

**BH17NA  
2-STAGE HEAT PUMP WITH PURON® REFRIGERANT  
2 TO 5 TONS**



## Product Data



NOTE: Ratings contained in this document are subject to change at any time. Always refer to the AHRI directory ([www.ahridirectory.org](http://www.ahridirectory.org)) for the most up-to-date ratings information.

### INDUSTRY LEADING FEATURES / BENEFITS

#### Efficiency

- Up to 17.0 SEER / Up to 13.0 EER / Up to 9.5 HSPF
- Microtube Technology™ refrigeration system
- Indoor air quality accessories available

#### Comfort

- System supports Thermidistat™ or standard 2-stage thermostat controls

#### Reliability

- Non-ozone depleting Puron® refrigerant -
- Front-seating service valves
- 2-stage scroll compressor
- Internal pressure relief valve
- Internal thermal overload
- Low pressure switch
- High pressure switch
- Filter drier
- Balanced refrigeration system for maximum reliability

#### Durability

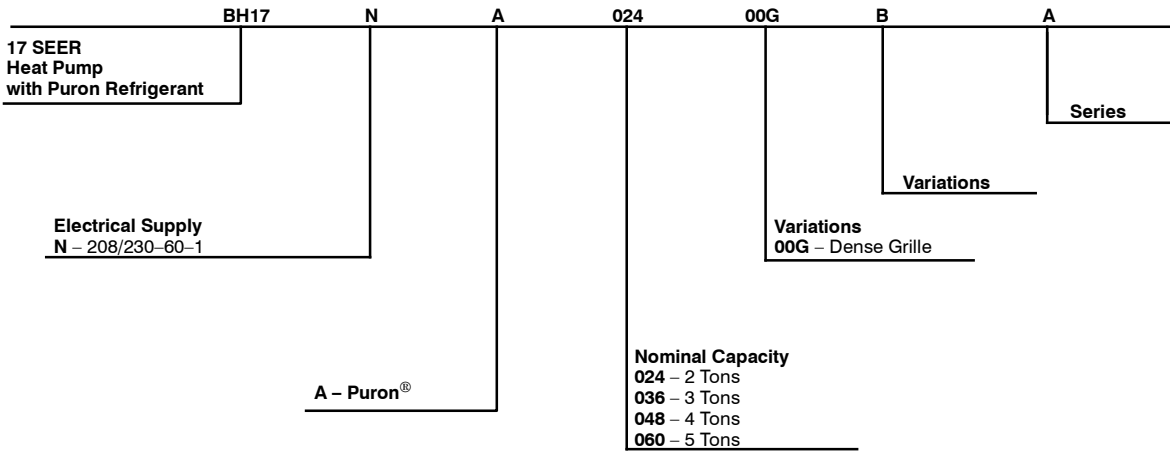
DuraGuard™ protection package:

- Solid, Durable sheet metal construction
- Steel dense wire coil guard

#### Applications

- Long-line - up to 250 feet (76.2 m) total equivalent length, up to 200 feet (60.96 m) condenser above evaporator, or up to 80 ft. (24.38 m) evaporator above condenser (See Longline Guide for more information.)
- Low ambient cooling (down to 0°F / -17.8°C ) with approved low ambient accessory kits.

## PRODUCT NUMBER NOMENCLATURE



Use of the AHRI Certified TM Mark indicates a manufacturer's participation in the program. For verification of certification for individual products, go to [www.ahridirectory.org](http://www.ahridirectory.org).



ISO 9001  
QMI-SAI Global



This product has been designed and manufactured to meet Energy Star® criteria for energy efficiency when matched with appropriate coil components. However, proper refrigerant charge and proper air flow are critical to achieve rated capacity and efficiency. Installation of this product should follow all manufacturing refrigerant charging and air flow instructions. **Failure to confirm proper charge and air flow may reduce energy efficiency and shorten equipment life.**

## STANDARD FEATURES

| FEATURES                                          | Unit Size – Series |         |         |         |
|---------------------------------------------------|--------------------|---------|---------|---------|
|                                                   | 024 – B            | 036 – B | 048 – B | 060 – B |
| Puron Refrigerant                                 | X                  | X       | X       | X       |
| Maximum SEER Rating*                              | 17.0               | 17.0    | 16.0    | 16.0    |
| 2 – Stage Scroll Compressor                       | X                  | X       | X       | X       |
| Low Ambient Cooling Capability with Approved Kits | X                  | X       | X       | X       |
| Field Installed Filter Drier                      | X                  | X       | X       | X       |
| Front Seating Service Valves                      | X                  | X       | X       | X       |
| Internal Pressure Relief Valve                    | X                  | X       | X       | X       |
| Internal Thermal Overload                         | X                  | X       | X       | X       |
| Long Line capability                              | X                  | X       | X       | X       |
| Low Pressure Switch                               | X                  | X       | X       | X       |
| High Pressure Switch                              | X                  | X       | X       | X       |
| Crankcase Heater w/Temperature Switch             | O                  | O       | X       | X       |

X = Standard O = Accessory

\* With approved combinations

## VAPOR LINE SIZING AND COOLING CAPACITY LOSS

Acceptable vapor line diameters provide adequate oil return to the compressor while avoiding excessive capacity loss. The suction line diameters shown in the chart below are acceptable for HP systems with Puron refrigerant:

| Unit<br>Nominal Size<br>(Btuh)  | Maximum<br>Liquid Line<br>Diameters<br>(In. OD) | Vapor Line<br>Diameters<br>(In.) OD | Cooling Capacity Loss (%)<br>Total Equivalent Line Length ft. (m) |                      |                                            |                        |                        |                        |                        |                        |                        |
|---------------------------------|-------------------------------------------------|-------------------------------------|-------------------------------------------------------------------|----------------------|--------------------------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|------------------------|
|                                 |                                                 |                                     | Standard<br>Application                                           |                      | Long Line Application Requires Accessories |                        |                        |                        |                        |                        |                        |
|                                 |                                                 |                                     | 26–50<br>(7.9–15.2)                                               | 51–80<br>(15.5–24.4) | 81–100<br>(24.7–30.5)                      | 101–125<br>(30.8–38.1) | 126–150<br>(38.4–45.7) | 151–175<br>(46.0–50.3) | 176–200<br>(53.6–60.0) | 201–225<br>(61.3–68.6) | 226–250<br>(68.9–76.2) |
| 24,000 2–Stage<br>HP with Puron | 3/8                                             | 5/8                                 | 0                                                                 | 1                    | 1                                          | 2                      | 3                      | 3                      | 4                      | 4                      | 5                      |
|                                 |                                                 | 3/4                                 | 0                                                                 | 1                    | 1                                          | 1                      | 1                      | 1                      | 1                      | 1                      | 1                      |
| 36,000 2–Stage<br>HP with Puron | 3/8                                             | 5/8                                 | 1                                                                 | 2                    | 4                                          | 5                      | 6                      | 7                      | 9                      | 10                     | 11                     |
|                                 |                                                 | 3/4                                 | 0                                                                 | 0                    | 1                                          | 1                      | 2                      | 2                      | 3                      | 3                      | 4                      |
|                                 |                                                 | 7/8                                 | 0                                                                 | 0                    | —                                          | —                      | —                      | —                      | —                      | —                      | —                      |
| 48,000 2–Stage<br>HP with Puron | 3/8                                             | 3/4                                 | 1                                                                 | 2                    | 2                                          | 3                      | 4                      | 5                      | 6                      | 7                      | 7                      |
|                                 |                                                 | 7/8                                 | 0                                                                 | 1                    | 1                                          | 2                      | 2                      | 2                      | 3                      | 3                      | 4                      |
|                                 |                                                 | 1–1/8                               | 0                                                                 | 0                    | —                                          | —                      | —                      | —                      | —                      | —                      | —                      |
| 60,000 2–Stage<br>HP with Puron | 3/8                                             | 3/4                                 | 1                                                                 | 2                    | 4                                          | 5                      | 6                      | 8                      | 9                      | 10                     | 11                     |
|                                 |                                                 | 7/8                                 | 0                                                                 | 1                    | 2                                          | 2                      | 3                      | 4                      | 4                      | 5                      | 5                      |
|                                 |                                                 | 1–1/8                               | 0                                                                 | 0                    | —                                          | —                      | —                      | —                      | —                      | —                      | —                      |

Standard Length = 80 ft. (24.4 m) or less total equivalent length

Applications in this area are long line. Accessories are required as shown recommended on Long Line Application Guidelines

Applications in this area may have height restrictions that limit allowable total equivalent length, when outdoor unit is below indoor unit.

— Applications in this area are not recommended due to insufficient oil return.

## REFRIGERANT PIPING LENGTH LIMITATIONS

**Maximum Line Lengths:** The maximum allowable total equivalent length for heat pumps varies depending on the vertical separation. See the tables below for allowable lengths depending on whether the outdoor unit is on the same level, above or below the outdoor unit.

### Maximum Line Lengths for Heat Pump Applications

|                                   | MAXIMUM ACTUAL LENGTH<br>ft (m)                                             | MAXIMUM EQUIVALENT LENGTH†<br>ft (m) | MAXIMUM VERTICAL SEPARA-<br>TION ft (m) |
|-----------------------------------|-----------------------------------------------------------------------------|--------------------------------------|-----------------------------------------|
| Units on equal level              | 200 (61)                                                                    | 250 (76.2)                           | N/A                                     |
| Outdoor unit ABOVE<br>indoor unit | 200 (61)                                                                    | 250 (76.2)                           | 200 (61)                                |
| Outdoor unit BELOW<br>indoor unit | See Table 'Maximum Total Equivalent Length: Outdoor Unit BELOW Indoor Unit' |                                      |                                         |

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

### Maximum Total Equivalent Length† - Outdoor Unit BELOW Indoor Unit

| Size | Liquid Line<br>Diameter<br>w/ TXV | HP with Puron Refrigerant – Maximum Total Equivalent Length†<br>Vertical Separation ft (m) Outdoor unit BELOW indoor unit; |                      |                       |                        |                        |                        |                        |
|------|-----------------------------------|----------------------------------------------------------------------------------------------------------------------------|----------------------|-----------------------|------------------------|------------------------|------------------------|------------------------|
|      |                                   | 0–20<br>(0 – 6.1)                                                                                                          | 21–30<br>(6.4 – 9.1) | 31–40<br>(9.4 – 12.2) | 41–50<br>(12.5 – 15.2) | 51–60<br>(15.5 – 18.3) | 61–70<br>(18.6 – 21.3) | 71–80<br>(21.6 – 24.4) |
| 024  | 3/8                               | 250*                                                                                                                       | 250*                 | 250*                  | 250*                   | 250*                   | 250*                   | 250*                   |
| 036  | 3/8                               | 250*                                                                                                                       | 250*                 | 250*                  | 250*                   | 250*                   | 250*                   | 250*                   |
| 048  | 3/8                               | 250*                                                                                                                       | 250*                 | 250*                  | 250*                   | 230                    | 160                    | --                     |
| 060  | 3/8                               | 250*                                                                                                                       | 225*                 | 190                   | 150                    | 110                    | --                     | --                     |

\* Maximum actual length not to exceed 200 ft (61 m)

† Total equivalent length accounts for losses due to elbows or fitting. See the Long Line Guideline for details.

-- = outside acceptable range

## LONG LINE APPLICATIONS

An application is considered Long Line when the refrigerant level in the system requires the use of accessories to maintain acceptable refrigerant management for systems reliability. Defining a system as long line depends on the liquid line diameter, actual length of the tubing, and vertical separation between the indoor and outdoor units.

For Heat Pump systems, the chart below shows when an application is considered Long Line. Beyond these lengths, long line accessories are required:

### HP WITH PURON REFRIGERANT LONG LINE DESCRIPTION ft (m) Beyond these lengths, long line accessories are required

| Liquid Line Size | Units On Same Level | Outdoor Below Indoor                 | Outdoor Above Indoor |
|------------------|---------------------|--------------------------------------|----------------------|
| 3/8              | 80 (24.4)           | 20 (6.1) vertical or 80 (24.4) total | 80 (24.4)            |

**Note:** See Long Line Guideline for details

## PHYSICAL DATA

| UNIT SIZE – VOLTAGE, SERIES       | 24 – B                       | 36 – B       | 48 – B       | 60 – B       |
|-----------------------------------|------------------------------|--------------|--------------|--------------|
| <b>Compressor Type</b>            | Ultratech® Scroll            |              |              |              |
| <b>REFRIGERANT</b>                | Puron® (R-410A)              |              |              |              |
| Control                           | TXV (Puron® Hard Shutoff)    |              |              |              |
| Charge lb (kg)                    | 13.07 (5.93)                 | 13.70 (6.21) | 13.73 (6.23) | 14.78 (6.70) |
| Outdoor Htg Piston #              | 46                           | 55           | 61           | 67           |
| <b>COND FAN</b>                   | Propeller Type, Direct Drive |              |              |              |
| Air Discharge                     | Vertical                     |              |              |              |
| Air Qty (CFM)                     | 3200                         | 3200         | 4350         | 5000         |
| Motor HP                          | 1/12                         | 1/12         | 1/4          | 1/4          |
| Motor RPM                         | 800                          | 800          | 825          | 825          |
| <b>COND COIL</b>                  |                              |              |              |              |
| Face Area (Sq ft)                 | 25.15                        | 25.15        | 25.15        | 30.18        |
| Fins per In.                      | 20                           | 20           | 20           | 20           |
| Rows                              | 2                            | 2            | 2            | 2            |
| Circuits                          | 8                            | 8            | 8            | 10           |
| <b>VALVE CONNECT. (In. ID)</b>    |                              |              |              |              |
| Vapor                             | 3/4                          | 7/8          | 1-1/8        | 1-1/8        |
| Liquid                            | 3/8                          | 3/8          | 3/8          | 3/8          |
| <b>REFRIGERANT TUBES (In. OD)</b> |                              |              |              |              |
| Rated Vapor*                      | 3/4                          | 7/8          | 1-1/8        | 1-1/8        |
| Max Liquid Line †                 | 3/8                          |              |              |              |

\* Units are rated with 25 ft (7.6 m) of lineset length. See Vapor Line Sizing and Cooling Capacity Loss table when using other sizes and lengths of lineset.

**Note:** See unit Installation Instruction for proper installation.

† See *Liquid Line Sizing For Cooling Only Systems with Puron Refrigerant* tables.

## ELECTRICAL DATA

| UNIT SIZE – SERIES | V/PH      | OPER VOLTS* |     | COMPR |       | FAN  | MCA  | MAX FUSE† or<br>CKT BRK AMPS |
|--------------------|-----------|-------------|-----|-------|-------|------|------|------------------------------|
|                    |           | MAX         | MIN | LRA   | RLA   | FLA  |      |                              |
| 024 – B            | 208–230/1 | 253         | 197 | 58.3  | 12.50 | 0.60 | 16.2 | 25                           |
| 036 – B            |           |             |     | 83.0  | 18.50 | 0.60 | 23.7 | 40                           |
| 048 – B            |           |             |     | 104.0 | 22.80 | 1.30 | 29.8 | 50                           |
| 060 – B            |           |             |     | 152.9 | 28.80 | 1.30 | 37.5 | 60                           |

\* Permissible limits of the voltage range at which the unit will operate satisfactorily

† Time – Delay fuse.

**FLA** – Full Load Amps

**LRA** – Locked Rotor Amps

**MCA** – Minimum Circuit Amps

**RLA** – Rated Load Amps

**NOTE:** Control circuit is 24V on all units and requires external power source. Copper wire must be used from service disconnect to unit.

All motors/compressors contain internal overload protection.

