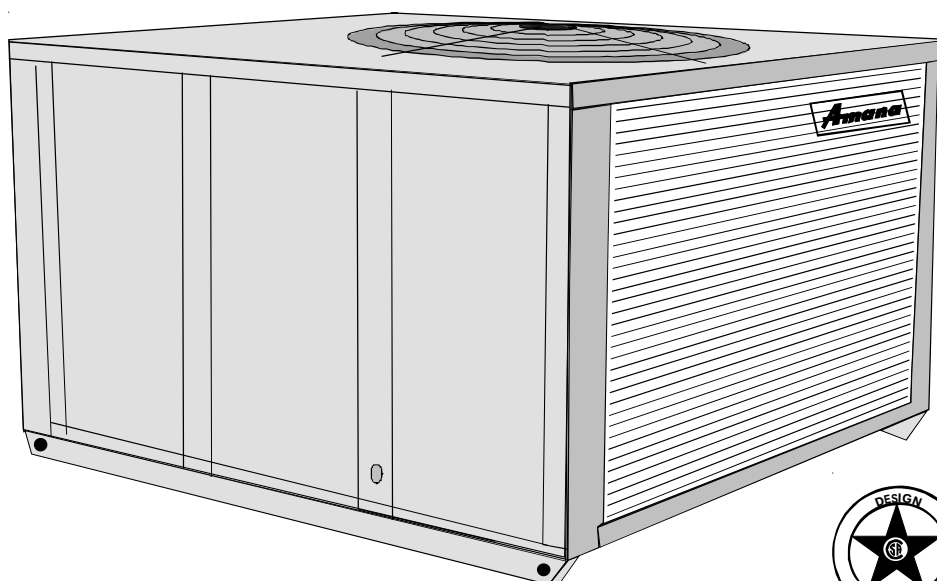


# TECHNICAL INFORMATION MANUAL

## PHB\*\*C02E /PHB\*\*C02E1/ PHB\*\*C02F1 Package Heat Pump Units

Model and Manufacturing  
numbers listed on page 3.

- Refer to Service Manual RS6300003 Rev. 1 for installation, operation, and troubleshooting information.
- All safety information must be followed as provided in the Service Manual.
- Refer to the appropriate Parts Catalog for part number information.



**Amana** Heating & Air Conditioning  
**LASTS AND LASTS AND LASTS.™**

This manual is to be used by qualified HVAC technicians only. Goodman does not assume any responsibility for property damage or personal injury due to improper service procedures performed by an unqualified person.

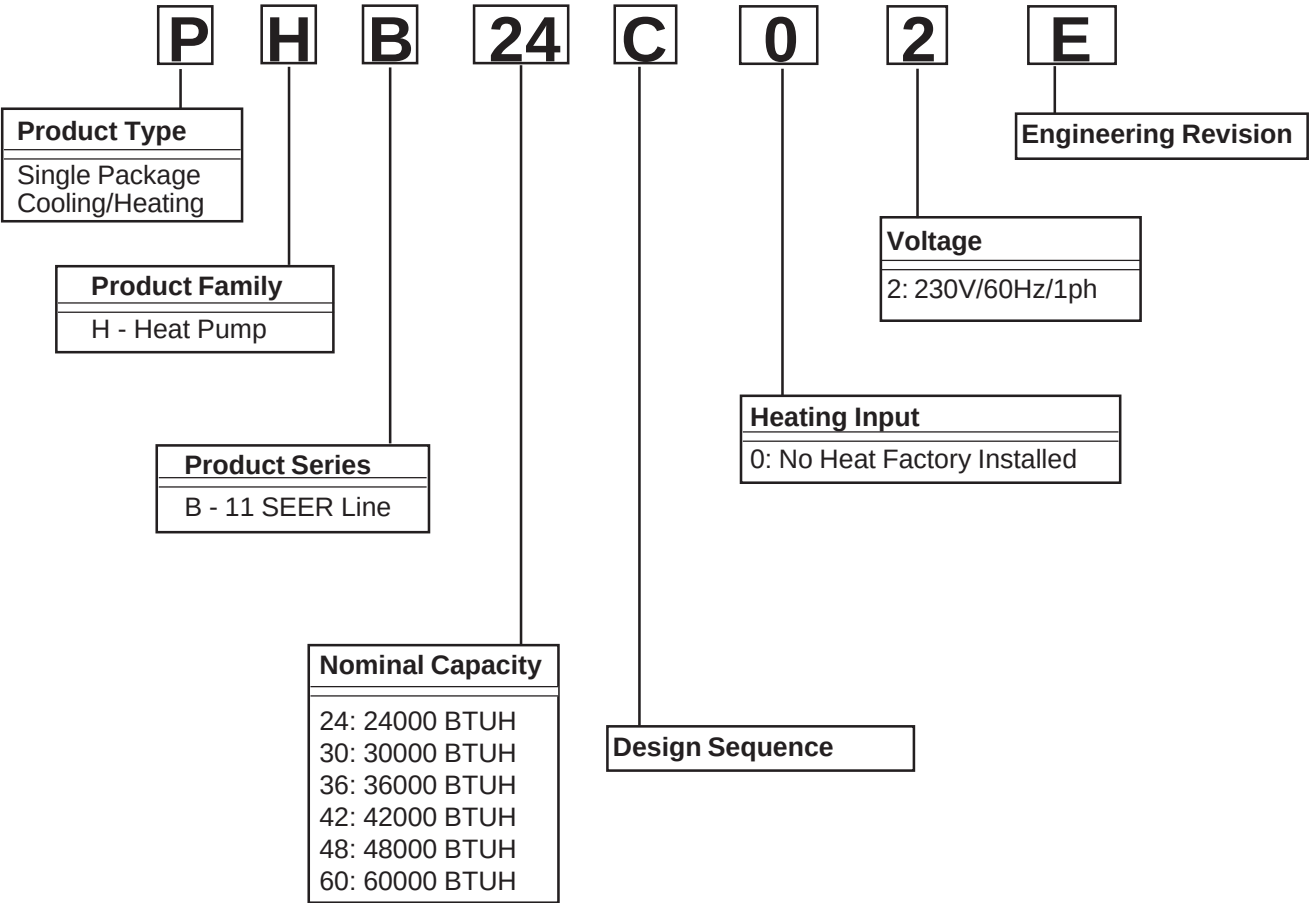
RT6331003 Rev. 3  
December 2004

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# IMPORTANT INFORMATION

The model and manufacturing number are used for positive identification of component parts used in manufacturing. Please use these numbers when requesting service or parts information.



## WARNING

IF REPAIRS ARE ATTEMPTED BY UNQUALIFIED PERSONS, DANGEROUS CONDITIONS (SUCH AS EXPOSURE TO ELECTRICAL SHOCK) MAY RESULT. THIS MAY CAUSE SERIOUS INJURY OR DEATH.



## CAUTION

AMANA WILL NOT ASSUME RESPONSIBILITY FOR ANY INJURY OR PROPERTY DAMAGE ARISING FROM IMPROPER SERVICE OR SERVICE PROCEDURES. IF YOU PERFORM SERVICE ON YOUR OWN PRODUCT, YOU ASSUME RESPONSIBILITY FOR ANY PERSONAL INJURY OR PROPERTY DAMAGE WHICH MAY RESULT.

# PRODUCT DESIGN

The model and manufacturing number are used for positive identification of component parts used in manufacturing. When engineering and manufacturing changes take place where interchangeability of components are affected, the manufacturing number will change.

It is very important to use the model and manufacturing numbers at all times when requesting service or parts information.

| <u>MODEL</u> | <u>M/N</u> | <u>MODEL</u> | <u>M/N</u> | <u>MODEL</u> | <u>M/N</u> |
|--------------|------------|--------------|------------|--------------|------------|
| PHB24C02E    | P1204501C  | PHB24C02E1   | P1239207C  | PHB24C02F1   | P1239220C  |
| PHB30C02E    | P1204502C  | PHB30C02E1   | P1239208C  | PHB30C02F1   | P1239221C  |
| PHB36C02E    | P1204503C  | PHB36C02E1   | P1239209C  | PHB36C02F1   | P1239222C  |
|              |            | PHB42C02E1   | P1239210C  | PHB42C02F1   | P1239223C  |
| PHB24C02E    | P1220101C  | PHB48C02E1   | P1239211C  | PHB48C02F1   | P1239224C  |
| PHB30C02E    | P1220102C  | PHB60C02E1   | P1239212C  | PHB60C02F1   | P1239225C  |
| PHB36C02E    | P1220103C  |              |            |              |            |
| PHB42C02E    | P1220104C  | PHB24C02E1   | P1239214C  |              |            |
| PHB48C02E    | P1220105C  | PHB30C02E1   | P1239215C  |              |            |
| PHB60C02E    | P1220106C  | PHB36C02E1   | P1239216C  |              |            |
|              |            | PHB42C02E1   | P1239217C  |              |            |
| PHB24C02E    | P1235601C  | PHB48C02E1   | P1239218C  |              |            |
| PHB30C02E    | P1235602C  | PHB60C02E1   | P1239219C  |              |            |
| PHB36C02E    | P1235603C  |              |            |              |            |
| PHB42C02E    | P1235604C  |              |            |              |            |
| PHB48C02E    | P1235605C  |              |            |              |            |
| PHB60C02E    | P1235606C  |              |            |              |            |

# PRODUCT DESIGN

Amana® PHB Package Heat Pump Units are designed for outdoor installations only in either residential or light commercial applications.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow (as noted in specification sheets). In the vertical application a matching Roof Curb is recommended.

