>
<tr>
<td><strong>Unit Weight</strong> Lbs. (kg)</td>
<td>29 (13.5)</td>
</tr>
<tr>
<td><strong>Package Weight</strong> Lbs. (kg)</td>
<td>34 (15.4)</td>
</tr>
<tr>
<td><strong>Indoor Unit Operating Temperature Range</strong></td>
<td></td>
</tr>
<tr>
<td><em><em>Cooling Intake Air Temp (Maximum / Minimum)</em> °F</em>*</td>
<td>90 DB, 73 WB / 67 DB, 57 WB</td>
</tr>
<tr>
<td><strong>Heating Intake Air Temp (Maximum / Minimum)</strong> °F</td>
<td>80 DB / 70 DB</td>
</tr>
<tr>
<td><em><em>Cooling Intake Air Temp (Maximum / Minimum)</em> °F</em>*</td>
<td>90 DB, 73 WB / 67 DB, 57 WB</td>
</tr>
<tr>
<td><strong>Heating Intake Air Temp (Maximum / Minimum)</strong> °F</td>
<td>80 DB / 70 DB</td>
</tr>
<tr>
<td><strong>Outdoor Unit</strong></td>
<td></td>
</tr>
<tr>
<td><strong>MCA</strong></td>
<td>A</td>
</tr>
<tr>
<td><strong>MOCP</strong></td>
<td>A</td>
</tr>
<tr>
<td><strong>Fan Motor Full Load Amperage</strong> A</td>
<td>0.5</td>
</tr>
<tr>
<td><strong>Fan Motor Output</strong> W</td>
<td>55</td>
</tr>
<tr>
<td><strong>Airflow Rate</strong> CFM</td>
<td>1,074 / 1,202</td>
</tr>
<tr>
<td><strong>Refrigerant Control</strong></td>
<td>LEV</td>
</tr>
<tr>
<td><strong>Defrost Method</strong></td>
<td>Reverse cycle</td>
</tr>
<tr>
<td><strong>Heat Exchanger Type</strong></td>
<td>Plate fin coil</td>
</tr>
<tr>
<td><strong>Sound Pressure Level, Cooling1 dB(A)</strong></td>
<td>48</td>
</tr>
<tr>
<td><strong>Sound Pressure Level, Heating2 dB(A)</strong></td>
<td>49</td>
</tr>
<tr>
<td><strong>Compressor Type</strong></td>
<td>DC INVERTER-driven</td>
</tr>
<tr>
<td><strong>Compressor Model</strong></td>
<td>SNV0912FQAMT</td>
</tr>
<tr>
<td><strong>Compressor Rated Load Amps</strong> A</td>
<td>8.2</td>
</tr>
<tr>
<td><strong>Compressor Locked Rotor Amps</strong> A</td>
<td>10.3</td>
</tr>
<tr>
<td><strong>Compressor Oil Type // Charge</strong> oz. FY50S // 11.8</td>
<td></td>
</tr>
<tr>
<td><strong>External Finish Color</strong></td>
<td>Munsell 3Y 7.8/1/1</td>
</tr>
<tr>
<td><strong>Base Pan Heater</strong></td>
<td>Optional</td>
</tr>
<tr>
<td><strong>Unit Dimensions</strong></td>
<td>W: In. (mm) 31-1/3 (800)</td>
</tr>
<tr>
<td></td>
<td>D: In. (mm) 11-1/5 (285)</td>
</tr>
<tr>
<td></td>
<td>H: In. (mm) 21-5/9 (550)</td>
</tr>
<tr>
<td><strong>Package Dimensions</strong></td>
<td>W: In. (mm) 37 (940)</td>
</tr>
<tr>
<td></td>
<td>D: In. (mm) 14-15/16 (380)</td>
</tr>
<tr>
<td></td>
<td>H: In. (mm) 24-13/16 (630)</td>
</tr>
</tbody>
</table>
### Unit Weight

<table>
<thead>
<tr>
<th></th>
<th>lbs (kg)</th>
<th>81 (37)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Package Weight</td>
<td>lbs (kg)</td>
<td>88 (40)</td>
</tr>
</tbody>
</table>

### Outdoor Unit Operating Temperature Range

<table>
<thead>
<tr>
<th></th>
<th>°F</th>
<th>115 / 14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Cooling Air Temp (Maximum / Minimum)*</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Cooling Thermal Lock-out / Re-start Temperatures**</td>
<td>°F</td>
<td>-1 / 3</td>
</tr>
<tr>
<td>Heating Air Temp (Maximum / Minimum)</td>
<td>°F</td>
<td>75 / -13</td>
</tr>
<tr>
<td>Heating Thermal Lock-out / Re-start Temperatures**</td>
<td>°F</td>
<td>-18 / -14</td>
</tr>
</tbody>
</table>