Complies with 2010 requirements of ASHRAE Standards 90.1

## A-WEIGHTED SOUND POWER LEVEL (dBA)

| Unit Size | Standard Rating (dBA) | TYPICAL OCTAVE BAND SPECTRUM<br>(dB, without tone adjustment) |      |      |      |      |      |      |
|-----------|-----------------------|---------------------------------------------------------------|------|------|------|------|------|------|
|           |                       | 125                                                           | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 024 – B   | 73 – High Stage       | 51.5                                                          | 55.0 | 63.5 | 69.0 | 62.0 | 58.5 | 56.0 |
|           | 70 – Low Stage        | 51.5                                                          | 55.5 | 63.0 | 66.0 | 62.0 | 59.0 | 54.0 |
| 036 – B   | 74 – High Stage       | 54.5                                                          | 57.5 | 65.0 | 70.5 | 62.5 | 60.0 | 57.0 |
|           | 71 – Low Stage        | 54.0                                                          | 57.5 | 63.5 | 66.0 | 61.0 | 60.5 | 55.0 |
| 048 – B   | 75 – High Stage       | 53.5                                                          | 59.5 | 66.0 | 70.5 | 64.0 | 61.5 | 55.0 |
|           | 71 – Low Stage        | 54.0                                                          | 59.5 | 66.0 | 66.0 | 63.0 | 61.5 | 55.5 |
| 060 – B   | 74 – High Stage       | 51.5                                                          | 58.0 | 66.0 | 68.0 | 64.5 | 63.0 | 61.5 |
|           | 73 – Low Stage        | 53.0                                                          | 58.5 | 66.5 | 68.0 | 64.5 | 63.0 | 58.5 |

**NOTE:** Tested in accordance with AHRI Standard 270–2008. (Not listed with AHRI).

## A-WEIGHTED SOUND POWER LEVEL (dBA) WITH SOUND SHIELD

| Unit Size | Standard Rating (dBA) | TYPICAL OCTAVE BAND SPECTRUM<br>(dB, without tone adjustment) |      |      |      |      |      |      |
|-----------|-----------------------|---------------------------------------------------------------|------|------|------|------|------|------|
|           |                       | 125                                                           | 250  | 500  | 1000 | 2000 | 4000 | 8000 |
| 024 – B   | 71 – High Stage       | 50.0                                                          | 55.0 | 63.0 | 68.0 | 61.5 | 57.5 | 52.0 |
|           | 70 – Low Stage        | 50.5                                                          | 56.0 | 63.0 | 66.0 | 61.5 | 58.0 | 51.5 |
| 036 – B   | 72 – High Stage       | 54.5                                                          | 57.0 | 64.5 | 69.0 | 61.5 | 58.5 | 53.0 |
|           | 70 – Low Stage        | 55.5                                                          | 56.5 | 63.0 | 65.0 | 60.5 | 59.0 | 52.0 |
| 048 – B   | 74 – High Stage       | 54.0                                                          | 59.5 | 66.0 | 70.0 | 63.0 | 59.0 | 51.5 |
|           | 70 – Low Stage        | 53.5                                                          | 59.0 | 65.5 | 65.0 | 62.5 | 60.5 | 54.0 |
| 060 – B   | 73 – High Stage       | 52.0                                                          | 58.5 | 66.0 | 68.0 | 64.0 | 60.5 | 56.5 |
|           | 72 – Low Stage        | 54.0                                                          | 58.0 | 66.0 | 67.5 | 64.0 | 61.0 | 55.0 |

**NOTE:** Tested in accordance with AHRI Standard 270–2008. (Not listed with AHRI).

## CHARGING SUBCOOLING (TXV-TYPE EXPANSION DEVICE)

| UNIT SIZE – VOLTAGE, SERIES | REQUIRED SUBCOOLING °F (°C) |
|-----------------------------|-----------------------------|
| 24 – B                      | 10 (5.6)                    |
| 36 – B                      | 13 (7.2)                    |
| 48 – B                      | 12 (6.7)                    |
| 60 – B                      | 11 (6.1)                    |

## THERMOSTATS

| Part Number | Description                                                | Capabilities |          |           | Heat Stages | Cool Stages |
|-------------|------------------------------------------------------------|--------------|----------|-----------|-------------|-------------|
|             |                                                            | Gas          | Electric | Heat Pump |             |             |
| T6–WEM01    | Housewise™ Wi-Fi Programmable Relative Humidity Thermostat | ✓            | ✓        | ✓         | 4           | 2           |
| T6–PRH01–A  | Programmable Relative Humidity Thermostat                  | ✓            | ✓        | ✓         | 3           | 2           |
| T6–PHP01    | Programmable Thermostat (HP or AC)                         |              | ✓        | ✓         | 3           | 2           |
| T6–NRH01–A  | Non–Programmable Relative Humidity Thermostat              | ✓            | ✓        | ✓         | 3           | 2           |
| T6–NHP01    | Non–Programmable Thermostat (HP or AC)                     |              | ✓        | ✓         | 3           | 2           |
| T2–WHS01    | Wi-Fi® Programmable                                        | ✓            | ✓        | ✓         | 3           | 2           |
| T2–PHP01    | 5–2 Day Programmable Thermostat                            |              | ✓        | ✓         | 3           | 2           |
| T2–NHP01    | Non–Programmable Thermostat (HP or AC)                     |              | ✓        | ✓         | 3           | 2           |
| T2SNHP01    | Non–Programmable Thermostat (HP or AC)                     |              | ✓        | ✓         | 2           | 1           |

| Thermostat Accessories |                                                   |                                 |
|------------------------|---------------------------------------------------|---------------------------------|
| Part Number            | Description                                       | Used With                       |
| T6–EXP01–A             | ExP® Computer Programming Accessory               | T6–P thermostats                |
| TSTATXXCNV10           | Thermostat Conversion Kit (4 to 5 wire) – 10 pack | All Bryant® branded thermostats |
| TX–LBP01               | Large Decorative Backplate                        | T6–Pxx, T6–Nxx, and T2–Pxx      |
| TX–MBP01               | Medium Decorative Backplate                       | T2–Nxx                          |
| TSTATXXSEN01–B         | Outdoor Air Temperature Sensor                    | All T6– thermostats             |

## ACCESSORIES

| ACCESSORY NUMBER | DESCRIPTION       | Unit Size – Series |                |
|------------------|-------------------|--------------------|----------------|
|                  |                   | 024–B<br>036–B     | 048–B<br>060–B |
| KAABH1701AAA     | CRANKCASE HEATER  | X                  |                |
| KHALS0401LLS     | SOLENOID VALVE    | X                  | X              |
| KAAWS0101AAA     | WINTER START KIT  | X                  | X              |
| KSAFT0101AAA     | FREEZE THERMOSTAT | X                  | X              |
| KSAHS2501AAA     | HARD START KIT    | X                  |                |
| KSAHS2801AAA     | HARD START KIT    |                    | X              |
| KSALA0301410     | LOW AMBIENT KIT   | X                  | X              |
| KSASF0201AAA     | SUPPORT FEET      | X                  | X              |
| KSASH2301COP     | SOUND BLKT        | X                  |                |
| KSASH2401COP     | SOUND BLKT        |                    | X              |

# ACCESSORY USAGE GUIDELINE

| Accessory                                   | Required for Low Ambient Cooling Applications (Below 55° F / 12.8° C) | Required for Long Line Applications*             | Required for Sea Coast Applications (within 2 miles/3.2 km) |
|---------------------------------------------|-----------------------------------------------------------------------|--------------------------------------------------|-------------------------------------------------------------|
| Compressor Start Assist Capacitor and Relay | Yes                                                                   | Yes                                              | No                                                          |
| Crankcase Heater                            | Yes (standard)                                                        | Yes (standard)                                   | No                                                          |
| Evaporator Freeze Thermostat                | Yes                                                                   | No                                               | No                                                          |
| Hard Shutoff TXV                            | Yes<br>(standard w/factory approved indoor unit)                      | Yes<br>(standard w/factory approved indoor unit) | Yes<br>(standard w/factory approved indoor unit)            |
| Isolation Relay                             | Yes                                                                   | No                                               | No                                                          |
| Liquid Line Solenoid Valve                  | No                                                                    | See Residential Piping and Long Line Guideline   | No                                                          |
| Low-Ambient Pressure Switch                 | Yes                                                                   | No                                               | No                                                          |
| Support Feet                                | Recommended                                                           | No                                               | Recommended                                                 |

\* For tubing line sets between 80 and 200 ft. (24.38 and 60.96 m) and/or 20 ft. (6.09 m) vertical differential, refer to Residential Piping and Longline Guideline.

## Accessory Description and Usage (Listed Alphabetically)

### 1. Compressor Start Assist - Capacitor and Relay

Start capacitor and relay gives a “hard” boost to compressor motor at each start up.

Usage Guideline:

Required for 2-stage non-communicating units in the following applications:

Long line

Low ambient cooling

Suggested for all compressors in areas with a history of low voltage problems.

### 2. Crankcase Heater

An electric resistance heater which mounts to the base of the compressor to keep the lubricant warm during off cycles. Improves compressor lubrication on restart and minimizes the chance of liquid slugging.

Usage Guideline:

Required in low ambient cooling applications.

Required in long line applications.

Suggested in all commercial applications.

### 3. Evaporator Freeze Thermostat

An SPST temperature-actuated switch that stops unit operation when evaporator reaches freeze-up conditions.

Usage Guideline:

Required when low ambient kit has been added.

### 4. Isolation Relay

An SPDT relay which switches the low ambient controller out of the outdoor fan motor circuit when the heat pump switches to heating mode.

Usage Guideline:

Required in all heat pumps where low ambient kit has been added.

### 5. Low-Ambient Pressure Switch

A long life pressure switch which is mounted to outdoor unit service valve. It is designed to cycle the outdoor fan motor in order to maintain head pressure within normal operating limits. The control will maintain working head pressure at low-ambient temperatures down to -10°F (-23°C) when properly installed.

Usage Guideline:

A Low-Ambient Pressure Switch must be used when cooling operation is used at outdoor temperatures below 55°F (12.8°C).

### 6. Liquid-Line Solenoid Valve (LLS)

An electrically operated shutoff valve which stops and starts refrigerant liquid flow in response to compressor operation. It is to be installed at the outdoor unit to control refrigerant off cycle migration in the heating mode.

Usage Guideline:

An LLS is required in all long line heat pump applications to control refrigerant off cycle migration in the heating mode. See Long Line Guideline.

Suggested for all commercial applications.

### 7. Outdoor Air Temperature Sensor

Designed for use with Payne Thermostats listed in this publication. This device enables the thermostat to display the outdoor temperature. This device also is required to enable special thermostat features such as auxiliary heat lock out.

Usage Guideline:

Suggested for all Payne thermostats listed in this publication.

### 8. Outdoor Thermostat

An SPDT temperature-actuated switch which turns on supplemental electric heaters when outdoor air temperature drops below a user-selected set point.

Usage Guideline:

Electric supplemental heat applications in non-variable speed indoor units when electric heat staging is desired.

### 9. Secondary Outdoor Thermostat

An SPDT temperature-actuated switch which turns on third-stage of supplemental electric heaters when outdoor air temperature drops below the second-stage set point.

Usage Guideline:

Outdoor thermostat applications where electric heater is capable of three-stage operation.

### 10. Snow Stand

Coated wire rack which supports unit 18 in. (457.2 mm) above mounting pad to allow for drainage from unit base.

Usage Guideline:

Suggested in the following applications:

Heat pump installations in heavy snowfall areas.

Heat pump installations in snow drift locations.

Heat pump installations in areas of prolonged subfreezing temperatures.

All commercial installations.

### 11. Support Feet

Four stick-on plastic feet that raise the unit 4 in. (101.6 mm) above the mounting pad. This allows sand, dirt, and other debris to be flushed from the unit base, minimizing corrosion.

Usage Guideline:

Suggested in the following applications:

Coastal installations.

Windy areas or where debris is normally circulating.

Rooftop installations.

### 12. Thermostatic Expansion Valve (TXV) Bi-Flow

A modulating flow-control valve which meters refrigerant liquid flow rate into the evaporator in response to the superheat of the refrigerant gas leaving the evaporator.

Usage Guideline:

Accessory required to meet AHRI rating and system reliability, where indoor not equipped.

Required in all heat pump applications designed with Puron refrigerant.

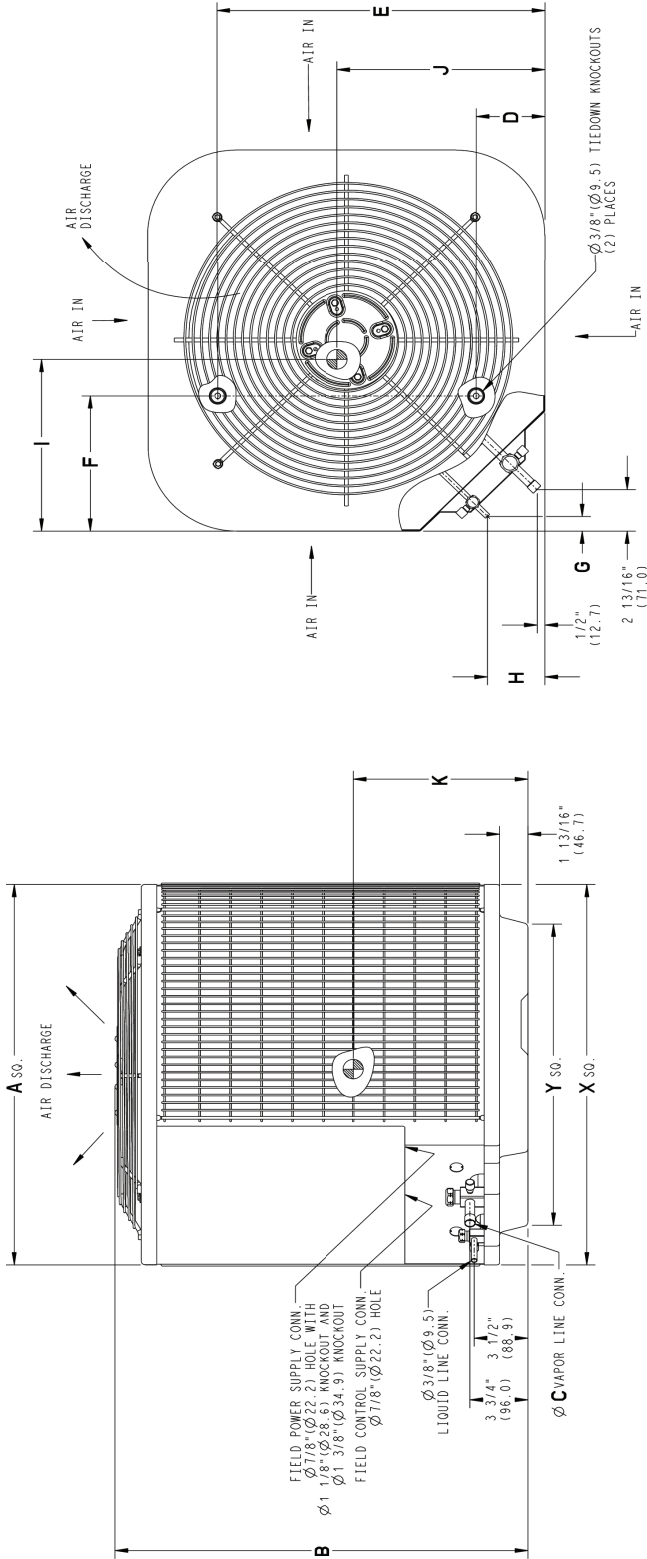
DIMENSIONS

| UNIT | SERIES | A    |    |      | B    |       |    | C     |        |      | D    |        |       | E    |      |       | F    |      |       | G     |      |         | H    |      |     | I     |    |       | J     |       |       | K     |       |       | OPERATING WEIGHT |       | SHIPPING LENGTH / WIDTH (Sq.) |       | SHIPPING HEIGHT |        |        |
|------|--------|------|----|------|------|-------|----|-------|--------|------|------|--------|-------|------|------|-------|------|------|-------|-------|------|---------|------|------|-----|-------|----|-------|-------|-------|-------|-------|-------|-------|------------------|-------|-------------------------------|-------|-----------------|--------|--------|
|      |        | INCH |    | MM   | INCH |       | MM | INCH  |        | MM   | INCH |        | MM    | INCH |      | MM    | INCH |      | MM    | INCH  |      | MM      | INCH |      | MM  | INCH  |    | MM    | Lbs   |       | Kgs   | INCH  |       | MM    | INCH             |       | MM                            |       |                 |        |        |
|      |        | INCH | MM | INCH | MM   | INCH  | MM | INCH  | MM     | INCH | MM   | INCH   | MM    | INCH | MM   | INCH  | MM   | INCH | MM    | INCH  | MM   | INCH    | MM   | INCH | MM  | INCH  | MM | INCH  | MM    | Lbs   | Kgs   | INCH  | MM    | INCH  | MM               |       |                               |       |                 |        |        |
| B    | Y      | N    | N  | N    | 35   | 889.0 | 38 | 7/8   | 987.8  | 3/4  | 19.1 | 6 9/16 | 166.1 | 28   | 7/16 | 722.8 | 9    | 1/8  | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 17   | 1/4 | 431.8 | 16 | 406.4 | 19    | 482.6 | 233   | 105.7 | 256   | 116.1 | 36               | 914.9 | 40                            | 9/16  | 1030.4          |        |        |
| B    | Y      | N    | N  | N    | 35   | 889.0 | 38 | 7/8   | 987.8  | 7/8  | 22.2 | 6 9/16 | 166.1 | 28   | 7/16 | 722.8 | 9    | 1/8  | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 17   | 1/4 | 438.2 | 16 | 406.4 | 17    | 1/4   | 438.2 | 245   | 111.1 | 270   | 122.5            | 36    | 914.9                         | 40    | 9/16            | 1030.4 |        |
| B    | Y      | N    | N  | N    | 35   | 889.0 | 38 | 7/8   | 987.8  | 7/8  | 22.2 | 6 9/16 | 166.1 | 28   | 7/16 | 722.8 | 9    | 1/8  | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 17   | 1/4 | 438.2 | 16 | 3/4   | 425.5 | 17    | 1/2   | 444.2 | 271   | 122.9 | 298              | 135.2 | 36                            | 914.9 | 40              | 9/16   | 1030.4 |
| B    | Y      | N    | N  | N    | 35   | 889.0 | 45 | 11/16 | 1160.5 | 7/8  | 22.2 | 6 9/16 | 166.1 | 28   | 7/16 | 722.8 | 9    | 1/8  | 231.3 | 1 1/8 | 28.2 | 3 13/16 | 97.4 | 18   | 3/4 | 476.3 | 18 | 3/4   | 463.6 | 19    | 482.6 | 294   | 133.4 | 323   | 146.5            | 36    | 914.9                         | 47    | 3/8             | 1203.2 |        |