A return air filter must be installed behind the return air grille(s) or provision must be made for a filter in an accessible location within the return air duct. The minimum filter area should not be less than those sizes listed in the Specification Section. Under no circumstances should the unit be operated without return air filters.

A 3/4" pipe is provided for removal of condensate water from the indoor coil. In order to provide proper condensate flow, a drain trap is supplied by Amana and shipped loose inside the unit for field installation. (Do not reduce the drain line size).

Refrigerant flow control is achieved by use of restrictor orifices or thermostatic expansion valves (TXV).

The single phase units use permanent split capacitors (PSC) design compressors. Starting components are therefore not required. A low microfarad run capacitor assists the compressor to start and remains in the circuit during operation.

The outdoor fan and indoor blower motors are single phase capacitor type motors.

Air for condensing (cooling cycle) or evaporation (heating cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

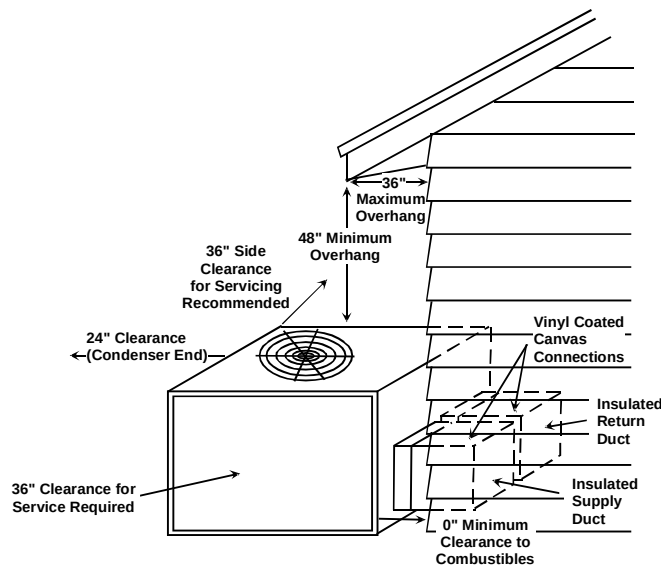
Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

PHB42, 48, & 60 series package units use the Copeland Compliant® Scroll compressor, there are a number of design characteristics which are different from the traditional reciprocating compressor.

- Due to their design Scroll compressors are inherently more tolerant of liquid refrigerant. **NOTE:** Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- These Scroll compressors use white mineral oil which is compatible with 3GS. 3GS oil may be used if additional oil is required.
- Phase 2 ("ZR\*\*K3" models) Scroll compressors equalize within 0.4 seconds after shut down and do not run backward.

- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

## Location and Clearances



In installations where the unit is installed above ground level and not serviceable from the ground (Example: roof top installations) the installer must provide service platform for service person with rails or guards in accordance with local codes or ordinances, or, in their absence, with the latest edition of the Uniform Mechanical Code Section 305.

**NOTE:** Unit can also use roof curb (and platform for leveling, where necessary) to utilize bottom discharge.

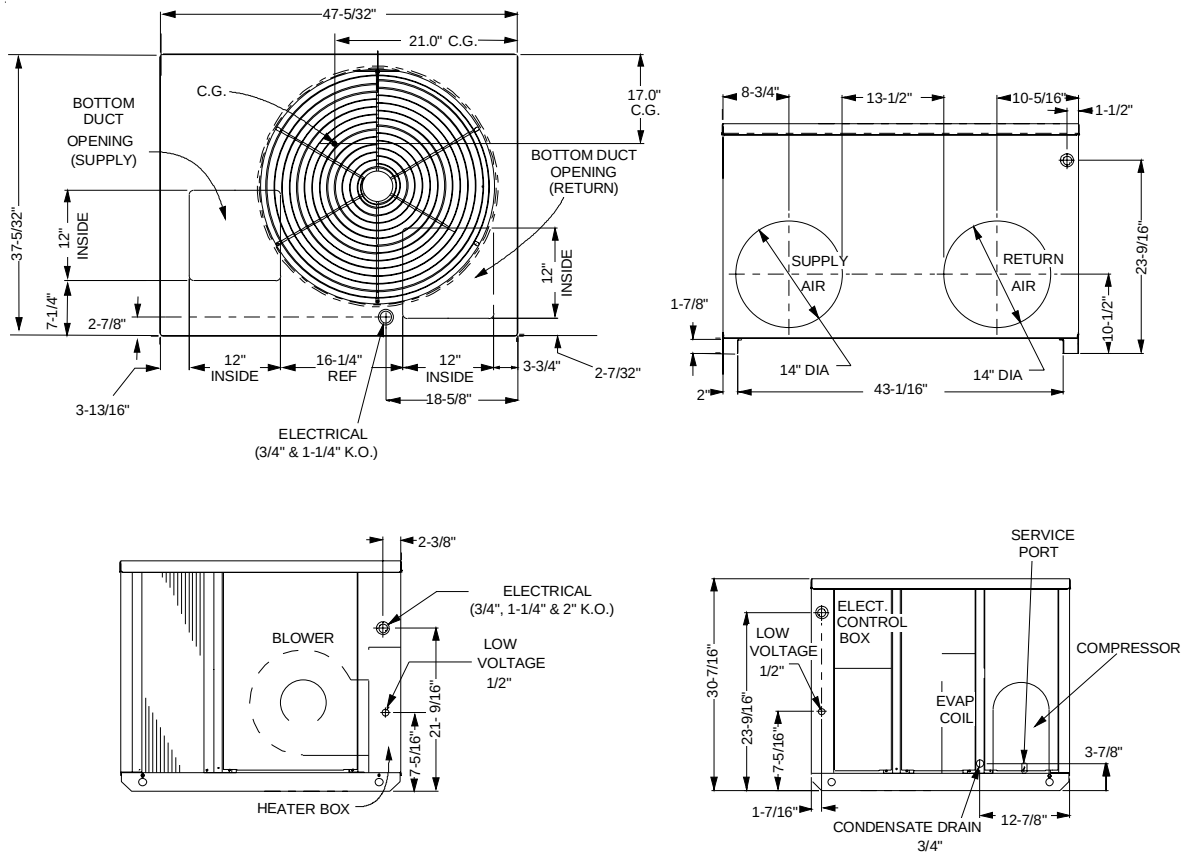
## WARNING

**TO PREVENT POSSIBLE PROPERTY DAMAGE, THE UNIT SHOULD REMAIN IN AN UPRIGHT POSITION DURING ALL RIGGING AND MOVING OPERATIONS. TO FACILITATE LIFTING AND MOVING IF A CRANE IS USED, PLACE THE UNIT IN AN ADEQUATE CABLE SLING.**

