The B5BM Series of air handlers, when combined with our heat pump or air conditioner, offer a full line of quality, split system heating and cooling equipment.

FEATURES and BENEFITS

• **Durable, Attractive Cabinet** — Designed using galvanized steel. The door is also galvanized steel, with a polyester urethane finish. The 950 hour salt spray finish resists corrosion 50% better than comparable units. The plastic drain pan is corrosion-resistant.

• **Multi-poised** — Can be used in horizontal, upflow, downflow and vertical applications.

• **Multi-speed** — Gives flexibility of installation.

• **Ease-of-Service** — Plug-in wire connections and built-in filter rack makes the air handler easy to service.

• **Plug-in Heater Kits** — Available in 5kw - 30 kw (Not for use in 115 Volt units)

• **Circuit Board** — Incorporating blower time delay relay, low voltage terminal strip, and heat-strip sequencing.

• **Air Handler Control Board** — Controls time-sequencing of heat stages with field-selectable sequence timing.

• **Breaker Accessibility** — Breaker accessible from front of unit when heater is applied.

• **No Fasteners on Sides or Back** — Smooth surfaces for ease of installation.

• **Cabinet Insulation** — 1” insulation with an R-value of 4.2 contributes to quiet operation and prevents cabinet sweating in difficult applications.

• **Warranty** — The best in the industry.
  • 5 year limited parts
  • 2 year mileage
  • 2 year labor
MODEL IDENTIFICATION CODE

Indoor Air Handler
Design Series
Motor:
Configuration:

METAL ACCESSORIES

Model Number

HSHK Voltage KW

NONE 240 - - - - 7.5 - - - - 15 - - - - 15
00SH-XX 240 4.8 - - - - 55 - - - - 60 - - - - 60
00B-XX 240 7.5 - - - - 60 - - - - 50 - - - - 50
01SH-XX 240 9.6 - - - - 60 - - - - 60 - - - - 60
01SH-XX 240 14.4 - - - - 60 - - - - 60 - - - - 60
02SH-XX 240 19.2 - - - - 60 - - - - 60 - - - - 60
02SH-XX 240 24.0 - - - - - - - - 59 - - - - 59
03SH-XX 240 28.8 - - - - - - - - 59 - - - - 59

NONE 208 - - - - 7.5 - - - - 15 - - - - 15
00SH-XX 208 3.6 - - - - 55 - - - - 30 - - - - 30
00BH-XX 208 5.6 - - - - 60 - - - - 40 - - - - 40
01BH-XX 208 7.2 - - - - 60 - - - - 50 - - - - 50
01SH-XX 208 10.8 - - - - 60 - - - - 60 - - - - 60
02SH-XX 208 14.4 - - - - 60 - - - - 60 - - - - 60
02SH-XX 208 19.2 - - - - 60 - - - - 60 - - - - 60
03SH-XX 208 24.0 - - - - - - - - 59 - - - - 59

240V Single-Phase Heater Kit Application

240V Three-Phase Heater Kit Application

ACCESSORIES

Accessory Kit Description

Cabinet Size

Order Number

Down-flow adaptor kit

X 917342

X 919321

X 919322

Single circuit adaptor for 2 circuit breakers

X X 913874

Single circuit adaptor for 3 circuit breakers

n/a n/a X 913556

Horizontal conversion kit for vertical-only units

X X 903749

X 914730

X 914730

Variable Speed Blower Conversion Kit

X 919325

X 919326

X 919327

1Required for 042 models

ELECTRICAL DATA

Nominal KW

Matched Units

Order Number

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2

- 2
## DIMENSIONS

![Diagram of the unit with dimensions labeled]