Y=YES  
N=NO

NOTES:

1. CENTER OF GRAVITY



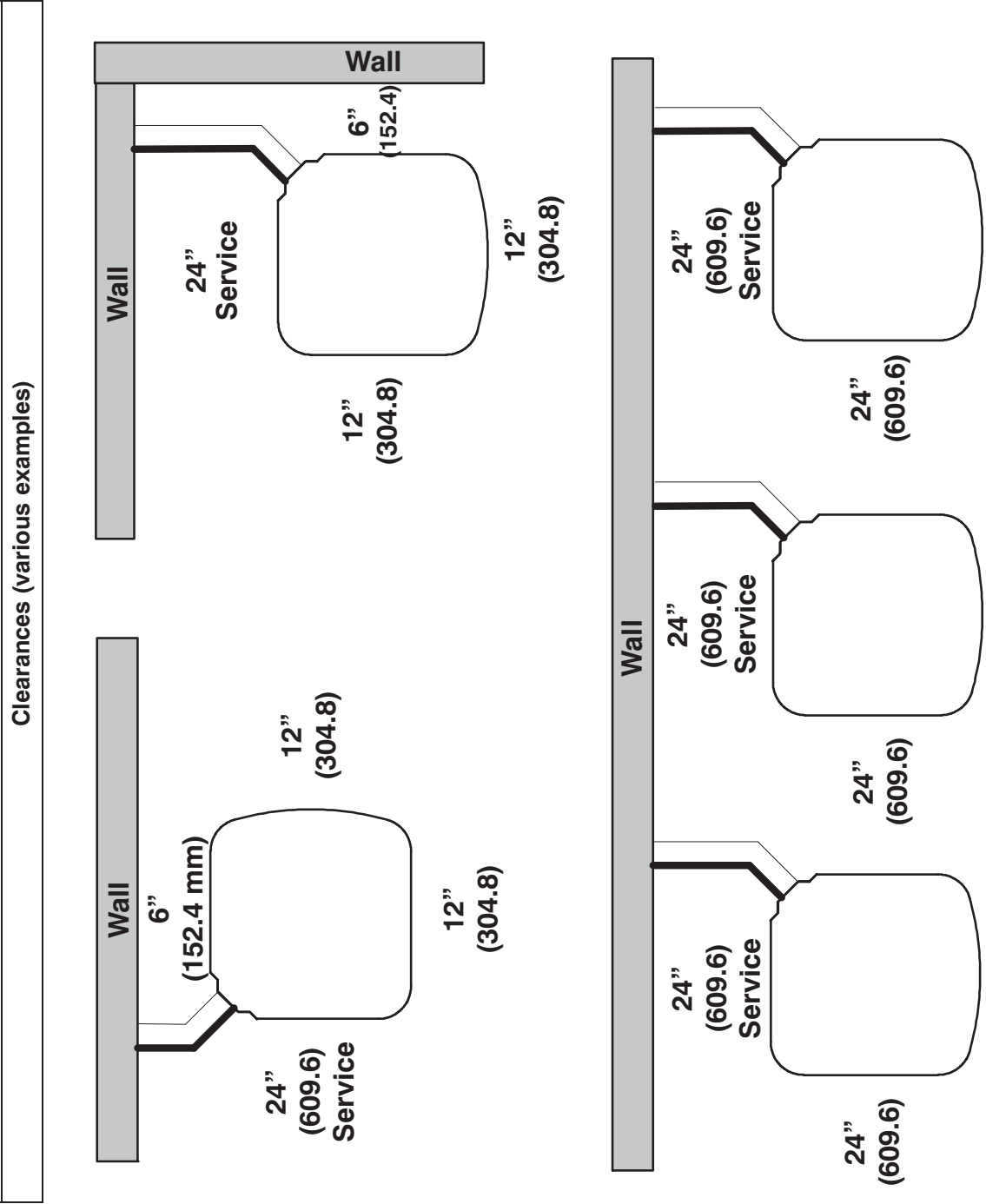
| UNIT SIZE   | "X"                                                |      |       | "Y"                                                  |       |       |
|-------------|----------------------------------------------------|------|-------|------------------------------------------------------|-------|-------|
|             | MINIMUM GROUND MOUNTING PAD APPLICATION DIMENSIONS |      |       | MINIMUM ROOF-TOP MOUNTING PAD APPLICATION DIMENSIONS |       |       |
| -           | 23                                                 | 1/8  | 587.3 | 17                                                   | 7/8   | 454.6 |
| -           | 25                                                 | 3/4  | 654.0 | 20                                                   | 7/16  | 518.5 |
| -           | 31                                                 | 3/16 | 792.5 | 22                                                   | 15/16 | 583.2 |
| 24,36,48,60 | 35                                                 |      | 889.0 | 26                                                   | 3/4   | 679.7 |

NOTE: ALL DIMENSIONS IN INCH (MM)

U.S. ECCN: Not Subject to Regulation (N.S.R.)

SD574-4 REV. B

CLEARANCES

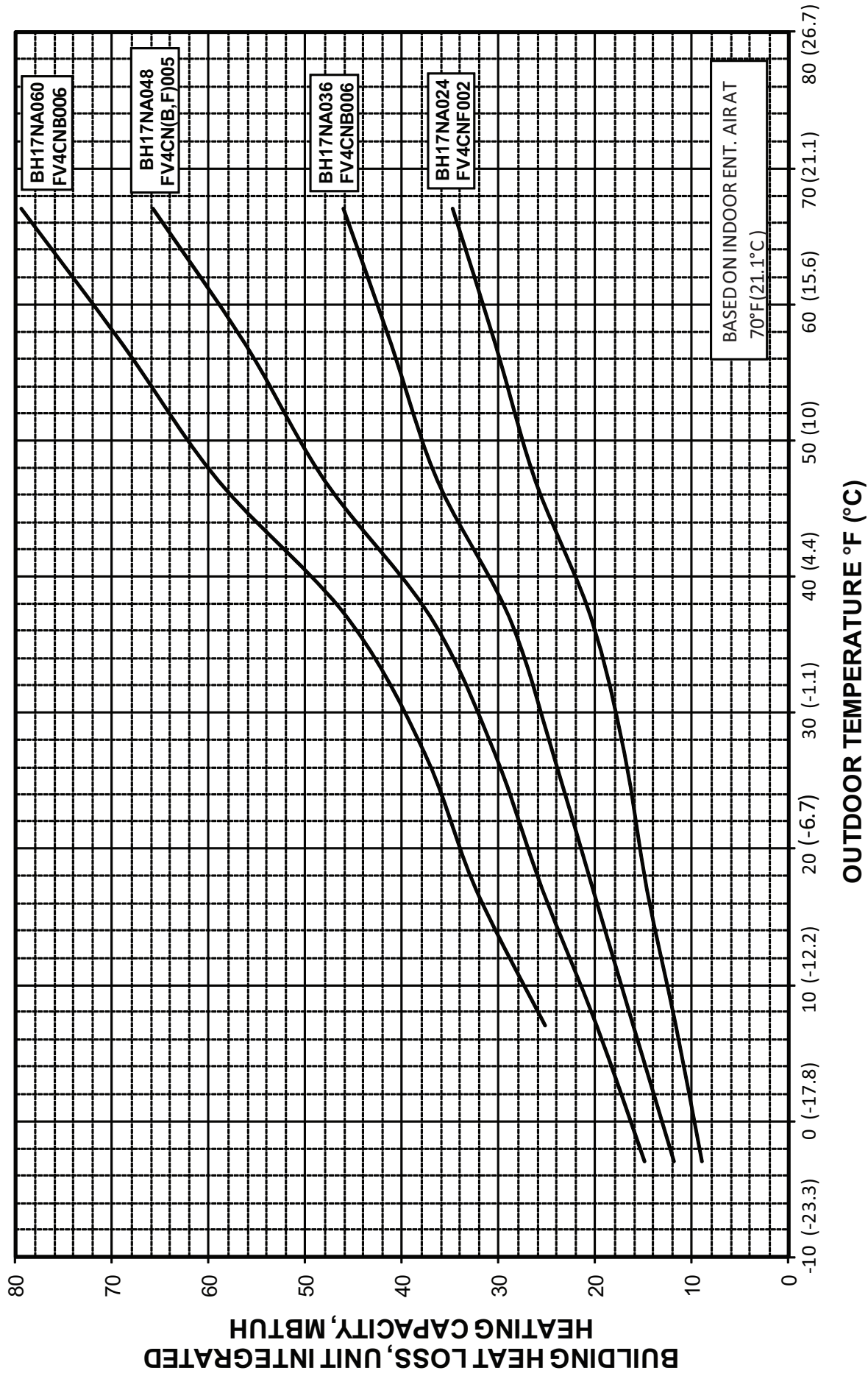


**Note:** Numbers in ( ) = mm

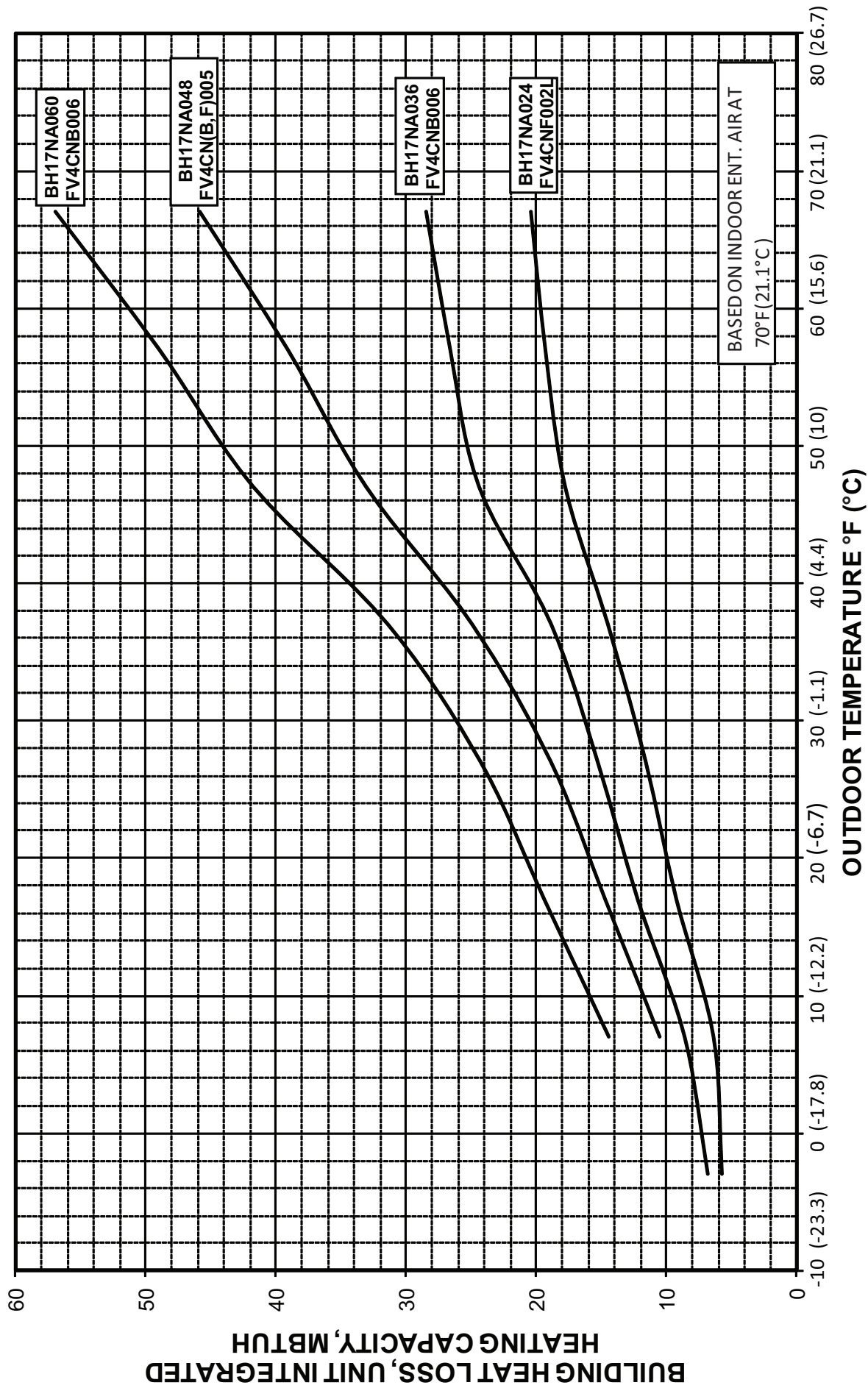
**IMPORTANT:** When installing multiple units in an alcove, roof well, or partially enclosed area, ensure there is adequate ventilation to prevent re-circulation of discharge air.



**BALANCE POINT WORKSHEET - HIGH STAGE**



**BALANCE POINT WORKSHEET - LOW STAGE**



# TESTED AHRI COMBINATION RATINGS

**NOTE:** Ratings contained in this document are subject to change at any time.

For AHRI ratings certificates, please refer to the AHRI directory [www.ahridirectory.org](http://www.ahridirectory.org)

Additional ratings and system combinations can be accessed via the Bryant database at: [www.MyBryantRatings.com](http://www.MyBryantRatings.com)

For performance data at specific application &/or design conditions with various indoor unit combinations, the equipment performance calculator can be accessed at : <http://rpmobbry.wrightsoft.com/>

| Model Number | Indoor Model  | Cooling Capacity | COOLING |      |         |      | HEATING             |      |      |                      |      |
|--------------|---------------|------------------|---------|------|---------|------|---------------------|------|------|----------------------|------|
|              |               |                  | EER     | SEER | ID SCFM |      | HIGH TEMP           |      | HSPF | LOW TEMP             |      |
|              |               |                  |         |      | HIGH    | LOW  | Capacity 47°F (8°C) | COP  |      | Capacity 17°F (-8°C) | COP  |
| BH17NA024-B  | FV4CNF002L    | 24000            | 13.0    | 17   | 700     | 560  | 25000               | 3.90 | 7.60 | 15300                | 2.74 |
| BH17NA036-B  | FV4CNB006     | 36400            | 13.0    | 17   | 1050    | 840  | 35400               | 4.06 | 8.40 | 22600                | 3.00 |
| BH17NA048-B  | FV4CN(B,F)005 | 47000            | 12.5    | 16   | 1400    | 1120 | 46500               | 3.67 | 7.65 | 29200                | 2.72 |
| BH17NA060-B  | FV4CNB006     | 56500            | 12.5    | 16   | 1750    | 1400 | 57000               | 3.72 | 7.80 | 36000                | 2.76 |

**AHRI** — Air Conditioning, Heating & Refrigeration Institute

**EER** — Energy Efficiency Ratio — 80°F (26.6°C) indoor db/67°F (19.4°C) indoor wb & 95°F (35°C) outdoor wb.

**SEER** — Seasonal Energy Efficiency Ratio

**NOTES:**

1. Ratings are net values reflecting the effects of circulating fan motor heat. Supplemental electric heat is not included.
2. Tested outdoor/indoor combinations have been tested in accordance with DOE test procedures for central air conditioners. Ratings for other combinations are determined under DOE computer simulation procedures.
3. Determine actual CFM values obtainable for your system by referring to fan performance data in fan coil or furnace coil literature.
4. Do not apply with capillary tube coils as performance and reliability are affected.