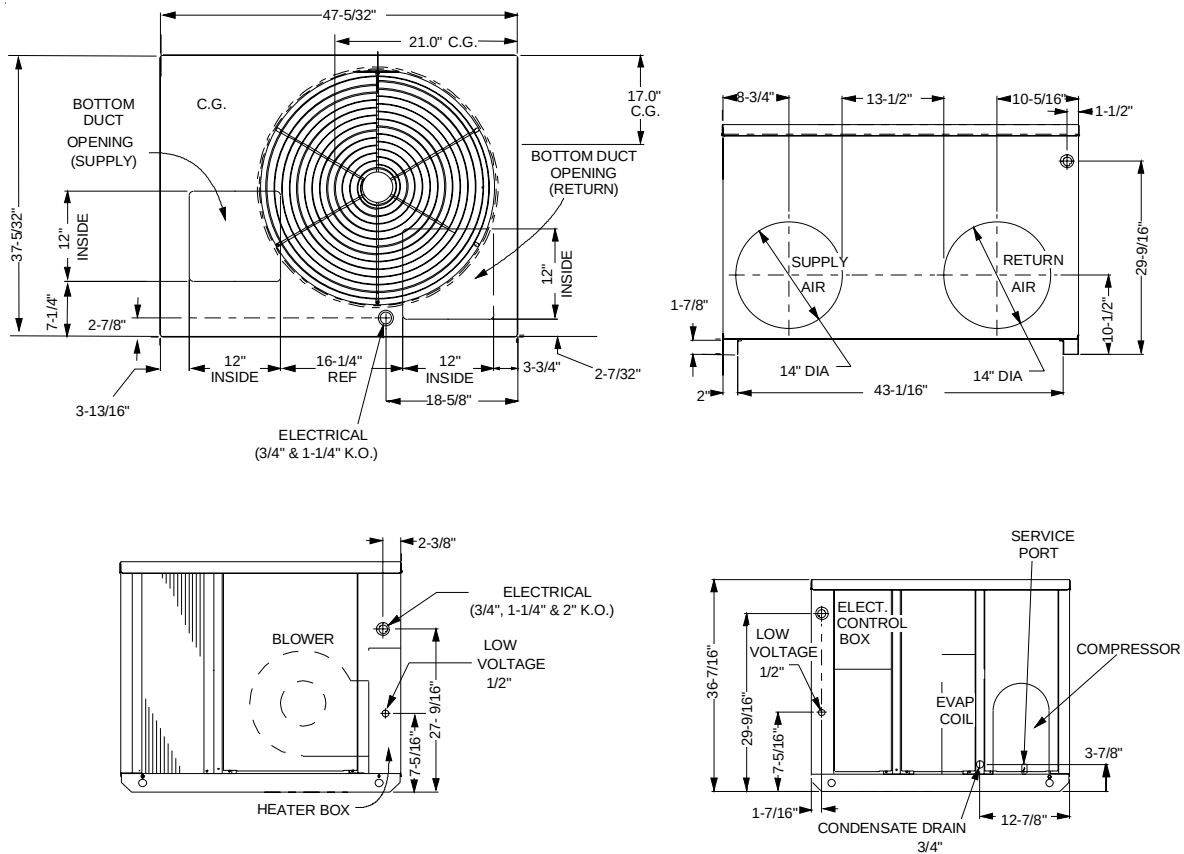
**IMPORTANT:** If using bottom discharge with roof curb, ductwork should be attached to the curb prior to installing the unit.

Refer to Roof Curb Installation Instructions for proper curb installation. Curbing must be installed in compliance with the National Roofing Contractors Association Manual.

## PRODUCT DIMENSIONS

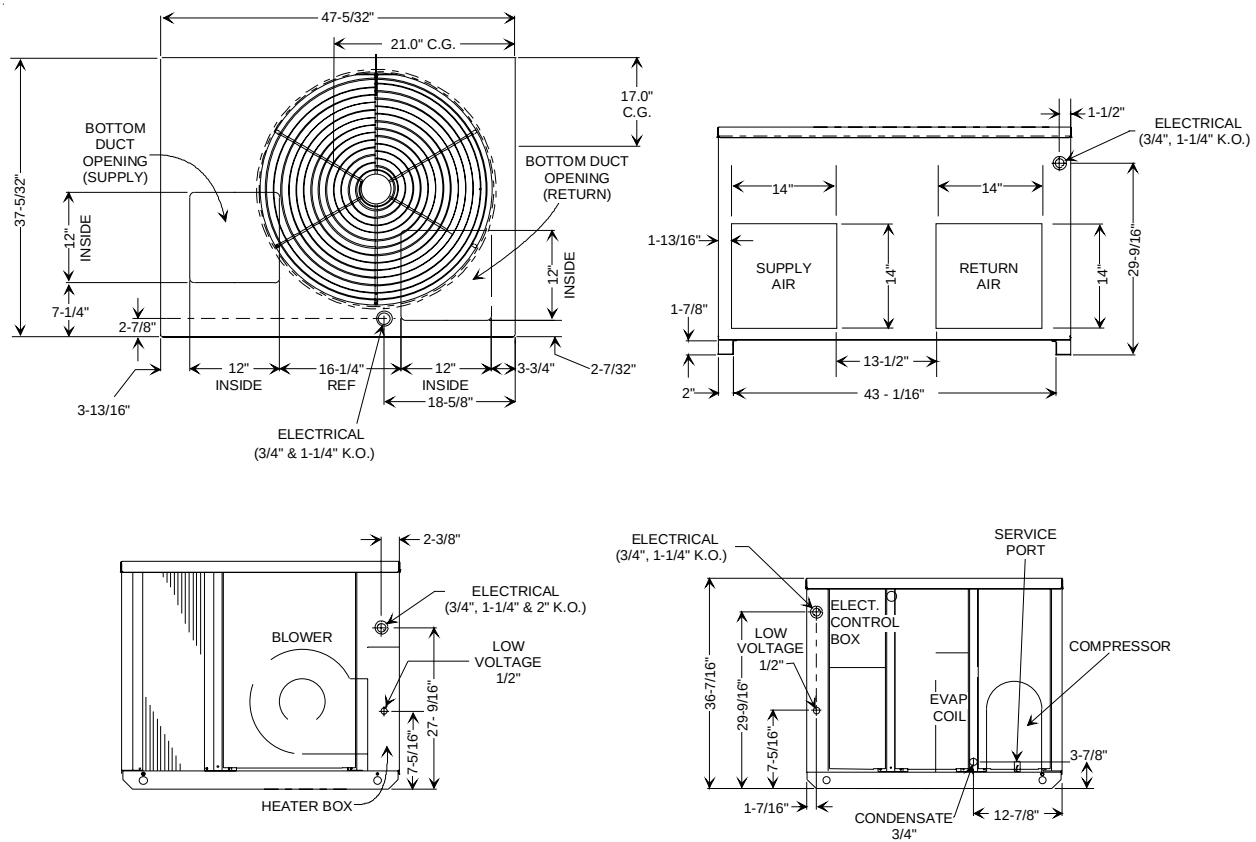


**PHB24-30-36**



**PHB42-48**

## PRODUCT DIMENSIONS



**PHB60**

# PACKAGE HEAT PUMP SPECIFICATIONS

|                                      |                                       | PHB24C02*    | PHB30C02*    | PHB36C02*    |
|--------------------------------------|---------------------------------------|--------------|--------------|--------------|
| <b>COOLING CAPACITY</b>              | COOLING CAPACITY, BTUH                | 25,000       | 29,600       | 35,400       |
|                                      | SEER                                  | 11.05        | 11.05        | 11.05        |
| <b>HEATING RATING</b>                | 47°/43°F                              | 23,800       | 28,000       | 35,400       |
|                                      | 35°/33°F                              | 17,800       | 22,400       | 25,100       |
|                                      | 17°/15°F                              | 12,000       | 14,200       | 18,400       |
|                                      | HSPF                                  | 6.8          | 6.8          | 6.8          |
| <b>UNIT ELECTRICAL SPECIFICATION</b> | VOLTAGE (NAMEPLATE)                   | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 |
|                                      | UNIT AMPS (TOTAL)                     | 15.2         | 20           | 22.0         |
|                                      | MIN CIRCUIT AMPACITY                  | 18.0         | 24.0         | 26.5         |
|                                      | MAX OVERCURRENT PROTECTION            | 25           | 30           | 35           |
| <b>COMPRESSOR</b>                    | TYPE                                  | Recip        | Recip        | Recip        |
|                                      | OPTIONAL SOUND BLANKET KIT            | CSB04A       | CSB04A       | CSB04A       |
|                                      | RATED LOAD AMPS                       | 11.2         | 16           | 18           |
|                                      | LOCKED ROTOR AMPS                     | 61.0         | 82.0         | 96.0         |
| <b>CONDENSER FAN MOTOR</b>           | HORSEPOWER                            | 1/5          | 1/5          | 1/5          |
|                                      | RPM                                   | 825          | 825          | 825          |
|                                      | FULL LOAD AMPS                        | 1.3          | 1.3          | 1.3          |
|                                      | LOCKED ROTOR AMPS                     | 2.0          | 2.0          | 2.0          |
| <b>CONDENSER FAN</b>                 | BLADE DIAMETER (INCHES) / # OF BLADES | 22 / 4       | 22 / 4       | 22 / 4       |
|                                      | CFM                                   | 2200         | 2200         | 2200         |
| <b>CONDENSER COIL</b>                | FACE AREA (SQ. FT.)                   | 10.2         | 10.2         | 10.2         |
|                                      | NUMBER OF ROWS                        | 1            | 1            | 1            |
|                                      | FINS PER INCH                         | 20           | 20           | 20           |
| <b>EVAPORATOR BLOWER MOTOR</b>       | HORSEPOWER - # OF SPEEDS              | 1/3 - 4      | 1/3 - 4      | 1/3 - 4      |
|                                      | FULL LOAD AMPS                        | 2.6          | 2.6          | 2.6          |
|                                      | LOCKED ROTOR AMPS                     | 4.2          | 4.2          | 4.2          |
|                                      | MOTOR SPEED TAP - COOLING             | LOW          | MED-LOW      | MED-HIGH     |
|                                      | RPM                                   | 790          | 840          | 960          |
| <b>EVAPORATOR BLOWER</b>             | DIAMETER X WIDTH (INCHES)             | 10 x 8       | 10 x 8       | 10 x 8       |
|                                      | RATED SCFM COOLING                    | 850          | 960          | 1170         |
|                                      | MAX EXTERNAL STATIC PRESS ("w.c.)     | 0.5          | 0.5          | 0.5          |
| <b>EVAPORATOR COIL</b>               | FACE AREA (SQ. FT.)                   | 3.2          | 3.2          | 3.2          |
|                                      | NUMBER OF ROWS                        | 3            | 4            | 4            |
|                                      | FINS PER INCH                         | 14           | 14           | 14           |
| <b>GENERAL INFORMATION</b>           | FILTER SIZE (SQ. FT.)                 | 3            | 3.4          | 4            |
|                                      | DRAIN SIZE (INCHES)                   | 3/4          | 3/4          | 3/4          |
|                                      | EXPANSION DEVICE                      | ORIFICE      | ORIFICE      | ORIFICE      |
|                                      | REFRIGERANT CHARGE R-22 (OZS.)        | 68           | 81           | 118          |
|                                      | POWER SUPPLY ENTRANCE SIZE (INCHES)   | 3/4 1-1/4    | 3/4 1-1/4    | 3/4 1-1/4    |
|                                      | LOW VOLTAGE ENTRANCE SIZE (INCHES)    | 3/4          | 3/4          | 3/4          |
|                                      | SHIPPING WEIGHT (LBS.)                | 306          | 318          | 327          |
|                                      | OPERATING WEIGHT (LBS.)               | 295          | 307          | 316          |
| <b>ACCESSORIES</b>                   | ROOFCURB - HEAT PUMP                  | PRC06A1      | PRC06A1      | PRC06A1      |
|                                      | ROOFCURB - COMBINATION                | PRC08A1      | PRC08A1      | PRC08A1      |
|                                      | SIDE-BY-SIDE TO OVER/UNDER KIT        | PDTR0U4A     | PDTR0U4A     | PDTR0U4A     |
|                                      | ELECTRIC HEATER KIT                   | PHCB**C1     | PHCB**C1     | PHCB**C1     |
|                                      | SINGLE POINT WIRING KIT *             | SPK04A       | SPK05A       | SPK06A       |
|                                      | HORIZONTAL DUCT COVER KIT             | CHK00A1      | CHK001A      | CHK001A      |
|                                      | AMBIENT THERMOSTAT KIT                | ATK01        | ATK01        | ATK01        |