### Refrigerant

<table>
<thead>
<tr>
<th>Type</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Charge</td>
<td>lbs oz</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>2, 9</th>
</tr>
</thead>
</table>

### Piping

<table>
<thead>
<tr>
<th></th>
<th>In (mm)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gas Pipe Size O.D. (Flared)</td>
<td>3/8 (9.52)</td>
</tr>
<tr>
<td>Liquid Pipe Size O.D. (Flared)</td>
<td>1/4 (6.35)</td>
</tr>
<tr>
<td>Maximum Piping Length</td>
<td>Ft (m)</td>
</tr>
<tr>
<td>Maximum Height Difference</td>
<td>Ft (m)</td>
</tr>
<tr>
<td>Maximum Number of Bends</td>
<td></td>
</tr>
</tbody>
</table>

### Notes

#### AHRI Rated Conditions

<table>
<thead>
<tr>
<th>Description</th>
<th>°F</th>
<th>Condition</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 Cooling</td>
<td>80 DB, 67 WB // 95 DB, 75 WB</td>
<td></td>
</tr>
<tr>
<td>2 Heating at 47°F</td>
<td>70 DB, 60 WB // 47 DB, 43 WB</td>
<td></td>
</tr>
<tr>
<td>3 Heating at 17°F</td>
<td>70 DB, 60 WB // 17 DB, 15 WB</td>
<td></td>
</tr>
<tr>
<td>4 Heating at 5°F</td>
<td>70 DB, 60 WB // 5 DB, 4 WB</td>
<td></td>
</tr>
<tr>
<td>5 Heating at -4°F</td>
<td>70 DB, 60 WB // -4 DB, -5 WB</td>
<td></td>
</tr>
<tr>
<td>6 Heating at -13°F</td>
<td>70 DB, 60 WB // -13 DB, -14 WB</td>
<td></td>
</tr>
</tbody>
</table>

*Applications should be restricted to comfort cooling only; equipment cooling applications are not recommended for low ambient temperature conditions. **System cuts out in heating mode to avoid thermistor error and automatically restarts at these temperatures.
<table>
<thead>
<tr>
<th>Description</th>
<th>Code</th>
</tr>
</thead>
<tbody>
<tr>
<td>Deodorizing Filter</td>
<td>MAC-3000FT-E</td>
</tr>
<tr>
<td>Electrostatic Anti-allergy Enzyme Filter</td>
<td>MAC-2330FT-E</td>
</tr>
<tr>
<td>Backlit, Wall-mounted, Wireless Controller</td>
<td>MHK1</td>
</tr>
<tr>
<td>Portable Central Controller</td>
<td>MCCH1</td>
</tr>
<tr>
<td>Wired MA Controller(^1)</td>
<td>PAR-33MAA</td>
</tr>
<tr>
<td>Simple MA Controller(^1)</td>
<td>PAC-YT53CRAU</td>
</tr>
<tr>
<td>Touch MA Controller(^1)</td>
<td>PAR-CT01MAU-SB</td>
</tr>
<tr>
<td>Wired Remote Sensor</td>
<td>M21-EAA-307</td>
</tr>
<tr>
<td>Wireless Temperature and Humidity Sensor</td>
<td>PAC-USWH5003-TH-1</td>
</tr>
<tr>
<td>Outside Air Sensor for MHK1</td>
<td>MOS1</td>
</tr>
<tr>
<td>System Control Interface(^2)</td>
<td>MAC-3331IF-E</td>
</tr>
<tr>
<td>Wireless Interface</td>
<td>PAC-USWH5002-WF-1</td>
</tr>
<tr>
<td>Thermostat Interface</td>
<td>PAC-US444CN-1</td>
</tr>
<tr>
<td>kumo station(^\circledast)</td>
<td>PAC-WH501HC-E</td>
</tr>
<tr>
<td>USNAP Interface</td>
<td>PAC-WH501UP-E</td>
</tr>
<tr>
<td>IT Extender</td>
<td>PAC-WH501IE-E</td>
</tr>
<tr>
<td>BACnet(^\circledast) and MODBUS(^\circledast) Interface</td>
<td>PAC-UKPRC001-CN-1</td>
</tr>
<tr>
<td>External Fan / Heater Control Relay Adapter</td>
<td>CN24RELAY-KIT-CM3</td>
</tr>
<tr>
<td>Lockdown Bracket for Hand-held Remote Controllers</td>
<td>RCMKP1CB</td>
</tr>
<tr>
<td>Blue Diamond Sensor Extension Cable — 15 Ft.</td>
<td>C13-103</td>
</tr>
<tr>
<td>Blue Diamond Alarm Extension Cable — 6.5 Ft.</td>
<td>C13-192</td>
</tr>
<tr>
<td>Blue Diamond MultiTank — collection tank for use with multiple pumps</td>
<td>C21-014</td>
</tr>
<tr>
<td>Blue Diamond Rubber Foot Pads</td>
<td>F10-010</td>
</tr>
<tr>
<td>Mini Condensate Pump — 230 volt application</td>
<td>S130-230</td>
</tr>
<tr>
<td>MegaBlue Advanced Blue Diamond Condensate Pump w/ Reservoir &amp; Sensor</td>
<td>X87-835 - 110 to 250V</td>
</tr>
<tr>
<td>MaxiBlue Advanced Blue Diamond Mini Condensate Pump w/ Reservoir &amp; Sensor (110V) up to 48,000 Btu/h [recommended]</td>
<td>X87-711 - 110V</td>
</tr>
<tr>
<td>Advanced Blue Diamond Mini Condensate Pump w/ Reservoir &amp; Sensor (208/230V) [recommended]</td>
<td>X87-721 - 208/230V</td>
</tr>
<tr>
<td>MicroBlue Blue Diamond Mini Condensate Pump (110/208/230V) up to 18,000 Btu/h</td>
<td>X85-003</td>
</tr>
<tr>
<td>Fascia Kit for MicroBlue Pump — mounts the MicroBlue and sensor directly beneath the indoor unit</td>
<td>T18-016</td>
</tr>
<tr>
<td>Drain Pan Level Sensor</td>
<td>DPLS2</td>
</tr>
<tr>
<td>(30A/600V/UL) [fits 2&quot; X 4&quot; utility box] - Black</td>
<td>TAZ-MS303</td>
</tr>
<tr>
<td>(30A/600V/UL) [fits 2&quot; X 4&quot; utility box] - White</td>
<td>TAZ-MS303W</td>
</tr>
</tbody>
</table>