DETAILED COOLING CAPACITIES#

| EVAPORATOR AIR                                                   |                  |                | CONDENSER ENTERING AIR TEMPERATURES ° F (° C) |                |                |                |                |                |                |                |                |                |                |                |                |      |
|------------------------------------------------------------------|------------------|----------------|-----------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|------|
| CFM                                                              | EWB<br>° F (° C) | 75 (23.9)      |                                               | 85 (29.4)      |                | 95 (35)        |                |                | 105 (40.6)     |                |                | 115 (46.1)     |                |                | 125 (51.7)     |      |
|                                                                  |                  | Capacity MBtuh | Total Sys KW**                                | Capacity MBtuh | Total Sys KW** | Capacity MBtuh | Total Sys KW** | Capacity MBtuh | Total Sys KW** | Capacity MBtuh | Total Sys KW** | Capacity MBtuh | Total Sys KW** | Capacity MBtuh | Total Sys KW** |      |
| BH17NA024 – B Outdoor Section With FV4CNF002 Indoor Section – HI |                  |                |                                               |                |                |                |                |                |                |                |                |                |                |                |                |      |
| 600                                                              | 57 (13.9)        | 22.47          | 22.47                                         | 21.26          | 21.26          | 1.60           | 20.00          | 20.00          | 1.81           | 18.69          | 18.69          | 2.06           | 17.34          | 17.34          | 15.96          | 2.72 |
|                                                                  | 62 (16.7)        | 24.04          | 22.54                                         | 19.39          | 19.39          | 1.61           | 20.99          | 18.43          | 1.82           | 19.39          | 17.45          | 2.06           | 17.77          | 16.44          | 16.14          | 2.72 |
|                                                                  | 63 (17.2)††      | 24.52          | 16.88                                         | 16.03          | 16.03          | 1.61           | 21.40          | 15.16          | 1.82           | 19.77          | 14.27          | 2.06           | 18.10          | 13.37          | 16.39          | 2.72 |
|                                                                  | 67 (19.4)        | 26.60          | 17.58                                         | 16.71          | 16.71          | 1.62           | 23.23          | 15.82          | 1.83           | 21.47          | 14.92          | 2.07           | 19.68          | 14.02          | 17.86          | 2.73 |
|                                                                  | 72 (22.2)        | 29.45          | 14.67                                         | 13.88          | 13.88          | 1.64           | 25.73          | 13.07          | 1.84           | 23.80          | 12.26          | 2.09           | 21.84          | 11.45          | 19.84          | 2.74 |
| 650                                                              | 57 (13.9)        | 23.20          | 23.20                                         | 21.94          | 21.94          | 1.61           | 20.62          | 20.62          | 1.82           | 19.26          | 19.26          | 2.07           | 17.86          | 17.86          | 16.42          | 2.73 |
|                                                                  | 62 (16.7)        | 24.52          | 21.24                                         | 20.27          | 20.27          | 1.62           | 21.39          | 19.27          | 1.82           | 19.75          | 18.25          | 2.07           | 18.11          | 17.18          | 16.46          | 2.73 |
|                                                                  | 63 (17.2)††      | 25.01          | 17.53                                         | 16.66          | 16.66          | 1.62           | 21.79          | 15.76          | 1.83           | 20.11          | 14.85          | 2.07           | 18.40          | 13.93          | 16.65          | 2.73 |
|                                                                  | 67 (19.4)        | 27.11          | 18.28                                         | 17.38          | 17.38          | 1.63           | 23.64          | 16.47          | 1.84           | 21.83          | 15.54          | 2.08           | 20.00          | 14.61          | 18.13          | 2.74 |
|                                                                  | 72 (22.2)        | 30.01          | 15.16                                         | 14.35          | 14.35          | 1.65           | 26.17          | 13.52          | 1.85           | 24.19          | 12.70          | 2.10           | 22.17          | 11.86          | 20.13          | 2.74 |
| 700                                                              | 57 (13.9)        | 23.88          | 23.88                                         | 22.56          | 22.56          | 1.62           | 21.20          | 21.20          | 1.83           | 19.78          | 19.78          | 2.08           | 18.33          | 18.33          | 16.84          | 2.74 |
|                                                                  | 62 (16.7)        | 24.95          | 22.13                                         | 21.12          | 21.12          | 1.63           | 21.74          | 20.08          | 1.83           | 20.08          | 19.01          | 2.08           | 18.42          | 18.27          | 16.87          | 2.74 |
|                                                                  | 63 (17.2)††      | 25.44          | 18.16                                         | 17.27          | 17.27          | 1.63           | 22.14          | 16.35          | 1.84           | 20.41          | 15.41          | 2.08           | 18.65          | 14.47          | 16.87          | 2.74 |
|                                                                  | 67 (19.4)        | 27.57          | 18.95                                         | 18.03          | 18.03          | 1.64           | 24.00          | 17.09          | 1.85           | 22.15          | 16.14          | 2.09           | 20.27          | 15.19          | 18.36          | 2.74 |
|                                                                  | 72 (22.2)        | 30.50          | 15.64                                         | 14.80          | 14.80          | 1.65           | 26.55          | 13.96          | 1.86           | 24.52          | 13.11          | 2.10           | 22.46          | 12.24          | 20.38          | 2.75 |
| 800                                                              | 57 (13.9)        | 25.06          | 25.06                                         | 23.66          | 23.66          | 1.64           | 22.20          | 22.20          | 1.85           | 20.69          | 20.69          | 2.09           | 19.15          | 19.15          | 17.57          | 2.75 |
|                                                                  | 62 (16.7)        | 25.69          | 23.81                                         | 22.72          | 22.72          | 1.64           | 22.38          | 21.57          | 1.85           | 20.73          | 20.73          | 2.10           | 19.18          | 19.18          | 17.60          | 2.75 |
|                                                                  | 63 (17.2)††      | 26.15          | 19.37                                         | 18.44          | 18.44          | 1.65           | 22.69          | 17.47          | 1.85           | 20.90          | 16.49          | 2.10           | 19.08          | 15.51          | 17.23          | 2.75 |
|                                                                  | 67 (19.4)        | 28.31          | 20.24                                         | 19.28          | 19.28          | 1.66           | 24.59          | 18.30          | 1.86           | 22.66          | 17.31          | 2.11           | 20.71          | 16.31          | 18.74          | 2.76 |
|                                                                  | 72 (22.2)        | 31.29          | 16.52                                         | 15.64          | 15.64          | 1.67           | 27.18          | 14.75          | 1.87           | 25.08          | 13.85          | 2.12           | 22.94          | 12.95          | 20.79          | 2.77 |
| BH17NA024 – B Outdoor Section With FV4CNF002 Indoor Section – LO |                  |                |                                               |                |                |                |                |                |                |                |                |                |                |                |                |      |
| 480                                                              | 57 (13.9)        | 17.40          | 17.40                                         | 16.19          | 16.19          | 1.19           | 14.92          | 14.92          | 1.39           | 13.64          | 13.64          | 1.62           | 12.37          | 12.37          | 11.13          | 2.20 |
|                                                                  | 62 (16.7)        | 18.34          | 16.19                                         | 15.05          | 15.05          | 1.19           | 15.38          | 13.92          | 1.39           | 13.87          | 12.77          | 1.62           | 12.43          | 12.34          | 11.15          | 2.20 |
|                                                                  | 63 (17.2)††      | 18.71          | 13.35                                         | 12.36          | 12.36          | 1.18           | 15.67          | 11.36          | 1.38           | 14.11          | 10.38          | 1.62           | 12.58          | 9.42           | 11.11          | 2.20 |
|                                                                  | 67 (19.4)        | 20.36          | 13.94                                         | 12.92          | 12.92          | 1.17           | 17.07          | 11.90          | 1.37           | 15.40          | 10.90          | 1.60           | 13.77          | 9.91           | 12.20          | 2.19 |
|                                                                  | 72 (22.2)        | 22.60          | 11.57                                         | 10.66          | 10.66          | 1.15           | 18.96          | 9.76           | 1.35           | 17.13          | 8.89           | 1.59           | 15.35          | 8.03           | 13.64          | 2.19 |
| 520                                                              | 57 (13.9)        | 17.97          | 17.97                                         | 16.71          | 16.71          | 1.19           | 15.39          | 15.39          | 1.39           | 14.05          | 14.05          | 1.62           | 12.74          | 12.74          | 11.45          | 2.20 |
|                                                                  | 62 (16.7)        | 18.72          | 16.93                                         | 15.75          | 15.75          | 1.19           | 15.68          | 14.56          | 1.39           | 14.15          | 13.34          | 1.62           | 12.76          | 12.76          | 11.47          | 2.20 |
|                                                                  | 63 (17.2)††      | 19.08          | 13.89                                         | 12.86          | 12.86          | 1.19           | 15.95          | 11.83          | 1.39           | 14.35          | 10.82          | 1.62           | 12.79          | 9.83           | 11.28          | 2.20 |
|                                                                  | 67 (19.4)        | 20.75          | 14.52                                         | 13.46          | 13.46          | 1.17           | 17.36          | 12.41          | 1.37           | 15.65          | 11.37          | 1.61           | 13.98          | 10.37          | 12.37          | 2.20 |
|                                                                  | 72 (22.2)        | 23.02          | 11.97                                         | 11.04          | 11.04          | 1.15           | 19.27          | 10.11          | 1.35           | 17.40          | 9.21           | 1.59           | 15.58          | 8.32           | 13.83          | 2.19 |
| 560                                                              | 57 (13.9)        | 18.49          | 18.49                                         | 17.17          | 17.17          | 1.19           | 15.81          | 15.81          | 1.39           | 14.43          | 14.43          | 1.62           | 13.07          | 13.07          | 11.74          | 2.21 |
|                                                                  | 62 (16.7)        | 19.05          | 17.65                                         | 16.42          | 16.42          | 1.19           | 15.96          | 15.15          | 1.39           | 14.46          | 14.46          | 1.62           | 13.09          | 13.09          | 11.76          | 2.21 |
|                                                                  | 63 (17.2)††      | 19.40          | 14.41                                         | 13.35          | 13.35          | 1.19           | 16.19          | 12.29          | 1.39           | 14.55          | 11.24          | 1.62           | 12.96          | 10.23          | 11.43          | 2.21 |
|                                                                  | 67 (19.4)        | 21.08          | 15.07                                         | 13.99          | 13.99          | 1.17           | 17.61          | 12.90          | 1.37           | 15.87          | 11.83          | 1.61           | 14.16          | 10.80          | 12.52          | 2.20 |
|                                                                  | 72 (22.2)        | 23.38          | 12.35                                         | 11.41          | 11.41          | 1.15           | 19.54          | 10.45          | 1.35           | 17.63          | 9.50           | 1.59           | 15.78          | 8.60           | 14.00          | 2.20 |
| 640                                                              | 57 (13.9)        | 19.40          | 19.40                                         | 18.00          | 18.00          | 1.20           | 16.55          | 16.55          | 1.40           | 15.08          | 15.08          | 1.63           | 13.64          | 13.64          | 12.24          | 2.22 |
|                                                                  | 62 (16.7)        | 19.63          | 18.98                                         | 17.96          | 17.96          | 1.20           | 16.57          | 16.57          | 1.40           | 15.11          | 15.11          | 1.63           | 13.67          | 13.67          | 12.26          | 2.22 |
|                                                                  | 63 (17.2)††      | 19.92          | 15.40                                         | 14.29          | 14.29          | 1.20           | 16.58          | 13.16          | 1.40           | 14.89          | 12.06          | 1.63           | 13.25          | 10.97          | 11.67          | 2.22 |
|                                                                  | 67 (19.4)        | 21.63          | 16.14                                         | 14.99          | 14.99          | 1.18           | 18.02          | 13.84          | 1.38           | 16.21          | 12.71          | 1.62           | 14.45          | 11.61          | 12.77          | 2.22 |
|                                                                  | 72 (22.2)        | 23.96          | 13.07                                         | 12.06          | 12.06          | 1.16           | 19.98          | 11.05          | 1.36           | 18.01          | 10.06          | 1.60           | 16.09          | 9.12           | 14.25          | 2.21 |