\* For use with field installed 15kW and 20kW Electric Heater Kits.

**IMPORTANT:** While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters. See "Electric Heaters" in the SYSTEM OPERATION section for additional information.



## WARNING

All wires and overcurrent protection devices are sized without electric heaters. If heaters are installed with above wire size, overheating and fire could occur. Refer to heater kit installation manual for wire size and overcurrent protection device size with heaters installed. Also refer to the unit nameplate.

# PACKAGE HEAT PUMP SPECIFICATIONS

|                                      |                                       | PHB42C02*    | PHB48C02*    | PHB60C02*    |
|--------------------------------------|---------------------------------------|--------------|--------------|--------------|
| <b>COOLING CAPACITY</b>              | COOLING CAPACITY, BTUH                | 41,000       | 47,500       | 57,000       |
|                                      | SEER                                  | 11.05        | 11.05        | 11.00        |
| <b>HEATING RATING</b>                | 47°/43°F                              | 40,500       | 47,000       | 57,000       |
|                                      | 35°/33°F                              | 34,100       | 41,700       | 47,000       |
|                                      | 17°/15°F                              | 21,600       | 27,000       | 33,000       |
|                                      | HSPF                                  | 6.8          | 6.8          | 6.8          |
| <b>UNIT ELECTRICAL SPECIFICATION</b> | VOLTAGE (NAMEPLATE)                   | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 |
|                                      | UNIT AMPS (TOTAL)                     | 24           | 26.3         | 38.0         |
|                                      | MIN CIRCUIT AMPACITY                  | 28.5         | 31.1         | 45.3         |
|                                      | MAX OVERCURRENT PROTECTION            | 45           | 50           | 60           |
| <b>COMPRESSOR</b>                    | TYPE                                  | SCROLL       | SCROLL       | SCROLL       |
|                                      | OPTIONAL SOUND BLANKET KIT            | Std.         | Std.         | Std.         |
|                                      | RATED LOAD AMPS                       | 18           | 19.2         | 28.9         |
|                                      | LOCKED ROTOR AMPS                     | 103.0        | 137.0        | 148.0        |
| <b>CONDENSER FAN MOTOR</b>           | HORSEPOWER                            | 1/5          | 1/3          | 1/3          |
|                                      | RPM                                   | 825          | 825          | 1100         |
|                                      | FULL LOAD AMPS                        | 1.3          | 1.3          | 2.4          |
|                                      | LOCKED ROTOR AMPS                     | 2.0          | 2.0          | 5.8          |
| <b>CONDENSER FAN</b>                 | BLADE DIAMETER (INCHES) / # OF BLADES | 22 / 4       | 22 / 4       | 22 / 4       |
|                                      | CFM                                   | 2200         | 2200         | 3000         |
| <b>CONDENSER COIL</b>                | FACE AREA (SQ. FT.)                   | 12           | 12           | 12           |
|                                      | NUMBER OF ROWS                        | 2            | 2            | 2            |
|                                      | FINS PER INCH                         | 18           | 18           | 18           |
| <b>EVAPORATOR BLOWER MOTOR</b>       | HORSEPOWER - # OF SPEEDS              | 3/4 - 3      | 3/4 - 3      | ECM          |
|                                      | FULL LOAD AMPS                        | 4.7          | 4.7          | 6.8          |
|                                      | LOCKED ROTOR AMPS                     | 12.2         | 12.2         | ECM          |
|                                      | MOTOR SPEED TAP - COOLING             | LOW          | MED          | VARIABLE     |
|                                      | RPM                                   | 900          | 1000         | VARIABLE     |
| <b>EVAPORATOR BLOWER</b>             | DIAMETER X WIDTH (INCHES)             | 10 x 8       | 10 x 8       | 10 x 8       |
|                                      | RATED SCFM COOLING                    | 1350         | 1550         | 1750         |
|                                      | MAX EXTERNAL STATIC PRESS ("w.c.)     | 0.5          | 0.5          | 0.5          |
| <b>EVAPORATOR COIL</b>               | FACE AREA (SQ. FT.)                   | 5.2          | 5.2          | 4.4          |
|                                      | NUMBER OF ROWS                        | 4            | 4            | 4            |
|                                      | FINS PER INCH                         | 14           | 14           | 14           |
| <b>GENERAL INFORMATION</b>           | FILTER SIZE (SQ. FT.)                 | 4.5          | 5.5          | 6.5          |
|                                      | DRAIN SIZE (INCHES)                   | 3/4          | 3/4          | 3/4          |
|                                      | EXPANSION DEVICE                      | TXV          | TXV          | TXV          |
|                                      | REFRIGERANT CHARGE R-22 (OZS.)        | 140          | 150          | 150          |
|                                      | POWER SUPPLY ENTRANCE SIZE (INCHES)   | 3/4 1-1/4    | 3/4 1-1/4    | 3/4 1-1/4    |
|                                      | LOW VOLTAGE ENTRANCE SIZE (INCHES)    | 3/4          | 3/4          | 3/4          |
|                                      | SHIPPING WEIGHT (LBS.)                | 375          | 378          | 383          |
|                                      | OPERATING WEIGHT (LBS.)               | 362          | 365          | 370          |
|                                      |                                       |              |              |              |
| <b>ACCESSORIES</b>                   | ROOFCURB - HEAT PUMP                  | PRC06A1      | PRC06A1      | PRC06A1      |
|                                      | ROOFCURB - COMBINATION                | PRC08A1      | PRC08A1      | PRC08A1      |
|                                      | SIDE-BY-SIDE TO OVER/UNDER KIT        | PDTR0U4A     | PDTR0U4A     | PDTR0U4A     |
|                                      | ELECTRIC HEATER KIT                   | PHCB**C1     | PHCB**C1     | PHCB**C1     |
|                                      | SINGLE POINT WIRING KIT *             | SPK07A       | SPK08A       | SPK09A       |
|                                      | HORIZONTAL DUCT COVER KIT             | CHK00A1      | CHK001A      | CHK001A      |
|                                      | AMBIENT THERMOSTAT KIT                | ATK01        | ATK01        | ATK01        |
|                                      |                                       |              |              |              |

\* For use with field installed 15kW and 20kW Electric Heater Kits.

**IMPORTANT:** While this data is presented as a guide, it is important to electrically connect the unit and properly size wires and fuses/circuit breakers in accordance with the National Electrical Code and/or all local codes. Data shown is w/o electric heaters. See "Electric Heaters" in the SYSTEM OPERATION section for additional information.



## WARNING

All wires and overcurrent protection devices are sized without electric heaters. If heaters are installed with above wire size, overheating and fire could occur. Refer to heater kit installation manual for wire size and overcurrent protection device size with heaters installed. Also refer to the unit nameplate.