\(^1\) Requires MAC-3331IF-E  
\(^2\) Allows indoor units to connect to an MA Controller
<table>
<thead>
<tr>
<th>Accessory Description</th>
<th>Part Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>Air Outlet Guide</td>
<td>MAC-881SG</td>
</tr>
<tr>
<td>Drain Socket</td>
<td>MAC-860DS</td>
</tr>
<tr>
<td>Optional Defrost Heater</td>
<td>MAC-640BH-U</td>
</tr>
<tr>
<td>Hail Guard</td>
<td>HG-B4</td>
</tr>
<tr>
<td>Outdoor Unit 3-1/4 inch Mounting Base (Pair) - Plastic</td>
<td>DSD-400P</td>
</tr>
<tr>
<td>Condensing Unit Mounting Pad 16&quot; x 36&quot; x 3&quot;</td>
<td>ULTRILITE1</td>
</tr>
<tr>
<td>Outdoor Unit Stand — 12&quot; High</td>
<td>QSMS1201M</td>
</tr>
<tr>
<td>Outdoor Unit Stand — 18&quot; High</td>
<td>QSMS1801M</td>
</tr>
<tr>
<td>Outdoor Unit Stand — 24&quot; High</td>
<td>QSMS2401M</td>
</tr>
<tr>
<td>Heavy Duty Wall Mounting Bracket — Coated Steel</td>
<td>QSWB2000M-1</td>
</tr>
<tr>
<td>Heavy Duty Wall Mounting Bracket — 316 Series Stainless Steel</td>
<td>QSWBSS</td>
</tr>
<tr>
<td>15' x 1/4&quot; x 15' / 3/8&quot; Lineset (Twin-Tube Insulation)</td>
<td>MLS143812T-15</td>
</tr>
<tr>
<td>30' x 1/4&quot; x 30' / 3/8&quot; Lineset (Twin-Tube Insulation)</td>
<td>MLS143812T-30</td>
</tr>
<tr>
<td>50' x 1/4&quot; x 50' / 3/8&quot; Lineset (Twin-Tube Insulation)</td>
<td>MLS143812T-50</td>
</tr>
<tr>
<td>65' x 1/4&quot; x 65' / 3/8&quot; Lineset (Twin-Tube Insulation)</td>
<td>MLS143812T-65</td>
</tr>
</tbody>
</table>
REQUIRED SPACE

*1 4 in. or more when front and sides of the unit are clear

*2 When any 2 sides of left, right and rear of the unit are clear