DETAILED COOLING CAPACITIES# CONTINUED

| EVAPORATOR AIR |                |                          | CONDENSER ENTERING AIR TEMPERATURES °F (°C) |                         |                          |       |                         |                          |       |                         |                          |            |                         |                          |       |                         |                          |       |                         |            |  |
|----------------|----------------|--------------------------|---------------------------------------------|-------------------------|--------------------------|-------|-------------------------|--------------------------|-------|-------------------------|--------------------------|------------|-------------------------|--------------------------|-------|-------------------------|--------------------------|-------|-------------------------|------------|--|
| CFM            | EWB<br>°F (°C) | 75 (23.9)                |                                             | 85 (29.4)               |                          |       |                         | 95 (35)                  |       |                         |                          | 105 (40.6) |                         |                          |       | 115 (46.1)              |                          |       |                         | 125 (51.7) |  |
|                |                | Capacity MBtuHt<br>Total | Sens†                                       | Total<br>System<br>KW** | Capacity MBtuHt<br>Total | Sens† | Total<br>System<br>KW** | Capacity MBtuHt<br>Total | Sens† | Total<br>System<br>KW** | Capacity MBtuHt<br>Total | Sens†      | Total<br>System<br>KW** | Capacity MBtuHt<br>Total | Sens† | Total<br>System<br>KW** | Capacity MBtuHt<br>Total | Sens† | Total<br>System<br>KW** |            |  |
| 900            | 57 (13.9)      | 33.59                    | 33.59                                       | 2.10                    | 32.13                    | 32.13 | 2.36                    | 30.60                    | 30.60 | 2.67                    | 28.98                    | 28.98      | 3.03                    | 27.24                    | 27.24 | 3.44                    | 25.34                    | 25.34 | 3.90                    |            |  |
|                | 62 (16.7)      | 35.79                    | 30.52                                       | 2.13                    | 33.92                    | 29.55 | 2.38                    | 31.98                    | 28.55 | 2.68                    | 29.95                    | 27.51      | 3.03                    | 27.78                    | 26.41 | 3.44                    | 25.47                    | 25.23 | 3.91                    |            |  |
|                | 63 (17.2)††    | 36.56                    | 25.27                                       | 2.13                    | 34.65                    | 24.34 | 2.39                    | 32.68                    | 23.39 | 2.69                    | 30.59                    | 22.40      | 3.04                    | 28.37                    | 21.35 | 3.44                    | 25.95                    | 20.24 | 3.91                    |            |  |
|                | 67 (19.4)      | 39.56                    | 26.24                                       | 2.16                    | 37.50                    | 25.30 | 2.41                    | 35.38                    | 24.34 | 2.71                    | 33.12                    | 23.34      | 3.06                    | 30.72                    | 22.28 | 3.47                    | 28.13                    | 21.16 | 3.93                    |            |  |
|                | 72 (22.2)      | 43.66                    | 21.83                                       | 2.21                    | 41.43                    | 20.94 | 2.45                    | 39.09                    | 20.03 | 2.74                    | 36.82                    | 19.09      | 3.09                    | 34.00                    | 18.05 | 3.50                    | 31.17                    | 16.98 | 3.96                    |            |  |
| 975            | 57 (13.9)      | 34.66                    | 34.66                                       | 2.12                    | 33.12                    | 33.12 | 2.38                    | 31.53                    | 31.53 | 2.69                    | 29.83                    | 29.83      | 3.04                    | 28.02                    | 28.02 | 3.45                    | 26.04                    | 26.04 | 3.92                    |            |  |
|                | 62 (16.7)      | 36.45                    | 31.93                                       | 2.14                    | 34.52                    | 30.93 | 2.39                    | 32.54                    | 29.91 | 2.69                    | 30.44                    | 28.83      | 3.05                    | 28.25                    | 27.68 | 3.45                    | 26.08                    | 26.08 | 3.92                    |            |  |
|                | 63 (17.2)††    | 37.23                    | 26.25                                       | 2.15                    | 35.26                    | 25.31 | 2.40                    | 33.22                    | 24.33 | 2.70                    | 31.07                    | 23.32      | 3.05                    | 28.78                    | 22.25 | 3.46                    | 26.30                    | 21.12 | 3.92                    |            |  |
|                | 67 (19.4)      | 40.24                    | 27.28                                       | 2.18                    | 38.13                    | 26.33 | 2.43                    | 35.92                    | 25.34 | 2.72                    | 33.61                    | 24.32      | 3.07                    | 31.14                    | 23.24 | 3.48                    | 28.48                    | 22.10 | 3.95                    |            |  |
|                | 72 (22.2)      | 44.40                    | 22.51                                       | 2.22                    | 42.08                    | 21.60 | 2.46                    | 39.68                    | 20.67 | 2.76                    | 37.15                    | 19.70      | 3.10                    | 34.44                    | 18.66 | 3.51                    | 31.56                    | 17.58 | 3.98                    |            |  |
| 1050           | 57 (13.9)      | 35.64                    | 35.64                                       | 2.14                    | 34.03                    | 34.03 | 2.40                    | 32.38                    | 32.38 | 2.70                    | 30.61                    | 30.61      | 3.06                    | 28.73                    | 28.73 | 3.47                    | 26.66                    | 26.66 | 3.94                    |            |  |
|                | 62 (16.7)      | 37.04                    | 33.31                                       | 2.16                    | 35.06                    | 32.28 | 2.41                    | 33.03                    | 31.22 | 2.71                    | 30.91                    | 30.11      | 3.06                    | 28.77                    | 28.77 | 3.47                    | 26.70                    | 26.70 | 3.94                    |            |  |
|                | 63 (17.2)††    | 37.80                    | 27.21                                       | 2.16                    | 35.78                    | 26.24 | 2.41                    | 33.69                    | 25.26 | 2.71                    | 31.48                    | 24.22      | 3.07                    | 29.13                    | 23.13 | 3.47                    | 26.60                    | 21.97 | 3.94                    |            |  |
|                | 67 (19.4)      | 40.84                    | 28.30                                       | 2.20                    | 38.66                    | 27.32 | 2.44                    | 36.40                    | 26.32 | 2.74                    | 34.03                    | 25.28      | 3.09                    | 31.49                    | 24.18 | 3.49                    | 28.79                    | 23.03 | 3.96                    |            |  |
|                | 72 (22.2)      | 45.03                    | 23.16                                       | 2.24                    | 42.65                    | 22.24 | 2.48                    | 40.20                    | 21.29 | 2.77                    | 37.60                    | 20.30      | 3.12                    | 34.83                    | 19.26 | 3.52                    | 31.88                    | 18.16 | 3.99                    |            |  |
| 1200           | 57 (13.9)      | 37.35                    | 37.35                                       | 2.18                    | 35.63                    | 35.63 | 2.43                    | 33.86                    | 33.86 | 2.74                    | 31.97                    | 31.97      | 3.09                    | 29.94                    | 29.94 | 3.50                    | 27.74                    | 27.74 | 3.97                    |            |  |
|                | 62 (16.7)      | 38.04                    | 35.95                                       | 2.19                    | 36.01                    | 34.85 | 2.44                    | 33.95                    | 33.86 | 2.74                    | 32.02                    | 32.02      | 3.09                    | 29.98                    | 29.98 | 3.50                    | 27.78                    | 27.78 | 3.97                    |            |  |
|                | 63 (17.2)††    | 38.75                    | 29.06                                       | 2.19                    | 36.63                    | 28.06 | 2.44                    | 34.43                    | 27.03 | 2.74                    | 32.13                    | 25.96      | 3.09                    | 29.69                    | 24.84 | 3.50                    | 27.07                    | 23.64 | 3.96                    |            |  |
|                | 67 (19.4)      | 41.80                    | 30.27                                       | 2.23                    | 39.53                    | 29.26 | 2.47                    | 37.17                    | 28.23 | 2.76                    | 34.71                    | 27.15      | 3.11                    | 32.08                    | 26.02 | 3.52                    | 29.28                    | 24.82 | 3.99                    |            |  |
|                | 72 (22.2)      | 46.06                    | 24.41                                       | 2.27                    | 43.58                    | 23.47 | 2.51                    | 41.01                    | 22.49 | 2.80                    | 38.32                    | 21.48      | 3.15                    | 35.44                    | 20.21 | 3.55                    | 32.39                    | 19.28 | 4.02                    |            |  |
| 720            | 57 (13.9)      | 25.97                    | 25.97                                       | 1.44                    | 24.13                    | 24.13 | 1.73                    | 22.32                    | 22.32 | 2.06                    | 20.47                    | 20.47      | 2.46                    | 18.58                    | 18.58 | 2.93                    | 16.64                    | 16.64 | 3.49                    |            |  |
|                | 62 (16.7)      | 27.04                    | 24.32                                       | 1.44                    | 24.89                    | 22.65 | 1.72                    | 22.77                    | 21.00 | 2.06                    | 20.65                    | 19.36      | 2.46                    | 18.62                    | 18.62 | 2.93                    | 16.67                    | 16.67 | 3.49                    |            |  |
|                | 63 (17.2)††    | 27.62                    | 19.90                                       | 1.43                    | 25.41                    | 18.43 | 1.72                    | 23.23                    | 17.00 | 2.05                    | 21.04                    | 15.58      | 2.46                    | 18.80                    | 14.16 | 2.93                    | 16.53                    | 12.76 | 3.49                    |            |  |
|                | 67 (19.4)      | 30.03                    | 20.80                                       | 1.41                    | 27.65                    | 19.26 | 1.70                    | 25.29                    | 17.79 | 2.04                    | 22.92                    | 16.32      | 2.44                    | 20.50                    | 14.87 | 2.91                    | 18.05                    | 13.43 | 3.47                    |            |  |
|                | 72 (22.2)      | 33.45                    | 17.17                                       | 1.38                    | 30.80                    | 15.82 | 1.67                    | 28.18                    | 14.50 | 2.01                    | 25.56                    | 13.21      | 2.41                    | 22.91                    | 11.93 | 2.88                    | 20.21                    | 10.66 | 3.44                    |            |  |
| 780            | 57 (13.9)      | 26.78                    | 26.78                                       | 1.44                    | 24.87                    | 24.87 | 1.72                    | 22.98                    | 22.98 | 2.06                    | 21.07                    | 21.07      | 2.46                    | 19.11                    | 19.11 | 2.93                    | 17.10                    | 17.10 | 3.49                    |            |  |
|                | 62 (16.7)      | 27.53                    | 25.51                                       | 1.44                    | 25.33                    | 23.77 | 1.72                    | 23.18                    | 22.04 | 2.06                    | 21.11                    | 21.11      | 2.46                    | 19.14                    | 19.14 | 2.93                    | 17.13                    | 17.13 | 3.49                    |            |  |
|                | 63 (17.2)††    | 28.09                    | 20.73                                       | 1.43                    | 25.83                    | 19.21 | 1.72                    | 23.59                    | 17.73 | 2.06                    | 21.34                    | 16.26      | 2.46                    | 19.06                    | 14.80 | 2.94                    | 16.73                    | 13.35 | 3.50                    |            |  |
|                | 67 (19.4)      | 30.55                    | 21.66                                       | 1.41                    | 28.10                    | 20.10 | 1.70                    | 25.67                    | 18.57 | 2.04                    | 23.25                    | 17.06      | 2.44                    | 20.78                    | 15.56 | 2.91                    | 18.28                    | 14.07 | 3.47                    |            |  |
|                | 72 (22.2)      | 34.02                    | 17.75                                       | 1.39                    | 31.29                    | 16.36 | 1.68                    | 28.60                    | 15.01 | 2.02                    | 25.92                    | 13.69      | 2.42                    | 23.21                    | 12.37 | 2.89                    | 20.45                    | 11.08 | 3.44                    |            |  |
| 840            | 57 (13.9)      | 27.53                    | 27.53                                       | 1.44                    | 25.56                    | 25.56 | 1.72                    | 23.60                    | 23.60 | 2.06                    | 21.61                    | 21.61      | 2.46                    | 19.59                    | 19.59 | 2.93                    | 17.51                    | 17.51 | 3.49                    |            |  |
|                | 62 (16.7)      | 27.98                    | 26.67                                       | 1.44                    | 25.76                    | 24.84 | 1.72                    | 23.64                    | 23.64 | 2.06                    | 21.65                    | 21.65      | 2.46                    | 19.63                    | 19.63 | 2.93                    | 17.54                    | 17.54 | 3.49                    |            |  |
|                | 63 (17.2)††    | 28.51                    | 21.54                                       | 1.43                    | 26.20                    | 19.98 | 1.72                    | 23.91                    | 18.45 | 2.06                    | 21.61                    | 16.93      | 2.46                    | 19.29                    | 15.43 | 2.94                    | 16.92                    | 13.93 | 3.50                    |            |  |
|                | 67 (19.4)      | 31.00                    | 22.53                                       | 1.41                    | 28.48                    | 20.92 | 1.70                    | 26.01                    | 19.34 | 2.04                    | 23.53                    | 17.78      | 2.44                    | 21.02                    | 16.24 | 2.92                    | 18.47                    | 14.70 | 3.47                    |            |  |
|                | 72 (22.2)      | 34.49                    | 18.31                                       | 1.39                    | 31.71                    | 16.89 | 1.68                    | 28.96                    | 15.51 | 2.02                    | 26.22                    | 14.15      | 2.42                    | 23.45                    | 12.81 | 2.89                    | 20.65                    | 11.48 | 3.44                    |            |  |
| 960            | 57 (13.9)      | 28.86                    | 28.86                                       | 1.44                    | 26.76                    | 26.76 | 1.73                    | 24.68                    | 24.68 | 2.06                    | 22.57                    | 22.57      | 2.46                    | 20.43                    | 20.43 | 2.94                    | 18.24                    | 18.24 | 3.49                    |            |  |
|                | 62 (16.7)      | 28.91                    | 28.91                                       | 1.44                    | 26.80                    | 26.80 | 1.73                    | 24.72                    | 24.72 | 2.06                    | 22.61                    | 22.61      | 2.46                    | 20.47                    | 20.47 | 2.94                    | 18.27                    | 18.27 | 3.49                    |            |  |
|                | 63 (17.2)††    | 29.20                    | 23.11                                       | 1.44                    | 26.80                    | 21.46 | 1.73                    | 24.44                    | 19.85 | 2.07                    | 22.06                    | 18.24      | 2.47                    | 19.67                    | 16.65 | 2.95                    | 17.25                    | 15.06 | 3.51                    |            |  |
|                | 67 (19.4)      | 31.73                    | 24.22                                       | 1.42                    | 29.12                    | 22.52 | 1.71                    | 26.56                    | 20.85 | 2.05                    | 23.99                    | 19.19      | 2.45                    | 21.42                    | 17.56 | 2.92                    | 18.80                    | 15.93 | 3.48                    |            |  |
|                | 72 (22.2)      | 35.28                    | 19.40                                       | 1.39                    | 32.39                    | 17.92 | 1.68                    | 29.55                    | 16.47 | 2.02                    | 26.71                    | 15.05      | 2.42                    | 23.87                    | 13.65 | 2.90                    | 20.98                    | 12.26 | 3.45                    |            |  |

See notes on pg. 15

DETAILED COOLING CAPACITIES# CONTINUED

| EVAPORATOR AIR                                                    |                | CONDENSER ENTERING AIR TEMPERATURES °F (°C) |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |       |       |      |  |
|-------------------------------------------------------------------|----------------|---------------------------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-------|-------|------|--|
| CFM                                                               | EWB<br>°F (°C) | 75 (23.9)                                   |                   | 85 (29.4)       |                   | 95 (35)         |                   | 105 (40.6)      |                   | 115 (46.1)      |                   | 125 (51.7)      |                   |       |       |      |  |
|                                                                   |                | Capacity MBtu/h                             | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** |       |       |      |  |
|                                                                   |                | Total                                       | Sens†             | Total           | Sens†             | Total           | Sens†             | Total           | Sens†             | Total           | Sens†             | Total           | Sens†             |       |       |      |  |
| 1200                                                              | 57 (13.9)      | 42.70                                       | 42.70             | 41.39           | 3.26              | 39.86           | 3.66              | 38.17           | 38.17             | 36.35           | 4.13              | 36.35           | 4.69              | 34.44 | 34.44 | 5.34 |  |
|                                                                   | 62 (16.7)      | 45.46                                       | 39.41             | 43.68           | 3.27              | 41.63           | 3.67              | 39.40           | 36.53             | 4.14            | 37.07             | 35.41           | 4.69              | 34.69 | 34.21 | 5.35 |  |
|                                                                   | 63 (17.2)††    | 46.41                                       | 32.56             | 44.59           | 3.28              | 42.48           | 3.68              | 40.18           | 37.76             | 3.70            | 37.76             | 28.58           | 4.70              | 35.25 | 27.48 | 5.35 |  |
|                                                                   | 67 (19.4)      | 50.09                                       | 33.77             | 48.12           | 3.30              | 45.85           | 3.70              | 43.40           | 30.88             | 4.18            | 40.80             | 29.80           | 4.74              | 38.11 | 28.70 | 5.40 |  |
|                                                                   | 72 (22.2)      | 55.10                                       | 27.96             | 52.90           | 3.33              | 50.43           | 3.74              | 47.76           | 25.04             | 4.22            | 44.93             | 23.95           | 4.78              | 41.99 | 22.85 | 5.45 |  |
| 1300                                                              | 57 (13.9)      | 43.94                                       | 43.94             | 42.57           | 3.29              | 40.96           | 3.69              | 39.18           | 39.18             | 37.28           | 4.16              | 37.28           | 4.72              | 35.28 | 35.28 | 5.38 |  |
|                                                                   | 62 (16.7)      | 46.21                                       | 41.13             | 44.38           | 3.30              | 42.26           | 3.70              | 39.98           | 38.15             | 4.17            | 37.61             | 36.96           | 4.72              | 35.34 | 35.34 | 5.38 |  |
|                                                                   | 63 (17.2)††    | 47.15                                       | 33.75             | 45.26           | 3.31              | 43.09           | 3.71              | 40.71           | 38.22             | 3.71            | 38.22             | 29.71           | 4.73              | 35.64 | 28.59 | 5.38 |  |
|                                                                   | 67 (19.4)      | 50.86                                       | 35.03             | 48.81           | 3.33              | 46.48           | 3.73              | 43.94           | 32.10             | 4.21            | 41.27             | 31.01           | 4.77              | 38.51 | 29.90 | 5.43 |  |
|                                                                   | 72 (22.2)      | 55.89                                       | 28.74             | 53.62           | 3.36              | 51.07           | 3.77              | 48.32           | 25.79             | 4.25            | 45.41             | 24.70           | 4.81              | 42.39 | 23.58 | 5.48 |  |
| 1400                                                              | 57 (13.9)      | 45.06                                       | 45.06             | 43.63           | 3.32              | 41.94           | 3.72              | 40.09           | 40.09             | 38.12           | 4.19              | 38.12           | 4.75              | 36.04 | 36.04 | 5.42 |  |
|                                                                   | 62 (16.7)      | 46.88                                       | 42.78             | 44.98           | 3.33              | 42.83           | 3.73              | 40.51           | 39.67             | 4.20            | 38.18             | 38.18           | 4.75              | 36.09 | 36.09 | 5.42 |  |
|                                                                   | 63 (17.2)††    | 47.79                                       | 34.89             | 45.84           | 3.33              | 43.60           | 3.73              | 41.16           | 31.92             | 4.20            | 38.61             | 30.81           | 4.76              | 35.98 | 29.67 | 5.41 |  |
|                                                                   | 67 (19.4)      | 51.52                                       | 36.24             | 49.40           | 3.35              | 47.00           | 3.76              | 44.39           | 33.28             | 4.23            | 41.67             | 32.19           | 4.79              | 38.84 | 31.06 | 5.46 |  |
|                                                                   | 72 (22.2)      | 56.57                                       | 29.50             | 54.24           | 3.38              | 51.61           | 3.78              | 48.79           | 26.52             | 4.27            | 45.81             | 25.41           | 4.82              | 42.73 | 24.30 | 5.51 |  |
| 1600                                                              | 57 (13.9)      | 47.01                                       | 47.01             | 45.45           | 3.38              | 43.64           | 3.78              | 41.65           | 41.65             | 39.54           | 4.26              | 39.54           | 4.82              | 37.32 | 37.32 | 5.48 |  |
|                                                                   | 62 (16.7)      | 48.00                                       | 45.88             | 46.04           | 3.38              | 43.86           | 3.78              | 41.71           | 41.71             | 39.60           | 4.26              | 39.60           | 4.82              | 37.36 | 37.36 | 5.49 |  |
|                                                                   | 63 (17.2)††    | 48.82                                       | 37.08             | 46.76           | 3.38              | 44.42           | 3.79              | 41.88           | 34.05             | 4.26            | 39.24             | 32.91           | 4.81              | 36.51 | 31.74 | 5.47 |  |
|                                                                   | 67 (19.4)      | 52.57                                       | 38.58             | 50.34           | 3.41              | 47.82           | 3.81              | 45.12           | 35.57             | 4.29            | 42.28             | 34.45           | 4.85              | 39.37 | 33.30 | 5.51 |  |
|                                                                   | 72 (22.2)      | 57.65                                       | 30.93             | 55.20           | 3.43              | 52.47           | 3.85              | 49.53           | 27.91             | 4.33            | 46.44             | 26.80           | 4.90              | 43.25 | 25.67 | 5.57 |  |
| BH17NA048-B Outdoor Section With FV4CN(BF)005 Indoor Section - LO |                |                                             |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |       |       |      |  |
| 960                                                               | 57 (13.9)      | 33.65                                       | 33.65             | 30.83           | 2.34              | 27.95           | 2.75              | 25.05           | 25.05             | 22.16           | 3.21              | 22.16           | 3.75              | 19.33 | 19.33 | 4.36 |  |
|                                                                   | 62 (16.7)      | 35.08                                       | 31.64             | 31.83           | 2.33              | 28.52           | 2.74              | 25.24           | 24.22             | 22.20           | 3.21              | 22.20           | 3.74              | 19.36 | 19.36 | 4.36 |  |
|                                                                   | 63 (17.2)††    | 35.83                                       | 25.87             | 32.50           | 2.33              | 29.09           | 2.74              | 25.67           | 19.49             | 22.29           | 3.20              | 22.29           | 3.74              | 18.99 | 15.39 | 4.37 |  |
|                                                                   | 67 (19.4)      | 38.99                                       | 27.02             | 35.42           | 2.30              | 31.77           | 2.71              | 28.12           | 20.50             | 24.49           | 3.18              | 24.49           | 3.72              | 20.96 | 16.30 | 4.34 |  |
|                                                                   | 72 (22.2)      | 43.33                                       | 22.27             | 39.42           | 2.27              | 35.44           | 2.68              | 31.46           | 16.57             | 27.50           | 3.15              | 27.50           | 3.69              | 23.63 | 12.93 | 4.31 |  |
| 1040                                                              | 57 (13.9)      | 34.67                                       | 34.67             | 31.75           | 2.35              | 28.77           | 2.75              | 25.77           | 25.77             | 22.79           | 3.21              | 22.79           | 3.75              | 19.87 | 19.87 | 4.37 |  |
|                                                                   | 62 (16.7)      | 35.69                                       | 33.12             | 32.38           | 2.34              | 29.03           | 2.75              | 25.82           | 25.82             | 22.83           | 3.21              | 22.83           | 3.75              | 19.90 | 19.90 | 4.37 |  |
|                                                                   | 63 (17.2)††    | 36.41                                       | 26.91             | 33.00           | 2.34              | 29.53           | 2.74              | 26.04           | 20.33             | 22.60           | 3.21              | 22.60           | 3.75              | 19.24 | 16.10 | 4.38 |  |
|                                                                   | 67 (19.4)      | 39.61                                       | 28.13             | 35.95           | 2.31              | 32.23           | 2.72              | 28.49           | 21.39             | 24.81           | 3.19              | 24.81           | 3.73              | 21.21 | 17.07 | 4.35 |  |
|                                                                   | 72 (22.2)      | 44.00                                       | 22.98             | 40.00           | 2.28              | 35.94           | 2.69              | 31.87           | 17.14             | 27.85           | 3.16              | 27.85           | 3.70              | 23.90 | 13.41 | 4.32 |  |
| 1120                                                              | 57 (13.9)      | 35.59                                       | 35.59             | 32.58           | 2.35              | 29.51           | 2.75              | 26.43           | 26.43             | 23.36           | 3.22              | 23.36           | 3.76              | 20.35 | 20.35 | 4.38 |  |
|                                                                   | 62 (16.7)      | 36.25                                       | 34.53             | 32.90           | 2.35              | 29.57           | 2.75              | 26.47           | 26.47             | 23.40           | 3.22              | 23.40           | 3.76              | 20.38 | 20.38 | 4.37 |  |
|                                                                   | 63 (17.2)††    | 36.91                                       | 27.91             | 33.44           | 2.35              | 29.91           | 2.75              | 26.37           | 21.15             | 22.86           | 3.22              | 22.86           | 3.76              | 19.46 | 16.78 | 4.39 |  |
|                                                                   | 67 (19.4)      | 40.13                                       | 29.21             | 36.41           | 2.32              | 32.62           | 2.73              | 28.82           | 22.27             | 25.08           | 3.20              | 25.08           | 3.74              | 21.43 | 17.81 | 4.36 |  |
|                                                                   | 72 (22.2)      | 44.57                                       | 23.67             | 40.50           | 2.29              | 36.36           | 2.70              | 32.23           | 17.70             | 28.14           | 3.17              | 28.14           | 3.71              | 24.13 | 13.88 | 4.33 |  |
| 1280                                                              | 57 (13.9)      | 37.21                                       | 37.21             | 34.04           | 2.36              | 30.81           | 2.77              | 27.57           | 27.57             | 24.35           | 3.23              | 24.35           | 3.77              | 21.18 | 21.18 | 4.39 |  |
|                                                                   | 62 (16.7)      | 37.28                                       | 37.28             | 34.09           | 2.36              | 30.86           | 2.77              | 27.62           | 27.62             | 24.38           | 3.23              | 24.38           | 3.77              | 21.21 | 21.21 | 4.39 |  |
|                                                                   | 63 (17.2)††    | 37.74                                       | 29.85             | 34.16           | 2.36              | 30.54           | 2.77              | 26.89           | 22.71             | 23.31           | 3.24              | 23.31           | 3.78              | 19.84 | 18.07 | 4.41 |  |
|                                                                   | 67 (19.4)      | 40.88                                       | 31.28             | 37.14           | 2.34              | 33.25           | 2.75              | 29.36           | 23.96             | 25.52           | 3.22              | 25.52           | 3.76              | 21.80 | 19.22 | 4.38 |  |
|                                                                   | 72 (22.2)      | 45.50                                       | 24.98             | 41.30           | 2.31              | 37.06           | 2.72              | 32.80           | 18.76             | 28.59           | 3.19              | 28.59           | 3.73              | 24.49 | 14.79 | 4.35 |  |