# BLOWER PERFORMANCE DATA

## Dry Coil Data

| PHB 24, 30, 36C02*        |           |       |         |       |          |       |      |       |
|---------------------------|-----------|-------|---------|-------|----------|-------|------|-------|
| Unit Static<br>(In. W.C.) | Fan Speed |       |         |       |          |       |      |       |
|                           | Low       |       | Med-Low |       | Med-High |       | High |       |
|                           | CFM       | Watts | CFM     | Watts | CFM      | Watts | CFM  | Watts |
| 0.1                       | 840       | 230   | 1010    | 295   | 1230     | 385   | 1660 | 550   |
| 0.2                       | 820       | 225   | 990     | 287   | 1205     | 372   | 1600 | 530   |
| 0.3                       | 800       | 220   | 970     | 280   | 1180     | 360   | 1540 | 510   |
| 0.4                       | 770       | 210   | 940     | 270   | 1150     | 345   | 1480 | 485   |
| 0.5                       | 735       | 200   | 905     | 260   | 1110     | 330   | 1420 | 460   |
| 0.6                       | 700       | 185   | 850     | 250   | 1060     | 305   | 1350 | 435   |
| 0.7                       | 660       | 170   | 790     | 235   | 1005     | 290   | 1280 | 410   |
| 0.8                       | 605       | 155   | 700     | 220   | 905      | 275   | 1205 | 390   |

Shaded area shows blower performance outside allowable duct static. For reference only.

| PHB42,48C02E/E1             |           |       |      |       |      |       |
|-----------------------------|-----------|-------|------|-------|------|-------|
| UNIT<br>STATIC<br>(in W.C.) | FAN SPEED |       |      |       |      |       |
|                             | LOW       |       | MED  |       | HIGH |       |
|                             | CFM       | WATTS | CFM  | WATTS | CFM  | WATTS |
| 0.2                         | 1540      | 620   | 1780 | 735   | 2265 | 1010  |
| 0.3                         | 1520      | 600   | 1755 | 705   | 2160 | 965   |
| 0.4                         | 1495      | 575   | 1700 | 670   | 2095 | 925   |
| 0.5                         | 1460      | 555   | 1640 | 640   | 1980 | 880   |
| 0.6                         | 1400      | 520   | 1570 | 600   | 1885 | 840   |
| 0.7                         | 1335      | 490   | 1500 | 570   | 1770 | 795   |
| 0.8                         | 1260      | 450   | 1400 | 520   | 1650 | 750   |

Shaded area shows blower performance outside allowable duct static. For reference only.

| PHB60C02*        |               |                        |                  |               |                        |
|------------------|---------------|------------------------|------------------|---------------|------------------------|
| COOLING<br>SPEED | ADJUST<br>TAB | CFM @<br>0.1 - 0.5 ESP | Heating<br>Speed | Adjust<br>Tab | CFM @<br>0.1 - 0.5 ESP |
| A                | Minus         | 1215                   | A                | Minus         | 1305                   |
| A                | Normal        | 1350                   | A                | Normal        | 1450                   |
| A                | Plus          | 1485                   | A                | Plus          | 1595                   |
| B                | Minus         | 1395                   | B                | Minus         | 1485                   |
| B                | Normal        | 1550                   | B                | Normal        | 1650                   |
| B                | Plus          | 1705                   | B                | Plus          | 1815                   |
| C                | Minus         | 1575                   | C                | Minus         | 1665                   |
| C                | Normal        | 1750                   | C                | Normal        | 1850                   |
| C                | Plus          | 1925                   | C                | Plus          | 2000                   |
| D                | Minus         | 1765                   | D                | Minus         | 1800                   |
| D                | Normal        | 1950                   | D                | Normal        | 2000                   |
| D                | Plus          | 2000                   | D                | Plus          | 2000                   |

# BLOWER PERFORMANCE DATA

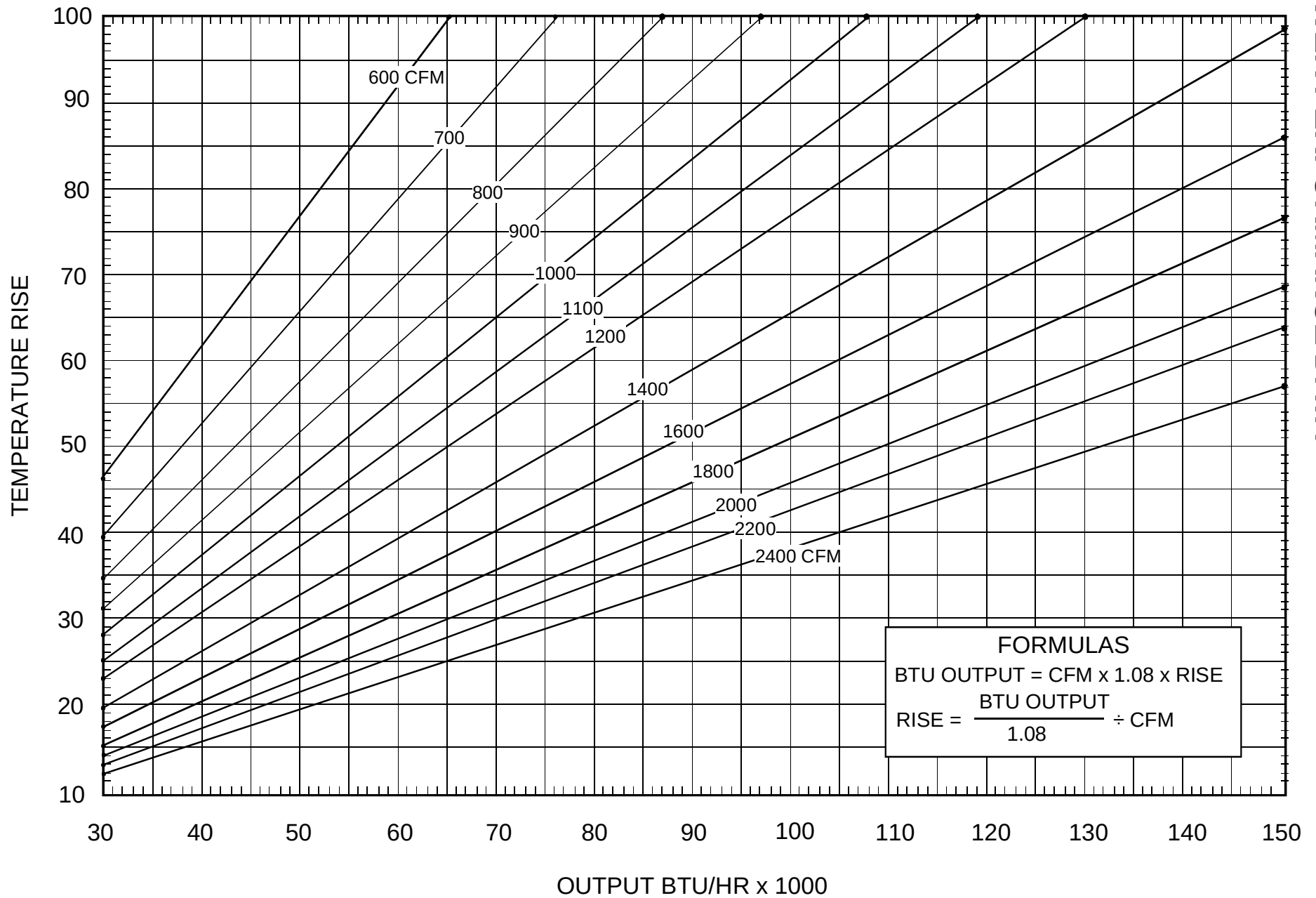
PHB60C02\*

ECM CIRCULATOR BLOWER SPEED TAP ADJUSTMENT JUMPER PINS

PHD42C02\* FACTORY SETTING

|                                                                                                                                                                                                                        | ADJUST                                                                              | CFM  | (COOL)                                                                              | CFM  | (HEAT)                                                                               |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|------|-------------------------------------------------------------------------------------|------|--------------------------------------------------------------------------------------|
| NORM                                                                                                                                                                                                                   |  A | 1350 |  A | 1450 |  A |
| (+)                                                                                                                                                                                                                    |  B | 1550 |  B | 1650 |  B |
| (-)                                                                                                                                                                                                                    |  C | 1750 |  C | 1850 |  C |
| TEST                                                                                                                                                                                                                   |  D | 1950 |  D | 2000 |  D |
| <p><b>IMPORTANT NOTE:</b> Disconnect pwer to unit before moving jumper to prevent damage to TAP board. Jumper must be placed parallel with the letter marked on board. Cross jumper may cause damage to TAP board.</p> |                                                                                     |      |                                                                                     |      |                                                                                      |