## SPECIFICATIONS

<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>Nominal cooling capacity - BTUh</td>
<td>24000</td>
<td>24000</td>
<td>30000</td>
<td>24000</td>
<td>24000</td>
<td>30000</td>
<td>36000</td>
<td>36000</td>
<td>42000</td>
<td>48000</td>
<td>48000</td>
<td>60000</td>
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<tr>
<td>Orifice size (if supplied)</td>
<td>0.050</td>
<td>0.061</td>
<td>0.069</td>
<td>0.050</td>
<td>0.061</td>
<td>0.069</td>
<td>0.078</td>
<td>0.078</td>
<td>0.083</td>
<td>0.090</td>
<td>0.090</td>
<td>0.101</td>
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<td>Maximum Available Auxiliary Heat</td>
<td>10 10</td>
<td>10 15</td>
<td>15 20</td>
<td>20 20</td>
<td>20 20</td>
<td>20 20</td>
<td>20 20</td>
<td>20 30</td>
<td>30 30</td>
<td>30 30</td>
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<tr>
<td>Nominal Blower Size (Dia. x Width)</td>
<td>10 x 6</td>
<td>10 x 6</td>
<td>10 x 6</td>
<td>10 x 6</td>
<td>10 x 8</td>
<td>10 x 8</td>
<td>10 x 8</td>
<td>10 x 8</td>
<td>10 x 10</td>
<td>10 x 10</td>
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<td>Motor Hp-speeds-type</td>
<td>1/5-3-PSC</td>
<td>1/5-3-PSC</td>
<td>1/3-3-PSC</td>
<td>1/5-3-PSC</td>
<td>1/5-3-PSC</td>
<td>1/3-3-PSC</td>
<td>1/3-3-PSC</td>
<td>1/3-3-PSC</td>
<td>1/3-3-PSC</td>
<td>1/2-3-PSC</td>
<td>1/2-3-PSC</td>
<td>3/4-5-BDC</td>
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<tr>
<td>Filter Size (supplied internal filter rack)</td>
<td>12x20x1</td>
<td>12x20x1</td>
<td>12x20x1</td>
<td>18x20x1</td>
<td>18x20x1</td>
<td>18x20x1</td>
<td>18x20x1</td>
<td>18x20x1</td>
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<td>20x20x1</td>
<td>20x20x1</td>
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<td>Approximate Shipping Weight, lbs</td>
<td>87</td>
<td>87</td>
<td>90</td>
<td>107</td>
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<td>110</td>
<td>110</td>
<td>130</td>
<td>130</td>
<td>150</td>
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<tr>
<td>Supply Air Outlet Dimension, in.</td>
<td>12-7/8 x 12-3/4</td>
<td>12-7/8 x 12-3/4</td>
<td>12-7/8 x 12-3/4</td>
<td>12-7/8 x 12-3/4</td>
<td>12-7/8 x 18-1/4</td>
<td>12-7/8 x 18-1/4</td>
<td>12-7/8 x 18-1/4</td>
<td>12-7/8 x 18-1/4</td>
<td>12-7/8 x 18-1/4</td>
<td>12-7/8 x 18-1/4</td>
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<td></td>
</tr>
</tbody>
</table>

1 See current ARI Directory for certified combinations and ratings.
2 When supplied, orifice is sized for most common R-22 13 SEER HP match. See outdoor unit documentation for orifice size.
3 Filter is not supplied with unit.
### BLOWER PERFORMANCE DATA

#### Dry Coil ESP

<table>
<thead>
<tr>
<th>ESP</th>
<th>0.10</th>
<th>0.20</th>
<th>0.30</th>
<th>0.40</th>
<th>0.50</th>
<th>0.60</th>
<th>0.70</th>
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<td></td>
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<tr>
<td>Corrected ESP</td>
<td>683</td>
<td>647</td>
<td>607</td>
<td>563</td>
<td>515</td>
<td>463</td>
<td>406</td>
<td>345</td>
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<tr>
<td>Medium</td>
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<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Corrected ESP</td>
<td>861</td>
<td>823</td>
<td>781</td>
<td>734</td>
<td>682</td>
<td>625</td>
<td>564</td>
<td>498</td>
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<tr>
<td>High</td>
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<td></td>
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<td></td>
</tr>
<tr>
<td>Corrected ESP</td>
<td>1072</td>
<td>1026</td>
<td>975</td>
<td>920</td>
<td>860</td>
<td>797</td>
<td>730</td>
<td>659</td>
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</tbody>
</table>

#### Notes:

1. Airflow is shown in cfm, +/- 5%.
2. External static pressure (ESP) is shown in inches w.c.
3. See unit nameplate or installation instructions for maximum recommended external static pressure.

**Dry Coil ESP**

<table>
<thead>
<tr>
<th>ESP</th>
<th>0.10</th>
<th>0.20</th>
<th>0.30</th>
<th>0.40</th>
<th>0.50</th>
<th>0.60</th>
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<tbody>
<tr>
<td>Low</td>
<td></td>
<td></td>
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<tr>
<td>Corrected ESP</td>
<td>849</td>
<td>825</td>
<td>793</td>
<td>753</td>
<td>704</td>
<td>647</td>
<td>581</td>
<td>508</td>
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<tr>
<td>Medium</td>
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<tr>
<td>Corrected ESP</td>
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<td>1087</td>
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<td>997</td>
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<tr>
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<td>1233</td>
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<td>1005</td>
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#### Corrected ESP

1 ESP estimate with wet coil and filter