See notes on pg. 15

DETAILED COOLING CAPACITIES# CONTINUED

| EVAPORATOR AIR                                                 |                | CONDENSER ENTERING AIR TEMPERATURES °F (°C) |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |       |      |
|----------------------------------------------------------------|----------------|---------------------------------------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-----------------|-------------------|-------|------|
| CFM                                                            | EWB<br>°F (°C) | 75 (23.9)                                   |                   | 85 (29.4)       |                   | 95 (35)         |                   | 105 (40.6)      |                   | 115 (46.1)      |                   | 125 (51.7)      |                   |       |      |
|                                                                |                | Capacity MBtu/h                             | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** | Capacity MBtu/h | Total System KW** |       |      |
|                                                                |                | Total                                       | Sens†             | Total           | Sens†             | Total           | Sens†             | Total           | Sens†             | Total           | Sens†             | Total           | Sens†             |       |      |
| BH17NA060–B Outdoor Section With FV4CNB006 Indoor Section – HI |                |                                             |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |       |      |
| 1500                                                           | 57 (13.9)      | 51.61                                       | 51.61             | 49.90           | 49.90             | 3.94            | 48.10             | 48.10           | 4.37              | 46.09           | 46.09             | 4.87            | 43.74             | 43.74 | 5.44 |
|                                                                | 62 (16.7)      | 54.77                                       | 49.03             | 52.50           | 47.37             | 3.96            | 50.12             | 45.69           | 4.39              | 47.51           | 43.92             | 4.88            | 44.55             | 42.00 | 5.45 |
|                                                                | 63 (17.2)††    | 55.96                                       | 40.39             | 53.60           | 38.83             | 3.97            | 51.15             | 37.26           | 4.40              | 48.45           | 35.61             | 4.89            | 45.37             | 33.84 | 5.46 |
|                                                                | 67 (19.4)      | 60.55                                       | 41.97             | 57.92           | 40.35             | 4.01            | 55.18             | 38.71           | 4.44              | 52.18           | 37.01             | 4.93            | 48.79             | 35.19 | 5.50 |
|                                                                | 72 (22.2)      | 66.85                                       | 34.72             | 63.83           | 33.13             | 4.07            | 60.69             | 31.53           | 4.49              | 57.28           | 29.87             | 4.99            | 53.46             | 28.12 | 5.55 |
| 1625                                                           | 57 (13.9)      | 53.11                                       | 53.11             | 51.30           | 49.40             | 3.98            | 49.40             | 49.40           | 4.41              | 47.27           | 47.27             | 4.91            | 44.79             | 44.79 | 5.49 |
|                                                                | 62 (16.7)      | 55.69                                       | 51.18             | 53.31           | 49.45             | 4.00            | 50.86             | 47.70           | 4.43              | 48.17           | 45.86             | 4.92            | 45.16             | 43.80 | 5.49 |
|                                                                | 63 (17.2)††    | 56.85                                       | 41.87             | 54.40           | 40.27             | 4.01            | 51.85             | 38.66           | 4.44              | 49.04           | 36.96             | 4.93            | 45.87             | 33.16 | 5.50 |
|                                                                | 67 (19.4)      | 61.48                                       | 43.55             | 58.74           | 41.88             | 4.05            | 55.90             | 40.20           | 4.48              | 52.79           | 38.46             | 4.97            | 49.30             | 36.60 | 5.54 |
|                                                                | 72 (22.2)      | 67.83                                       | 35.71             | 64.70           | 34.06             | 4.11            | 61.44             | 32.45           | 4.54              | 57.91           | 30.76             | 5.03            | 53.98             | 28.97 | 5.59 |
| 1750                                                           | 57 (13.9)      | 54.46                                       | 54.46             | 52.57           | 50.56             | 4.03            | 50.56             | 50.56           | 4.46              | 48.32           | 48.32             | 4.96            | 45.73             | 45.73 | 5.53 |
|                                                                | 62 (16.7)      | 56.48                                       | 53.25             | 54.04           | 51.45             | 4.04            | 51.52             | 49.63           | 4.47              | 48.77           | 47.65             | 4.96            | 45.80             | 45.80 | 5.53 |
|                                                                | 63 (17.2)††    | 57.62                                       | 43.31             | 55.08           | 41.67             | 4.05            | 52.43             | 40.01           | 4.48              | 49.55           | 38.28             | 4.97            | 46.29             | 36.43 | 5.54 |
|                                                                | 67 (19.4)      | 62.27                                       | 45.08             | 59.45           | 43.37             | 4.10            | 56.50             | 41.65           | 4.52              | 53.30           | 39.87             | 5.01            | 49.72             | 37.98 | 5.58 |
|                                                                | 72 (22.2)      | 68.68                                       | 36.66             | 65.44           | 35.01             | 4.16            | 62.06             | 33.34           | 4.58              | 58.44           | 31.62             | 5.07            | 54.40             | 29.80 | 5.63 |
| 2000                                                           | 57 (13.9)      | 56.83                                       | 56.83             | 54.75           | 54.75             | 4.12            | 52.55             | 52.55           | 4.55              | 50.11           | 50.11             | 5.05            | 47.32             | 47.32 | 5.62 |
|                                                                | 62 (16.7)      | 57.84                                       | 57.13             | 55.30           | 55.14             | 4.12            | 52.69             | 52.60           | 4.55              | 50.18           | 50.18             | 5.05            | 47.37             | 47.37 | 5.62 |
|                                                                | 63 (17.2)††    | 58.85                                       | 46.05             | 56.15           | 44.33             | 4.13            | 53.37             | 42.61           | 4.56              | 50.34           | 40.81             | 5.05            | 46.95             | 38.88 | 5.62 |
|                                                                | 67 (19.4)      | 63.55                                       | 48.03             | 60.55           | 46.24             | 4.18            | 57.45             | 44.45           | 4.60              | 54.09           | 42.59             | 5.09            | 50.35             | 40.62 | 5.66 |
|                                                                | 72 (22.2)      | 70.02                                       | 38.47             | 66.60           | 36.76             | 4.24            | 63.06             | 35.04           | 4.66              | 59.25           | 33.26             | 5.15            | 55.05             | 31.39 | 5.71 |
| BH17NA060–B Outdoor Section With FV4CNB006 Indoor Section – LO |                |                                             |                   |                 |                   |                 |                   |                 |                   |                 |                   |                 |                   |       |      |
| 1200                                                           | 57 (13.9)      | 41.27                                       | 41.27             | 36.79           | 36.79             | 2.45            | 32.29             | 32.29           | 3.27              | 27.87           | 27.87             | 3.78            | 23.62             | 23.62 | 4.35 |
|                                                                | 62 (16.7)      | 42.97                                       | 39.35             | 37.92           | 36.10             | 2.82            | 32.87             | 32.82           | 3.27              | 28.01           | 27.79             | 3.78            | 23.66             | 23.66 | 4.35 |
|                                                                | 63 (17.2)††    | 43.88                                       | 32.14             | 38.70           | 29.32             | 2.82            | 33.52             | 26.49           | 3.26              | 28.48           | 23.70             | 3.77            | 23.68             | 21.00 | 4.35 |
|                                                                | 67 (19.4)      | 47.49                                       | 33.46             | 41.89           | 30.56             | 2.79            | 36.33             | 27.67           | 3.24              | 30.92           | 24.82             | 3.75            | 25.76             | 22.04 | 4.33 |
|                                                                | 72 (22.2)      | 52.45                                       | 27.41             | 46.29           | 24.87             | 2.75            | 40.20             | 22.34           | 3.20              | 34.27           | 19.86             | 3.71            | 28.63             | 17.46 | 4.29 |
| 1300                                                           | 57 (13.9)      | 42.46                                       | 42.46             | 37.83           | 37.83             | 2.45            | 33.17             | 33.17           | 3.28              | 28.61           | 28.61             | 3.79            | 24.22             | 24.22 | 4.36 |
|                                                                | 62 (16.7)      | 43.67                                       | 41.17             | 38.51           | 37.77             | 2.84            | 33.41             | 34.32           | 3.28              | 28.66           | 28.66             | 3.79            | 24.26             | 24.26 | 4.36 |
|                                                                | 63 (17.2)††    | 44.54                                       | 33.40             | 39.25           | 30.50             | 2.83            | 33.97             | 27.58           | 3.28              | 28.84           | 24.71             | 3.79            | 23.96             | 21.92 | 4.37 |
|                                                                | 67 (19.4)      | 48.17                                       | 34.81             | 42.46           | 31.82             | 2.80            | 36.79             | 28.84           | 3.25              | 31.28           | 25.89             | 3.76            | 26.04             | 23.03 | 4.34 |
|                                                                | 72 (22.2)      | 53.17                                       | 28.25             | 46.90           | 25.66             | 2.76            | 40.68             | 23.07           | 3.21              | 34.65           | 20.53             | 3.72            | 28.91             | 18.07 | 4.30 |
| 1400                                                           | 57 (13.9)      | 43.54                                       | 43.54             | 38.76           | 38.76             | 2.46            | 33.97             | 33.97           | 3.29              | 29.28           | 29.28             | 3.80            | 24.76             | 24.76 | 4.38 |
|                                                                | 62 (16.7)      | 44.29                                       | 42.90             | 39.07           | 39.35             | 2.85            | 34.02             | 34.02           | 3.29              | 29.32           | 29.32             | 3.80            | 24.80             | 24.80 | 4.38 |
|                                                                | 63 (17.2)††    | 45.11                                       | 34.63             | 39.72           | 31.84             | 2.84            | 34.35             | 28.64           | 3.29              | 29.15           | 25.69             | 3.80            | 24.19             | 22.80 | 4.38 |
|                                                                | 67 (19.4)      | 48.75                                       | 36.12             | 42.95           | 33.05             | 2.81            | 37.18             | 29.97           | 3.26              | 31.59           | 26.94             | 3.77            | 26.28             | 24.00 | 4.36 |
|                                                                | 72 (22.2)      | 53.79                                       | 29.08             | 47.41           | 26.42             | 2.77            | 41.08             | 23.77           | 3.22              | 34.97           | 21.18             | 3.74            | 28.15             | 18.67 | 4.32 |
| 1600                                                           | 57 (13.9)      | 45.41                                       | 45.41             | 40.37           | 40.37             | 2.48            | 35.34             | 35.34           | 3.31              | 30.42           | 30.42             | 3.82            | 25.69             | 25.69 | 4.40 |
|                                                                | 62 (16.7)      | 45.49                                       | 45.49             | 40.43           | 40.43             | 2.48            | 35.39             | 35.39           | 3.31              | 30.46           | 30.46             | 3.82            | 25.72             | 25.72 | 4.40 |
|                                                                | 63 (17.2)††    | 46.03                                       | 37.00             | 40.48           | 33.85             | 2.87            | 34.98             | 30.69           | 3.32              | 29.64           | 27.56             | 3.83            | 24.58             | 24.51 | 4.42 |
|                                                                | 67 (19.4)      | 49.70                                       | 38.66             | 43.72           | 35.42             | 2.84            | 37.82             | 32.17           | 3.29              | 32.09           | 28.97             | 3.80            | 26.67             | 25.85 | 4.39 |
|                                                                | 72 (22.2)      | 54.77                                       | 30.65             | 48.21           | 27.89             | 2.80            | 41.73             | 25.13           | 3.25              | 35.47           | 22.44             | 3.76            | 29.52             | 19.83 | 4.35 |

\* Tested combination.

† Total and sensible capacities are net capacities. Blower motor heat has been subtracted.

‡ Sensible capacities shown are based on 80°F (27°C) entering air at the indoor coil. For sensible capacities at other than 80°F (27°C), deduct 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air for each degree below 80°F (27°C), or add 835 Btu/h (245 kW) per 1000 CFM (480 L/S) of indoor coil air per degree above 80°F (27°C).

\*\* System kw is total of indoor and outdoor unit kilowatts.

†† At TVA rating indoor condition (75°F edb/63°F ewb). All other indoor air temperatures are at 80°F edb.

# Detailed cooling capacities are based on indoor and outdoor unit at the same elevation per AHRI standard 210/240--08. If additional tubing length and/or indoor unit is located above outdoor unit, a slight variation in capacity may occur.