BTU OUTPUT vs TEMPERATURE RISE CHART



## EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB24C02\*

COOLING PERFORMANCE DATA

| IDB* Airflow |       |         | Outdoor Ambient Temperature          |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|--------------|-------|---------|--------------------------------------|------|------|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|              |       |         | 65                                   |      |      |     | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |    |
|              |       |         | Entering Indoor Wet Bulb Temperature |      |      |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |
|              |       |         | 59                                   | 63   | 67   | 71  | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71 |
| 70           | 950   | MBh     | 24.1                                 | 25.0 | 27.4 | -   | 23.6 | 24.4 | 26.8 | -    | 23.0 | 23.9 | 26.1 | -    | 22.5 | 23.3 | 25.5 | -    | 21.3 | 22.1 | 24.2 | -    | 19.8 | 20.5 | 22.4 | -  |
|              |       | S/T     | 0.71                                 | 0.59 | 0.41 | -   | 0.74 | 0.61 | 0.43 | -    | 0.75 | 0.63 | 0.44 | -    | 0.78 | 0.65 | 0.45 | -    | 0.81 | 0.68 | 0.47 | -    | 0.82 | 0.68 | 0.47 | -  |
|              |       | Delta T | 17                                   | 14   | 11   | -   | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 14   | 11   | -    | 16   | 13   | 10   | -  |
|              |       | KW      | 2.12                                 | 2.17 | 2.24 | -   | 2.28 | 2.33 | 2.41 | -    | 2.43 | 2.48 | 2.56 | -    | 2.55 | 2.61 | 2.69 | -    | 2.66 | 2.71 | 2.80 | -    | 2.75 | 2.81 | 2.90 | -  |
|              |       | AMPS    | 9.2                                  | 9.4  | 9.7  | -   | 9.9  | 10.1 | 10.4 | -    | 10.6 | 10.9 | 11.2 | -    | 11.3 | 11.5 | 11.9 | -    | 11.9 | 12.2 | 12.6 | -    | 12.6 | 12.8 | 13.2 | -  |
|              |       | HI PR   | 159                                  | 171  | 181  | -   | 178  | 192  | 203  | -    | 203  | 218  | 230  | -    | 231  | 249  | 263  | -    | 260  | 280  | 295  | -    | 287  | 309  | 326  | -  |
|              | LO PR | 64      | 68                                   | 74   | -    | 67  | 72   | 78   | -    | 70   | 75   | 81   | -    | 74   | 78   | 85   | -    | 77   | 82   | 90   | -    | 80   | 85   | 93   | -    |    |
|              | 850   | MBh     | 23.8                                 | 24.7 | 27.0 | -   | 23.2 | 24.1 | 26.4 | -    | 22.7 | 23.5 | 25.8 | -    | 22.1 | 22.9 | 25.1 | -    | 21.0 | 21.8 | 23.9 | -    | 19.5 | 20.2 | 22.1 | -  |
|              |       | S/T     | 0.68                                 | 0.57 | 0.39 | -   | 0.70 | 0.59 | 0.41 | -    | 0.72 | 0.60 | 0.42 | -    | 0.75 | 0.62 | 0.43 | -    | 0.77 | 0.65 | 0.45 | -    | 0.78 | 0.65 | 0.45 | -  |
|              |       | Delta T | 17                                   | 15   | 11   | -   | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 16   | 14   | 11   | -  |
|              |       | KW      | 2.11                                 | 2.16 | 2.22 | -   | 2.27 | 2.32 | 2.39 | -    | 2.41 | 2.46 | 2.54 | -    | 2.54 | 2.59 | 2.68 | -    | 2.64 | 2.70 | 2.79 | -    | 2.73 | 2.79 | 2.88 | -  |
|              |       | AMPS    | 9.2                                  | 9.4  | 9.6  | -   | 9.8  | 10.0 | 10.3 | -    | 10.6 | 10.8 | 11.1 | -    | 11.2 | 11.5 | 11.8 | -    | 11.9 | 12.1 | 12.5 | -    | 12.5 | 12.8 | 13.2 | -  |
|              |       | HI PR   | 158                                  | 170  | 179  | -   | 177  | 191  | 201  | -    | 201  | 217  | 229  | -    | 229  | 247  | 261  | -    | 258  | 278  | 293  | -    | 285  | 307  | 324  | -  |
|              | LO PR | 63      | 67                                   | 74   | -    | 67  | 71   | 78   | -    | 70   | 74   | 81   | -    | 73   | 78   | 85   | -    | 77   | 81   | 89   | -    | 79   | 84   | 92   | -    |    |
|              | 750   | MBh     | 22.6                                 | 23.4 | 25.7 | -   | 22.1 | 22.9 | 25.1 | -    | 21.5 | 22.3 | 24.5 | -    | 21.0 | 21.8 | 23.9 | -    | 20.0 | 20.7 | 22.7 | -    | 18.5 | 19.2 | 21.0 | -  |
|              |       | S/T     | 0.65                                 | 0.54 | 0.38 | -   | 0.68 | 0.56 | 0.39 | -    | 0.69 | 0.58 | 0.40 | -    | 0.71 | 0.60 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.75 | 0.62 | 0.43 | -  |
|              |       | Delta T | 18                                   | 16   | 12   | -   | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -  |
|              |       | KW      | 2.08                                 | 2.12 | 2.19 | -   | 2.24 | 2.28 | 2.35 | -    | 2.37 | 2.42 | 2.50 | -    | 2.49 | 2.55 | 2.63 | -    | 2.60 | 2.65 | 2.74 | -    | 2.69 | 2.75 | 2.84 | -  |
| AMPS         |       | 9.0     | 9.2                                  | 9.5  | -    | 9.7 | 9.9  | 10.2 | -    | 10.4 | 10.6 | 10.9 | -    | 11.0 | 11.3 | 11.6 | -    | 11.7 | 11.9 | 12.3 | -    | 12.3 | 12.6 | 12.9 | -    |    |
| HI PR        |       | 155     | 166                                  | 176  | -    | 174 | 187  | 197  | -    | 197  | 212  | 224  | -    | 225  | 242  | 255  | -    | 253  | 272  | 287  | -    | 279  | 301  | 318  | -    |    |
| LO PR        | 62    | 66      | 72                                   | -    | 66   | 70  | 76   | -    | 68   | 73   | 79   | -    | 72   | 76   | 83   | -    | 75   | 80   | 87   | -    | 78   | 83   | 90   | -    |      |    |

|    |     |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|-----|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75 | 950 | MBh     | 24.6 | 25.3 | 27.4 | 29.4 | 24.0 | 24.7 | 26.7 | 28.7 | 23.4 | 24.1 | 26.1 | 28.0 | 22.8 | 23.5 | 25.5 | 27.3 | 21.7 | 22.3 | 24.2 | 25.9 | 20.1 | 20.7 | 22.4 | 24.0 |
|    |     | S/T     | 0.81 | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.89 | 0.79 | 0.60 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.93 | 0.83 | 0.63 | 0.40 |
|    |     | Delta T | 19   | 18   | 14   | 10   | 19   | 18   | 15   | 10   | 19   | 18   | 15   | 10   | 20   | 18   | 15   | 10   | 19   | 18   | 15   | 10   | 18   | 17   | 14   | 9    |
|    |     | KW      | 2.14 | 2.19 | 2.25 | 2.32 | 2.30 | 2.35 | 2.43 | 2.50 | 2.45 | 2.50 | 2.58 | 2.66 | 2.57 | 2.63 | 2.71 | 2.80 | 2.68 | 2.74 | 2.83 | 2.92 | 2.77 | 2.83 | 2.93 | 3.02 |
|    |     | AMPS    | 9.3  | 9.5  | 9.8  | 10.1 | 10.0 | 10.2 | 10.5 | 10.8 | 10.7 | 10.9 | 11.3 | 11.7 | 11.4 | 11.6 | 12.0 | 12.4 | 12.0 | 12.3 | 12.7 | 13.1 | 12.7 | 13.0 | 13.4 | 13.8 |
|    |     | HI PR   | 161  | 173  | 182  | 190  | 180  | 194  | 205  | 214  | 205  | 220  | 233  | 243  | 233  | 251  | 265  | 277  | 263  | 283  | 298  | 311  | 290  | 312  | 330  | 344  |
|    | 850 | LO PR   | 64   | 69   | 75   | 80   | 68   | 72   | 79   | 84   | 71   | 75   | 82   | 88   | 74   | 79   | 86   | 92   | 78   | 83   | 90   | 96   | 81   | 86   | 94   | 100  |
|    |     | MBh     | 24.2 | 24.9 | 27.0 | 28.9 | 23.6 | 24.3 | 26.3 | 28.3 | 23.1 | 23.7 | 25.7 | 27.6 | 22.5 | 23.2 | 25.1 | 26.9 | 21.4 | 22.0 | 23.8 | 25.6 | 19.8 | 20.4 | 22.1 | 23.7 |
|    |     | S/T     | 0.77 | 0.69 | 0.52 | 0.34 | 0.80 | 0.72 | 0.54 | 0.35 | 0.82 | 0.73 | 0.56 | 0.36 | 0.85 | 0.76 | 0.57 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.89 | 0.79 | 0.60 | 0.39 |
|    |     | Delta T | 20   | 19   | 15   | 11   | 20   | 19   | 15   | 11   | 20   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 20   | 19   | 15   | 11   | 19   | 18   | 14   | 10   |
|    |     | KW      | 2.13 | 2.17 | 2.24 | 2.31 | 2.29 | 2.34 | 2.41 | 2.49 | 2.43 | 2.48 | 2.56 | 2.65 | 2.56 | 2.61 | 2.70 | 2.79 | 2.66 | 2.72 | 2.81 | 2.90 | 2.76 | 2.82 | 2.91 | 3.01 |
|    |     | AMPS    | 9.2  | 9.4  | 9.7  | 10.0 | 9.9  | 10.1 | 10.4 | 10.7 | 10.7 | 10.9 | 11.2 | 11.6 | 11.3 | 11.6 | 11.9 | 12.3 | 12.0 | 12.2 | 12.6 | 13.0 | 12.6 | 12.9 | 13.3 | 13.7 |
|    | 750 | HI PR   | 159  | 172  | 181  | 189  | 179  | 193  | 203  | 212  | 203  | 219  | 231  | 241  | 232  | 249  | 263  | 275  | 261  | 281  | 296  | 309  | 288  | 310  | 327  | 341  |
|    |     | LO PR   | 64   | 68   | 74   | 79   | 68   | 72   | 79   | 84   | 70   | 75   | 82   | 87   | 74   | 79   | 86   | 91   | 77   | 82   | 90   | 96   | 80   | 85   | 93   | 99   |
|    |     | MBh     | 23.0 | 23.7 | 25.6 | 27.5 | 22.4 | 23.1 | 25.0 | 26.8 | 21.9 | 22.6 | 24.4 | 26.2 | 21.4 | 22.0 | 23.8 | 25.6 | 20.3 | 20.9 | 22.6 | 24.3 | 18.8 | 19.4 | 21.0 | 22.5 |
|    |     | S/T     | 0.74 | 0.66 | 0.50 | 0.32 | 0.77 | 0.69 | 0.52 | 0.33 | 0.79 | 0.70 | 0.53 | 0.34 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.85 | 0.76 | 0.58 | 0.37 |
|    |     | Delta T | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 19   | 16   | 11   | 20   | 18   | 15   | 10   |
|    |     | KW      | 2.10 | 2.14 | 2.21 | 2.27 | 2.25 | 2.30 | 2.37 | 2.45 | 2.39 | 2.44 | 2.52 | 2.60 | 2.52 | 2.57 | 2.65 | 2.74 | 2.62 | 2.68 | 2.76 | 2.86 | 2.71 | 2.77 | 2.86 | 2.96 |
|    |     | AMPS    | 9.1  | 9.3  | 9.6  | 9.9  | 9.7  | 9.9  | 10.2 | 10.6 | 10.5 | 10.7 | 11.0 | 11.4 | 11.1 | 11.4 | 11.7 | 12.1 | 11.8 | 12.0 | 12.4 | 12.8 | 12.4 | 12.7 | 13.1 | 13.5 |
|    |     | HI PR   | 156  | 168  | 178  | 185  | 175  | 189  | 199  | 208  | 199  | 215  | 227  | 236  | 227  | 244  | 258  | 269  | 255  | 275  | 290  | 303  | 282  | 304  | 321  | 335  |
|    |     | LO PR   | 63   | 67   | 73   | 78   | 66   | 70   | 77   | 82   | 69   | 73   | 80   | 85   | 72   | 77   | 84   | 89   | 76   | 81   | 88   | 94   | 78   | 83   | 91   | 97   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB24C02\*

COOLING PERFORMANCE DATA

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
| IDB* | Airflow |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |         |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 80   | 950     | MBh     | 25.0                                 | 25.5 | 27.3 | 29.2 | 24.4 | 24.9 | 26.6 | 28.5 | 23.8 | 24.3 | 26.0 | 27.8 | 23.2 | 23.8 | 25.4 | 27.1 | 22.1 | 22.6 | 24.1 | 25.8 | 20.5 | 20.9 | 22.3 | 23.9 |
|      |         | S/T     | 0.89                                 | 0.83 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.97 | 0.91 | 0.74 | 0.55 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 0.95 | 0.78 | 0.58 |
|      |         | Delta T | 21                                   | 21   | 18   | 14   | 22   | 21   | 18   | 14   | 22   | 21   | 18   | 14   | 22   | 21   | 18   | 15   | 21   | 21   | 18   | 14   | 20   | 19   | 17   | 13   |
|      |         | KW      | 2.16                                 | 2.20 | 2.27 | 2.34 | 2.32 | 2.37 | 2.45 | 2.52 | 2.47 | 2.52 | 2.60 | 2.68 | 2.59 | 2.65 | 2.74 | 2.83 | 2.70 | 2.76 | 2.85 | 2.95 | 2.79 | 2.86 | 2.95 | 3.05 |
|      |         | AMPS    | 9.4                                  | 9.6  | 9.8  | 10.2 | 10.0 | 10.3 | 10.5 | 10.9 | 10.8 | 11.0 | 11.4 | 11.7 | 11.5 | 11.7 | 12.1 | 12.5 | 12.1 | 12.4 | 12.8 | 13.2 | 12.8 | 13.1 | 13.5 | 13.9 |
|      |         | HI PR   | 162                                  | 175  | 184  | 192  | 182  | 196  | 207  | 216  | 207  | 223  | 235  | 245  | 236  | 254  | 268  | 279  | 265  | 285  | 301  | 314  | 293  | 315  | 333  | 347  |
|      |         | LO PR   | 65                                   | 69   | 76   | 81   | 69   | 73   | 80   | 85   | 71   | 76   | 83   | 88   | 75   | 80   | 87   | 93   | 79   | 84   | 91   | 97   | 81   | 87   | 95   | 101  |
|      | 850     | MBh     | 24.6                                 | 25.2 | 26.9 | 28.7 | 24.0 | 24.6 | 26.3 | 28.1 | 23.5 | 24.0 | 25.6 | 27.4 | 22.9 | 23.4 | 25.0 | 26.7 | 21.8 | 22.2 | 23.8 | 25.4 | 20.2 | 20.6 | 22.0 | 23.5 |
|      |         | S/T     | 0.85                                 | 0.80 | 0.65 | 0.48 | 0.88 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.97 | 0.91 | 0.74 | 0.55 | 0.97 | 0.91 | 0.74 | 0.56 |
|      |         | Delta T | 23                                   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 21   | 20   | 18   | 14   |
|      |         | KW      | 2.15                                 | 2.19 | 2.26 | 2.33 | 2.31 | 2.36 | 2.43 | 2.51 | 2.45 | 2.50 | 2.59 | 2.67 | 2.58 | 2.63 | 2.72 | 2.81 | 2.69 | 2.74 | 2.83 | 2.93 | 2.78 | 2.84 | 2.93 | 3.03 |
|      |         | AMPS    | 9.3                                  | 9.5  | 9.8  | 10.1 | 10.0 | 10.2 | 10.5 | 10.8 | 10.7 | 11.0 | 11.3 | 11.7 | 11.4 | 11.7 | 12.0 | 12.4 | 12.1 | 12.3 | 12.7 | 13.1 | 12.7 | 13.0 | 13.4 | 13.9 |
|      |         | HI PR   | 161                                  | 173  | 183  | 191  | 181  | 194  | 205  | 214  | 206  | 221  | 234  | 244  | 234  | 252  | 266  | 277  | 263  | 283  | 299  | 312  | 291  | 313  | 331  | 345  |
|      |         | LO PR   | 65                                   | 69   | 75   | 80   | 68   | 73   | 79   | 84   | 71   | 76   | 82   | 88   | 75   | 79   | 87   | 92   | 78   | 83   | 91   | 97   | 81   | 86   | 94   | 100  |
|      | 750     | MBh     | 23.4                                 | 23.9 | 25.5 | 27.3 | 22.8 | 23.3 | 24.9 | 26.7 | 22.3 | 22.8 | 24.3 | 26.0 | 21.8 | 22.2 | 23.8 | 25.4 | 20.7 | 21.1 | 22.6 | 24.1 | 19.1 | 19.6 | 20.9 | 22.3 |
|      |         | S/T     | 0.81                                 | 0.76 | 0.62 | 0.46 | 0.84 | 0.79 | 0.64 | 0.48 | 0.86 | 0.81 | 0.66 | 0.49 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.87 | 0.71 | 0.53 | 0.93 | 0.87 | 0.71 | 0.53 |
|      |         | Delta T | 23                                   | 22   | 19   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 23   | 22   | 20   | 16   | 22   | 21   | 18   | 15   |
|      |         | KW      | 2.11                                 | 2.16 | 2.22 | 2.29 | 2.27 | 2.32 | 2.39 | 2.47 | 2.41 | 2.46 | 2.54 | 2.63 | 2.54 | 2.59 | 2.68 | 2.76 | 2.64 | 2.70 | 2.79 | 2.88 | 2.73 | 2.79 | 2.88 | 2.98 |
|      |         | AMPS    | 9.2                                  | 9.4  | 9.6  | 9.9  | 9.8  | 10.0 | 10.3 | 10.7 | 10.6 | 10.8 | 11.1 | 11.5 | 11.2 | 11.5 | 11.8 | 12.2 | 11.9 | 12.1 | 12.5 | 12.9 | 12.5 | 12.8 | 13.2 | 13.6 |
|      |         | HI PR   | 158                                  | 170  | 179  | 187  | 177  | 191  | 201  | 210  | 201  | 217  | 229  | 239  | 229  | 247  | 261  | 272  | 258  | 278  | 293  | 306  | 285  | 307  | 324  | 338  |
|      |         | LO PR   | 63                                   | 67   | 74   | 78   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 86   | 73   | 78   | 85   | 90   | 77   | 81   | 89   | 95   | 79   | 84   | 92   | 98   |