NOTE: When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

EWB — Entering Wet Bulb

HEAT PUMP HEATING PERFORMANCE

| INDOOR AIR                                                       |     |                | OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C) |                |                |                |                |                |                |                |                |                |                   |                |                |                |                |       |      |       |       |      |       |       |      |
|------------------------------------------------------------------|-----|----------------|--------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|-------|------|-------|-------|------|-------|-------|------|
| EDB<br>° F (° C)                                                 | CFM | -3 (-19.4)     |                                                  | 7 (-13.9)      |                | 17 (-8.3)      |                | 27 (-2.8)      |                | 37 (2.8)       |                | 47 (8.3)       |                   | 57 (13.9)      |                | 67 (19.4)      |                |       |      |       |       |      |       |       |      |
|                                                                  |     | Capacity MBtuh | Total Sys. KW†                                   | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys-tem KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† |       |      |       |       |      |       |       |      |
|                                                                  |     | Total          | Integ*                                           | Total          | Integ*         | Total          | Integ*         | Total          | Integ*         | Total          | Integ*         | Total          | Integ*            | Total          | Integ*         | Total          | Integ*         |       |      |       |       |      |       |       |      |
| BH17NA024 – B Outdoor Section With FV4CNF002 Indoor Section – HI |     |                |                                                  |                |                |                |                |                |                |                |                |                |                   |                |                |                |                |       |      |       |       |      |       |       |      |
| 65<br>(18.3)                                                     | 600 | 9.13           | 8.40                                             | 1.36           | 12.06          | 11.08          | 1.47           | 15.38          | 14.02          | 1.60           | 18.36          | 16.30          | 1.73              | 21.55          | 19.61          | 1.88           | 24.98          | 24.98 | 2.06 | 28.66 | 28.66 | 2.27 | 32.46 | 32.46 | 2.53 |
|                                                                  | 650 | 9.21           | 8.47                                             | 1.36           | 12.17          | 11.18          | 1.46           | 15.50          | 14.13          | 1.58           | 18.52          | 16.45          | 1.71              | 21.78          | 19.82          | 1.86           | 25.25          | 25.25 | 2.03 | 28.99 | 28.99 | 2.23 | 32.87 | 32.87 | 2.47 |
|                                                                  | 700 | 9.29           | 8.54                                             | 1.35           | 12.28          | 11.29          | 1.45           | 15.61          | 14.23          | 1.57           | 18.67          | 16.58          | 1.69              | 21.97          | 19.99          | 1.83           | 25.50          | 25.50 | 2.00 | 29.29 | 29.29 | 2.19 | 33.22 | 33.22 | 2.43 |
|                                                                  | 800 | 9.42           | 8.67                                             | 1.35           | 12.47          | 11.46          | 1.44           | 15.79          | 14.40          | 1.55           | 18.92          | 16.80          | 1.67              | 22.30          | 20.29          | 1.80           | 25.92          | 25.92 | 1.95 | 29.78 | 29.78 | 2.14 | 33.75 | 33.75 | 2.36 |
| 70<br>(21.1)                                                     | 600 | 8.73           | 8.03                                             | 1.43           | 11.61          | 10.67          | 1.54           | 15.05          | 13.72          | 1.67           | 17.97          | 15.96          | 1.81              | 21.11          | 19.21          | 1.96           | 24.49          | 24.49 | 2.15 | 28.12 | 28.12 | 2.37 | 31.91 | 31.91 | 2.64 |
|                                                                  | 650 | 8.81           | 8.10                                             | 1.43           | 11.73          | 10.78          | 1.53           | 15.18          | 13.84          | 1.66           | 18.14          | 16.11          | 1.79              | 21.33          | 19.41          | 1.94           | 24.76          | 24.76 | 2.11 | 28.44 | 28.44 | 2.32 | 32.28 | 32.28 | 2.57 |
|                                                                  | 700 | 8.89           | 8.18                                             | 1.42           | 11.85          | 10.89          | 1.52           | 15.29          | 13.94          | 1.64           | 18.29          | 16.24          | 1.77              | 21.53          | 19.59          | 1.91           | 25.00          | 25.00 | 2.08 | 28.74 | 28.74 | 2.28 | 32.62 | 32.62 | 2.53 |
|                                                                  | 800 | 9.04           | 8.32                                             | 1.42           | 12.04          | 11.06          | 1.51           | 15.48          | 14.11          | 1.62           | 18.54          | 16.46          | 1.74              | 21.85          | 19.88          | 1.88           | 25.40          | 25.40 | 2.04 | 29.21 | 29.21 | 2.22 | 33.15 | 33.15 | 2.46 |
| 75<br>(23.9)                                                     | 600 | 8.26           | 7.60                                             | 1.50           | 11.14          | 10.23          | 1.61           | 14.66          | 13.37          | 1.75           | 17.59          | 15.62          | 1.89              | 20.68          | 18.81          | 2.05           | 24.01          | 24.01 | 2.24 | 27.59 | 27.59 | 2.46 | 31.35 | 31.35 | 2.75 |
|                                                                  | 650 | 8.34           | 7.67                                             | 1.49           | 11.25          | 10.34          | 1.60           | 14.81          | 13.50          | 1.73           | 17.75          | 15.76          | 1.86              | 20.89          | 19.01          | 2.02           | 24.27          | 24.27 | 2.20 | 27.90 | 27.90 | 2.41 | 31.71 | 31.71 | 2.68 |
|                                                                  | 700 | 8.43           | 7.76                                             | 1.49           | 11.37          | 10.45          | 1.59           | 14.93          | 13.61          | 1.72           | 17.90          | 15.89          | 1.85              | 21.07          | 19.18          | 1.99           | 24.50          | 24.50 | 2.17 | 28.19 | 28.19 | 2.37 | 32.03 | 32.03 | 2.63 |
|                                                                  | 800 | 8.59           | 7.90                                             | 1.49           | 11.57          | 10.63          | 1.58           | 15.14          | 13.80          | 1.70           | 18.14          | 16.11          | 1.82              | 21.39          | 19.47          | 1.96           | 24.89          | 24.89 | 2.12 | 28.66 | 28.66 | 2.31 | 32.55 | 32.55 | 2.56 |
| BH17NA024 – B Outdoor Section With FV4CNF002 Indoor Section – LO |     |                |                                                  |                |                |                |                |                |                |                |                |                |                   |                |                |                |                |       |      |       |       |      |       |       |      |
| 65<br>(18.3)                                                     | 480 | 4.29           | 3.94                                             | 1.03           | 7.46           | 6.85           | 1.14           | 10.33          | 9.42           | 1.23           | 13.01          | 11.56          | 1.31              | 15.75          | 14.33          | 1.39           | 17.90          | 17.90 | 1.47 | 20.02 | 20.02 | 1.55 | 22.13 | 22.13 | 1.66 |
|                                                                  | 520 | 4.33           | 3.98                                             | 1.03           | 7.54           | 6.93           | 1.13           | 10.48          | 9.55           | 1.22           | 13.24          | 11.76          | 1.29              | 15.95          | 14.52          | 1.37           | 18.14          | 18.14 | 1.44 | 20.30 | 20.30 | 1.51 | 22.46 | 22.46 | 1.61 |
|                                                                  | 560 | 4.38           | 4.03                                             | 1.03           | 7.66           | 7.04           | 1.13           | 10.61          | 9.67           | 1.21           | 13.47          | 11.96          | 1.28              | 16.13          | 14.68          | 1.35           | 18.36          | 18.36 | 1.41 | 20.57 | 20.57 | 1.48 | 22.77 | 22.77 | 1.57 |
|                                                                  | 640 | 4.48           | 4.12                                             | 1.04           | 7.82           | 7.18           | 1.13           | 10.81          | 9.86           | 1.20           | 14.03          | 12.46          | 1.27              | 16.42          | 14.94          | 1.32           | 18.73          | 18.73 | 1.38 | 21.02 | 21.02 | 1.44 | 23.29 | 23.29 | 1.51 |
| 70<br>(21.1)                                                     | 480 | 4.36           | 4.01                                             | 1.11           | 6.96           | 6.40           | 1.20           | 9.80           | 8.94           | 1.29           | 12.46          | 11.07          | 1.37              | 15.34          | 13.96          | 1.46           | 17.45          | 17.45 | 1.54 | 19.56 | 19.56 | 1.63 | 21.66 | 21.66 | 1.74 |
|                                                                  | 520 | 4.41           | 4.06                                             | 1.11           | 7.07           | 6.50           | 1.20           | 9.96           | 9.08           | 1.28           | 12.66          | 11.25          | 1.36              | 15.53          | 14.13          | 1.44           | 17.69          | 17.69 | 1.51 | 19.84 | 19.84 | 1.59 | 21.98 | 21.98 | 1.69 |
|                                                                  | 560 | 4.47           | 4.12                                             | 1.11           | 7.17           | 6.59           | 1.19           | 10.10          | 9.21           | 1.27           | 12.84          | 11.41          | 1.35              | 15.69          | 14.28          | 1.42           | 17.90          | 17.90 | 1.48 | 20.09 | 20.09 | 1.56 | 22.27 | 22.27 | 1.65 |
|                                                                  | 640 | 4.59           | 4.22                                             | 1.12           | 7.35           | 6.75           | 1.19           | 10.34          | 9.43           | 1.27           | 13.16          | 11.69          | 1.33              | 16.00          | 14.56          | 1.40           | 18.27          | 18.27 | 1.45 | 20.52 | 20.52 | 1.51 | 22.77 | 22.77 | 1.59 |
| 75<br>(23.9)                                                     | 480 | 4.10           | 3.77                                             | 1.18           | 6.39           | 5.87           | 1.26           | 9.23           | 8.41           | 1.35           | 11.89          | 10.56          | 1.44              | 14.87          | 13.53          | 1.53           | 17.02          | 17.02 | 1.61 | 19.10 | 19.10 | 1.71 | 21.20 | 21.20 | 1.83 |
|                                                                  | 520 | 4.17           | 3.84                                             | 1.18           | 6.49           | 5.96           | 1.26           | 9.39           | 8.56           | 1.35           | 12.09          | 10.73          | 1.42              | 15.08          | 13.72          | 1.51           | 17.24          | 17.24 | 1.58 | 19.37 | 19.37 | 1.67 | 21.50 | 21.50 | 1.78 |
|                                                                  | 560 | 4.24           | 3.90                                             | 1.18           | 6.59           | 6.06           | 1.26           | 9.53           | 8.69           | 1.34           | 12.26          | 10.89          | 1.41              | 15.27          | 13.89          | 1.49           | 17.44          | 17.44 | 1.56 | 19.61 | 19.61 | 1.64 | 21.78 | 21.78 | 1.74 |
|                                                                  | 640 | 4.37           | 4.02                                             | 1.19           | 6.78           | 6.23           | 1.26           | 9.76           | 8.90           | 1.33           | 12.60          | 11.19          | 1.40              | 15.56          | 14.16          | 1.47           | 17.80          | 17.80 | 1.52 | 20.03 | 20.03 | 1.59 | 22.26 | 22.26 | 1.68 |

See notes on pg. 19



HEAT PUMP HEATING PERFORMANCE CONTINUED

| INDOOR AIR                                                     |      | OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C) |                |                |                |                |                |                |                |                |                |                |                   |                |                |                |                |
|----------------------------------------------------------------|------|--------------------------------------------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|-------------------|----------------|----------------|----------------|----------------|
|                                                                |      | -3 (-19.4)                                       |                | 7 (-13.9)      |                | 17 (-8.3)      |                | 27 (-2.8)      |                | 37 (2.8)       |                | 47 (8.3)       |                   | 57 (13.9)      |                | 67 (19.4)      |                |
| EDB<br>° F (° C)                                               | CFM  | Capacity MBtuh                                   | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys-tem KW† | Capacity MBtuh | Total Sys. KW† | Capacity MBtuh | Total Sys. KW† |
| BH17NA036-B Outdoor Section With FV4CNB006 Indoor Section - HI |      |                                                  |                |                |                |                |                |                |                |                |                |                |                   |                |                |                |                |
| 65<br>(18.3)                                                   | 900  | 13.75                                            | 12.65          | 1.90           | 17.91          | 16.46          | 2.01           | 22.88          | 20.87          | 2.15           | 26.93          | 23.92          | 2.28              | 31.23          | 28.42          | 2.42           | 35.79          |
|                                                                | 975  | 13.88                                            | 12.77          | 1.90           | 18.06          | 16.60          | 2.00           | 23.03          | 21.00          | 2.13           | 27.11          | 24.08          | 2.25              | 31.46          | 28.63          | 2.38           | 36.10          |
|                                                                | 1050 | 13.99                                            | 12.87          | 1.90           | 18.20          | 16.72          | 1.99           | 23.16          | 21.12          | 2.11           | 27.27          | 24.22          | 2.22              | 31.66          | 28.81          | 2.35           | 36.37          |
|                                                                | 1200 | 14.18                                            | 13.05          | 1.89           | 18.44          | 16.94          | 1.98           | 23.36          | 21.30          | 2.09           | 27.54          | 24.46          | 2.19              | 32.02          | 29.14          | 2.31           | 36.81          |
| 70<br>(21.1)                                                   | 900  | 13.21                                            | 12.15          | 2.00           | 17.38          | 15.97          | 2.11           | 21.98          | 20.04          | 2.25           | 26.55          | 23.58          | 2.39              | 30.75          | 27.99          | 2.54           | 35.23          |
|                                                                | 975  | 13.33                                            | 12.26          | 1.99           | 17.52          | 16.10          | 2.10           | 22.62          | 20.63          | 2.24           | 26.72          | 23.73          | 2.36              | 30.98          | 28.19          | 2.50           | 35.54          |
|                                                                | 1050 | 13.44                                            | 12.36          | 1.99           | 17.66          | 16.23          | 2.09           | 22.76          | 20.75          | 2.22           | 26.87          | 23.86          | 2.34              | 31.18          | 28.38          | 2.47           | 35.80          |
|                                                                | 1200 | 13.63                                            | 12.54          | 1.99           | 17.89          | 16.44          | 2.08           | 22.99          | 20.96          | 2.20           | 27.13          | 24.09          | 2.30              | 31.52          | 28.69          | 2.42           | 36.23          |
| 75<br>(23.9)                                                   | 900  | 12.66                                            | 11.65          | 2.10           | 16.83          | 15.47          | 2.22           | 21.26          | 19.38          | 2.35           | 26.16          | 23.24          | 2.52              | 30.29          | 27.56          | 2.67           | 34.68          |
|                                                                | 975  | 12.77                                            | 11.75          | 2.09           | 16.98          | 15.60          | 2.21           | 21.45          | 19.56          | 2.33           | 26.31          | 23.37          | 2.48              | 30.51          | 27.76          | 2.63           | 34.98          |
|                                                                | 1050 | 12.88                                            | 11.85          | 2.09           | 17.11          | 15.72          | 2.20           | 21.63          | 19.72          | 2.32           | 26.46          | 23.50          | 2.46              | 30.70          | 27.94          | 2.59           | 35.24          |
|                                                                | 1200 | 13.05                                            | 12.01          | 2.09           | 17.31          | 15.91          | 2.19           | 21.92          | 19.98          | 2.30           | 26.72          | 23.73          | 2.42              | 31.04          | 28.24          | 2.55           | 35.66          |
| BH17NA036-B Outdoor Section With FV4CNB006 Indoor Section - LO |      |                                                  |                |                |                |                |                |                |                |                |                |                |                   |                |                |                |                |
| 65<br>(18.3)                                                   | 720  | 9.56                                             | 8.80           | 1.68           | 12.50          | 11.49          | 1.68           | 15.65          | 14.27          | 1.69           | 18.88          | 16.77          | 1.70              | 22.67          | 20.63          | 1.75           | 25.24          |
|                                                                | 780  | 9.69                                             | 8.91           | 1.68           | 12.65          | 11.62          | 1.67           | 15.82          | 14.42          | 1.67           | 19.08          | 16.95          | 1.69              | 22.85          | 20.80          | 1.73           | 25.45          |
|                                                                | 840  | 9.80                                             | 9.01           | 1.68           | 12.78          | 11.74          | 1.67           | 15.97          | 14.56          | 1.66           | 19.26          | 17.11          | 1.67              | 23.02          | 20.95          | 1.70           | 25.64          |
|                                                                | 960  | 9.97                                             | 9.17           | 1.68           | 13.00          | 11.94          | 1.66           | 16.23          | 14.80          | 1.65           | 19.57          | 17.38          | 1.65              | 23.28          | 21.19          | 1.67           | 25.95          |
| 70<br>(21.1)                                                   | 720  | 8.75                                             | 8.05           | 1.75           | 11.78          | 10.83          | 1.75           | 14.99          | 13.67          | 1.76           | 18.26          | 16.22          | 1.79              | 21.73          | 19.77          | 1.83           | 24.82          |
|                                                                | 780  | 8.86                                             | 8.15           | 1.75           | 11.92          | 10.96          | 1.74           | 15.16          | 13.82          | 1.75           | 18.47          | 16.41          | 1.77              | 22.39          | 20.38          | 1.82           | 25.02          |
|                                                                | 840  | 8.96                                             | 8.25           | 1.75           | 12.05          | 11.07          | 1.74           | 15.30          | 13.95          | 1.74           | 18.65          | 16.56          | 1.75              | 22.56          | 20.53          | 1.79           | 25.20          |
|                                                                | 960  | 9.14                                             | 8.41           | 1.75           | 12.26          | 11.27          | 1.73           | 15.56          | 14.18          | 1.73           | 18.93          | 16.81          | 1.73              | 22.84          | 20.79          | 1.76           | 25.51          |
| 75<br>(23.9)                                                   | 720  | 7.89                                             | 7.26           | 1.82           | 11.03          | 10.14          | 1.83           | 14.31          | 13.05          | 1.84           | 17.64          | 15.67          | 1.87              | 20.94          | 19.06          | 1.92           | 24.42          |
|                                                                | 780  | 7.99                                             | 7.35           | 1.82           | 11.17          | 10.26          | 1.82           | 14.47          | 13.20          | 1.83           | 17.84          | 15.84          | 1.86              | 21.19          | 19.29          | 1.89           | 24.62          |
|                                                                | 840  | 8.09                                             | 7.44           | 1.82           | 11.29          | 10.37          | 1.82           | 14.62          | 13.33          | 1.82           | 18.01          | 16.00          | 1.84              | 21.44          | 19.51          | 1.87           | 24.79          |
|                                                                | 960  | 8.25                                             | 7.59           | 1.82           | 11.44          | 10.51          | 1.81           | 14.82          | 13.51          | 1.81           | 18.25          | 16.21          | 1.82              | 21.76          | 19.80          | 1.83           | 25.07          |

See notes on pg. 19

HEAT PUMP HEATING PERFORMANCE CONTINUED

| INDOOR AIR  |       | OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C) |       |               |     |                |        |               |                |           |               |                |        |               |                |       |               |                |        |               |                |          |               |                |        |               |                |       |               |           |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
|-------------|-------|--------------------------------------------------|-------|---------------|-----|----------------|--------|---------------|----------------|-----------|---------------|----------------|--------|---------------|----------------|-------|---------------|----------------|--------|---------------|----------------|----------|---------------|----------------|--------|---------------|----------------|-------|---------------|-----------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|--------|-------|
|             |       | -3 (–19.4)                                       |       |               |     | 7 (–13.9)      |        |               |                | 17 (–8.3) |               |                |        | 27 (–2.8)     |                |       |               | 37 (2.8)       |        |               |                | 47 (8.3) |               |                |        | 57 (13.9)     |                |       |               | 67 (19.4) |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
|             |       | Capacity MBtuh                                   |       | Total Sys KWt | CFM | Capacity MBtuh |        | Total Sys KWt | Capacity MBtuh |           | Total Sys KWt | Capacity MBtuh |        | Total Sys KWt | Capacity MBtuh |       | Total Sys KWt | Capacity MBtuh |        | Total Sys KWt | Capacity MBtuh |          | Total Sys KWt | Capacity MBtuh |        | Total Sys KWt | Capacity MBtuh |       | Total Sys KWt |           |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |        |       |
| EDB °F (°C) | Total | Integ*                                           | Total | Integ*        |     | Total          | Integ* | Total         | Integ*         | Total     | Integ*        | Total          | Integ* | Total         | Integ*         | Total | Integ*        | Total          | Integ* | Total         | Integ*         | Total    | Integ*        | Total          | Integ* | Total         | Integ*         | Total | Integ*        | Total     | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total | Integ* | Total |

See notes on pg. 19

# HEAT PUMP HEATING PERFORMANCE CONTINUED

| INDOOR AIR                                                     |      |                | OUTDOOR COIL ENTERING AIR TEMPERATURES ° F (° C) |                |               |                |               |                |               |                |               |                |               |                |               |                |               |  |
|----------------------------------------------------------------|------|----------------|--------------------------------------------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|----------------|---------------|--|
| EDB<br>° F (° C)                                               | CFM  | -3 (-19.4)     |                                                  | 7 (-13.9)      |               | 17 (-8.3)      |               | 27 (-2.6)      |               | 37 (2.8)       |               | 47 (8.3)       |               | 57 (13.9)      |               | 67 (19.4)      |               |  |
|                                                                |      | Capacity MBtuh | Total Sys KW†                                    | Capacity MBtuh | Total Sys KW† | Capacity MBtuh | Total Sys KW† | Capacity MBtuh | Total Sys KW† | Capacity MBtuh | Total Sys KW† | Capacity MBtuh | Total Sys KW† | Capacity MBtuh | Total Sys KW† | Capacity MBtuh | Total Sys KW† |  |
| BH17NA060-B Outdoor Section With FV4CNB006 Indoor Section - HI |      |                |                                                  |                |               |                |               |                |               |                |               |                |               |                |               |                |               |  |
| 65<br>(18.3)                                                   | 1500 | 23.79          | 21.88                                            | 3.26           | 29.29         | 26.92          | 3.46          | 36.45          | 33.23         | 3.72           | 42.81         | 38.02          | 3.97          | 50.01          | 45.51         | 4.27           | 66.85         |  |
|                                                                | 1625 | 24.02          | 22.09                                            | 3.27           | 29.54         | 27.14          | 3.46          | 36.69          | 33.45         | 3.71           | 43.07         | 38.25          | 3.95          | 50.33          | 45.80         | 4.24           | 58.31         |  |
|                                                                | 1750 | 24.26          | 22.32                                            | 3.28           | 29.79         | 27.38          | 3.47          | 36.89          | 33.63         | 3.70           | 43.31         | 38.47          | 3.94          | 50.62          | 46.07         | 4.22           | 58.70         |  |
|                                                                | 2000 | 24.72          | 22.74                                            | 3.32           | 30.26         | 27.80          | 3.49          | 37.26          | 33.97         | 3.71           | 43.75         | 38.86          | 3.93          | 51.14          | 46.53         | 4.20           | 59.34         |  |
| 70<br>(21.1)                                                   | 1500 | 22.84          | 21.01                                            | 3.40           | 28.50         | 26.19          | 3.61          | 36.04          | 32.86         | 3.88           | 42.34         | 37.61          | 4.15          | 49.45          | 45.00         | 4.46           | 66.02         |  |
|                                                                | 1625 | 23.07          | 21.22                                            | 3.41           | 28.74         | 26.41          | 3.61          | 36.27          | 33.07         | 3.87           | 42.61         | 37.84          | 4.13          | 49.77          | 45.29         | 4.43           | 66.38         |  |
|                                                                | 1750 | 23.30          | 21.44                                            | 3.42           | 28.99         | 26.64          | 3.62          | 36.48          | 33.26         | 3.87           | 42.85         | 38.06          | 4.11          | 50.06          | 45.55         | 4.40           | 58.00         |  |
|                                                                | 2000 | 23.75          | 21.85                                            | 3.46           | 29.44         | 27.06          | 3.64          | 36.85          | 33.60         | 3.88           | 43.28         | 38.44          | 4.11          | 50.57          | 46.02         | 4.38           | 58.68         |  |
| 75<br>(23.9)                                                   | 1500 | 21.87          | 20.12                                            | 3.54           | 27.71         | 25.46          | 3.76          | 34.56          | 31.51         | 4.03           | 41.89         | 37.21          | 4.34          | 48.89          | 44.49         | 4.86           | 65.16         |  |
|                                                                | 1625 | 22.08          | 20.32                                            | 3.55           | 27.94         | 25.67          | 3.77          | 34.84          | 31.76         | 4.02           | 42.15         | 37.43          | 4.31          | 49.21          | 44.78         | 4.82           | 56.94         |  |
|                                                                | 1750 | 22.32          | 20.53                                            | 3.57           | 28.18         | 25.90          | 3.77          | 35.20          | 32.09         | 4.02           | 42.39         | 37.65          | 4.30          | 49.50          | 45.05         | 4.80           | 57.30         |  |
|                                                                | 2000 | 22.75          | 20.93                                            | 3.60           | 28.63         | 26.31          | 3.80          | 36.40          | 33.19         | 4.05           | 42.82         | 38.03          | 4.29          | 50.01          | 45.51         | 4.57           | 57.99         |  |
| BH17NA060-B Outdoor Section With FV4CNB006 Indoor Section - LO |      |                |                                                  |                |               |                |               |                |               |                |               |                |               |                |               |                |               |  |
| 65<br>(18.3)                                                   | 1200 | 13.69          | 12.59                                            | 2.67           | 19.50         | 17.92          | 2.75          | 25.04          | 22.83         | 2.84           | 30.30         | 26.91          | 2.94          | 35.80          | 32.58         | 3.07           | 39.55         |  |
|                                                                | 1300 | 13.81          | 12.71                                            | 2.68           | 19.67         | 18.08          | 2.75          | 25.29          | 23.05         | 2.83           | 30.62         | 27.19          | 2.92          | 36.10          | 32.85         | 3.04           | 39.97         |  |
|                                                                | 1400 | 13.95          | 12.83                                            | 2.69           | 19.87         | 18.26          | 2.75          | 25.53          | 23.27         | 2.83           | 30.92         | 27.46          | 2.90          | 36.39          | 33.11         | 3.01           | 40.32         |  |
|                                                                | 1600 | 14.22          | 13.08                                            | 2.71           | 20.21         | 18.57          | 2.77          | 25.94          | 23.65         | 2.82           | 31.45         | 27.93          | 2.89          | 36.86          | 33.54         | 2.97           | 40.89         |  |
| 70<br>(21.1)                                                   | 1200 | 12.56          | 11.56                                            | 2.79           | 18.42         | 16.93          | 2.87          | 23.98          | 21.87         | 2.97           | 29.23         | 25.96          | 3.07          | 35.00          | 31.85         | 3.22           | 38.74         |  |
|                                                                | 1300 | 12.73          | 11.72                                            | 2.80           | 18.60         | 17.09          | 2.87          | 24.24          | 22.10         | 2.96           | 29.55         | 26.25          | 3.05          | 35.36          | 32.17         | 3.19           | 39.13         |  |
|                                                                | 1400 | 12.89          | 11.86                                            | 2.81           | 18.80         | 17.28          | 2.88          | 24.50          | 22.33         | 2.96           | 29.87         | 26.53          | 3.04          | 35.67          | 32.46         | 3.16           | 39.50         |  |
|                                                                | 1600 | 13.13          | 12.08                                            | 2.83           | 19.16         | 17.61          | 2.89          | 24.93          | 22.73         | 2.95           | 30.41         | 27.01          | 3.02          | 36.13          | 32.88         | 3.12           | 40.09         |  |
| 75<br>(23.9)                                                   | 1200 | 12.10          | 11.14                                            | 2.92           | 17.17         | 15.78          | 3.00          | 22.80          | 20.79         | 3.10           | 28.07         | 24.93          | 3.21          | 33.24          | 30.25         | 3.34           | 37.87         |  |
|                                                                | 1300 | 12.28          | 11.30                                            | 2.93           | 17.37         | 15.96          | 3.00          | 23.05          | 21.02         | 3.09           | 28.41         | 25.23          | 3.19          | 33.69          | 30.66         | 3.31           | 38.28         |  |
|                                                                | 1400 | 12.44          | 11.44                                            | 2.94           | 17.58         | 16.15          | 3.00          | 23.32          | 21.26         | 3.09           | 28.73         | 25.51          | 3.18          | 34.38          | 31.28         | 3.30           | 38.63         |  |
|                                                                | 1600 | 11.89          | 10.94                                            | 2.95           | 17.95         | 16.50          | 3.02          | 23.79          | 21.69         | 3.09           | 29.27         | 25.99          | 3.16          | 35.34          | 32.16         | 3.28           | 39.23         |  |

**NOTE:** When the required data falls between the published data, interpolation may be performed. Extrapolation is not an acceptable practice.

\* Tested Combination

† The Btuh heating capacity values shown are net integrated values from which the defrost effect has been subtracted. The Btuh heating from supplement heaters should be added to those values to obtain total system capacity.

‡ The kW values include the compressor, outdoor fan motor, and indoor blower motor. The kW from supplement heaters should be added to these values to obtain total system kilowatts.

EDB — Entering Dry Bulb

# GUIDE SPECIFICATIONS

## GENERAL

### System Description

Outdoor-mounted, air-cooled, split-system heat pump unit suitable for ground or rooftop installation. Unit consists of a hermetic compressor, an air-cooled coil, propeller-type condenser fan, and a control box. Unit will discharge supply air upward as shown on contract drawings. Unit will be used in a refrigeration circuit to match up to a packaged fan coil or coil unit.

### Quality Assurance

- Unit will be rated in accordance with the latest edition of AHRI Standard 210.
- Unit will be certified for capacity and efficiency, and listed in the latest AHRI directory.
- Unit construction will comply with latest edition of ANSI/ASHRAE and with NEC.
- Unit will be constructed in accordance with UL standards and will carry the UL label of approval. Unit will have c-UL approval.
- Unit cabinet will be capable of withstanding Federal Test Method Standard No. 141 (Method 6061) 500-hr salt spray test.
- Air-cooled condenser coils will be leak tested and pressure tested.
- Unit constructed in ISO9001 approved facility.

### Delivery, Storage, and Handling

- Unit will be shipped as single package only and is stored and handled per unit manufacturer's recommendations.

### Warranty (for inclusion by specifying engineer)

- U.S. and Canada only.

## PRODUCTS

### Equipment

- Factory assembled, single piece, air-cooled air conditioner unit. Contained within the unit enclosure is all factory wiring, piping, controls, compressor, refrigerant charge R-410A, and special features required prior to field start-up.

### Unit Cabinet

- Unit cabinet, including dense wire coil guard, will be constructed of galvanized steel, bonderized, and coated with a powder coat paint.

### Fans

- Condenser fan will be direct-drive propeller type, discharging air upward.

## AIR-COOLED, SPLIT-SYSTEM AIR CONDITIONER

BH17NA

2 TO 5 NOMINAL TONS

- Condenser fan motors will be totally enclosed, 1-phase type with class B insulation and permanently lubricated bearings. Shafts will be corrosion resistant.
- Fan blades will be statically and dynamically balanced.
- Condenser fan openings will be equipped with coated steel wire safety guards.

### Compressor

- Compressor will be hermetically sealed.
- Compressor will be mounted on rubber vibration isolators.

### Condenser Coil

- Condenser coil will be air cooled.
- Coil will be constructed of aluminum fins mechanically bonded to copper tubes which are then cleaned, dehydrated, and sealed.

### Refrigeration Components

- Refrigeration circuit components will include liquid-line shutoff valve with sweat connections, vapor-line shutoff valve with sweat connections, system charge of R-410A refrigerant, and compressor oil.
- Unit will be equipped with high-pressure switch, low pressure switch and filter drier for R-410A refrigerant.

### Operating Characteristics

- The capacity of the unit will meet or exceed \_\_\_\_\_ Btuh at a suction temperature of \_\_\_\_\_ °F/°C. The power consumption at full load will not exceed \_\_\_\_\_ kW.
- Combination of the unit and the evaporator or fan coil unit will have a total net cooling capacity of \_\_\_\_\_ Btuh or greater at conditions of \_\_\_\_\_ CFM entering air temperature at the evaporator at \_\_\_\_\_ °F/°C wet bulb and \_\_\_\_\_ °F/°C dry bulb, and air entering the unit at \_\_\_\_\_ °F/°C.
- The system will have a SEER of \_\_\_\_\_ Btuh/watt or greater at DOE conditions.

### Electrical Requirements

- Nominal unit electrical characteristics will be \_\_\_\_\_ v, single phase, 60 hz. The unit will be capable of satisfactory operation within voltage limits of \_\_\_\_\_ v to \_\_\_\_\_ v.
- Unit electrical power will be single point connection.
- Control circuit will be 24v.

### Special Features

- Refer to section of this literature identifying accessories and descriptions for specific features and available enhancements.

## SYSTEM DESIGN SUMMARY

1. Intended for outdoor installation with free air inlet and outlet. Outdoor fan external static pressure available is less than 0.01-in. wc.
2. This product is not qualified for low ambient cooling operation (below 55°F/12.8°C) and no low ambient kit is available.
3. The maximum outdoor operating ambient in cooling mode is 125°F (51.67°C) when operating voltage is 230v. For 208v applications, the maximum outdoor ambient is 120°F (48.9°C).
4. For reliable operation, unit should be level in all horizontal planes.
5. For interconnecting refrigerant tube lengths greater than 80 ft (23.4 m) and/or 35 ft (10.7 m) vertical differential, consult Residential Piping and Longline Guideline and Service Manual available from equipment distributor.
6. If any refrigerant tubing is buried, provide a 6 in. (152.4 mm) vertical rise to the valve connections at the unit. Refrigerant tubing lengths up to 36 in. (914.4 mm) may be buried without further consideration. Do not bury refrigerant lines longer than 36 in. (914.4 mm).
7. Use only copper wire for electric connection at unit. Aluminum and clad aluminum are not acceptable for the type of connector provided.
8. Do not apply capillary tube indoor coils to these units.
9. Factory-supplied filter drier must be installed.