|    |     |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|-----|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85 | 950 | MBh     | 25.4 | 25.9 | 27.1 | 29.0 | 24.8 | 25.3 | 26.5 | 28.3 | 24.2 | 24.7 | 25.9 | 27.6 | 23.6 | 24.1 | 25.2 | 26.9 | 22.5 | 22.9 | 24.0 | 25.6 | 20.8 | 21.2 | 22.2 | 23.7 |
|    |     | S/T     | 0.93 | 0.90 | 0.81 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.93 | 0.75 |
|    |     | Delta T | 23   | 22   | 21   | 18   | 23   | 23   | 21   | 19   | 23   | 23   | 22   | 19   | 23   | 23   | 22   | 19   | 22   | 22   | 21   | 18   | 20   | 21   | 20   | 17   |
|    |     | KW      | 2.17 | 2.22 | 2.29 | 2.36 | 2.34 | 2.39 | 2.47 | 2.55 | 2.49 | 2.54 | 2.62 | 2.71 | 2.61 | 2.67 | 2.76 | 2.85 | 2.72 | 2.78 | 2.88 | 2.97 | 2.82 | 2.88 | 2.98 | 3.08 |
|    |     | AMPS    | 9.4  | 9.6  | 9.9  | 10.2 | 10.1 | 10.3 | 10.6 | 11.0 | 10.9 | 11.1 | 11.5 | 11.8 | 11.6 | 11.8 | 12.2 | 12.6 | 12.2 | 12.5 | 12.9 | 13.3 | 12.9 | 13.2 | 13.6 | 14.1 |
|    |     | HI PR   | 164  | 176  | 186  | 194  | 184  | 198  | 209  | 218  | 209  | 225  | 238  | 248  | 238  | 256  | 271  | 282  | 268  | 288  | 304  | 317  | 296  | 318  | 336  | 351  |
|    |     | LO PR   | 66   | 70   | 76   | 81   | 69   | 74   | 81   | 86   | 72   | 77   | 84   | 89   | 76   | 81   | 88   | 94   | 79   | 85   | 92   | 98   | 82   | 87   | 95   | 102  |
|    | 850 | MBh     | 25.0 | 25.5 | 26.7 | 28.5 | 24.5 | 24.9 | 26.1 | 27.9 | 23.9 | 24.3 | 25.5 | 27.2 | 23.3 | 23.8 | 24.9 | 26.5 | 22.1 | 22.6 | 23.6 | 25.2 | 20.5 | 20.9 | 21.9 | 23.4 |
|    |     | S/T     | 0.89 | 0.86 | 0.77 | 0.63 | 0.92 | 0.89 | 0.80 | 0.65 | 0.94 | 0.91 | 0.82 | 0.67 | 0.98 | 0.94 | 0.85 | 0.69 | 1.00 | 0.98 | 0.88 | 0.72 | 1.00 | 0.98 | 0.89 | 0.72 |
|    |     | Delta T | 24   | 24   | 22   | 19   | 24   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 24   | 24   | 23   | 19   | 22   | 22   | 21   | 18   |
|    |     | KW      | 2.16 | 2.21 | 2.28 | 2.35 | 2.33 | 2.38 | 2.45 | 2.53 | 2.47 | 2.52 | 2.61 | 2.69 | 2.60 | 2.66 | 2.74 | 2.83 | 2.71 | 2.77 | 2.86 | 2.95 | 2.80 | 2.86 | 2.96 | 3.06 |
|    |     | AMPS    | 9.4  | 9.6  | 9.9  | 10.2 | 10.1 | 10.3 | 10.6 | 10.9 | 10.8 | 11.1 | 11.4 | 11.8 | 11.5 | 11.7 | 12.1 | 12.5 | 12.2 | 12.4 | 12.8 | 13.3 | 12.8 | 13.1 | 13.5 | 14.0 |
|    |     | HI PR   | 163  | 175  | 185  | 193  | 183  | 196  | 207  | 216  | 208  | 223  | 236  | 246  | 236  | 254  | 269  | 280  | 266  | 286  | 302  | 315  | 294  | 316  | 334  | 348  |
|    |     | LO PR   | 65   | 69   | 76   | 81   | 69   | 73   | 80   | 85   | 72   | 76   | 83   | 89   | 75   | 80   | 87   | 93   | 79   | 84   | 92   | 98   | 82   | 87   | 95   | 101  |
|    | 750 | MBh     | 23.8 | 24.3 | 25.4 | 27.1 | 23.2 | 23.7 | 24.8 | 26.5 | 22.7 | 23.1 | 24.2 | 25.8 | 22.1 | 22.6 | 23.6 | 25.2 | 21.0 | 21.4 | 22.4 | 24.0 | 19.5 | 19.9 | 20.8 | 22.2 |
|    |     | S/T     | 0.85 | 0.82 | 0.74 | 0.60 | 0.88 | 0.85 | 0.77 | 0.62 | 0.90 | 0.87 | 0.79 | 0.64 | 0.93 | 0.90 | 0.81 | 0.66 | 0.97 | 0.94 | 0.84 | 0.68 | 0.98 | 0.94 | 0.85 | 0.69 |
|    |     | Delta T | 25   | 24   | 23   | 20   | 25   | 25   | 23   | 20   | 25   | 25   | 23   | 20   | 25   | 25   | 24   | 20   | 25   | 25   | 23   | 20   | 23   | 23   | 22   | 19   |
|    |     | KW      | 2.13 | 2.17 | 2.24 | 2.31 | 2.29 | 2.34 | 2.41 | 2.49 | 2.43 | 2.48 | 2.56 | 2.65 | 2.56 | 2.61 | 2.70 | 2.79 | 2.66 | 2.72 | 2.81 | 2.90 | 2.75 | 2.82 | 2.91 | 3.01 |
|    |     | AMPS    | 9.2  | 9.4  | 9.7  | 10.0 | 9.9  | 10.1 | 10.4 | 10.7 | 10.7 | 10.9 | 11.2 | 11.6 | 11.3 | 11.6 | 11.9 | 12.3 | 12.0 | 12.2 | 12.6 | 13.0 | 12.6 | 12.9 | 13.3 | 13.7 |
|    |     | HI PR   | 159  | 172  | 181  | 189  | 179  | 192  | 203  | 212  | 203  | 219  | 231  | 241  | 232  | 249  | 263  | 275  | 261  | 280  | 296  | 309  | 288  | 310  | 327  | 341  |
|    |     | LO PR   | 64   | 68   | 74   | 79   | 68   | 72   | 79   | 84   | 70   | 75   | 82   | 87   | 74   | 79   | 86   | 91   | 77   | 82   | 90   | 96   | 80   | 85   | 93   | 99   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

## EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB30C02\*

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |      |
|      |         |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |         |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |      |
| IDB* | Airflow |         | MBh                                  | 28.6 | 29.6 | 32.5 | -    | 27.9 | 28.9 | 31.7 | -    | 27.3 | 28.2 | 30.9 | -    | 26.6 | 27.6 | 30.2 | -    | 25.3 | 26.2 | 28.7 | -    | 23.4 | 24.3 | 26.6 | -    |
| 70   | 1060    | S/T     | 0.72                                 | 0.60 | 0.42 | -    | 0.75 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.44 | -    | 0.79 | 0.66 | 0.46 | -    | 0.82 | 0.68 | 0.47 | -    | 0.83 | 0.69 | 0.48 | -    |      |
|      |         | Delta T | 18                                   | 15   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    |      |
|      |         | KW      | 2.55                                 | 2.61 | 2.69 | -    | 2.75 | 2.81 | 2.90 | -    | 2.93 | 2.99 | 3.09 | -    | 3.08 | 3.15 | 3.25 | -    | 3.21 | 3.28 | 3.39 | -    | 3.32 | 3.40 | 3.51 | -    |      |
|      |         | AMPS    | 11.3                                 | 11.5 | 11.9 | -    | 12.1 | 12.4 | 12.8 | -    | 13.1 | 13.4 | 13.8 | -    | 13.9 | 14.2 | 14.6 | -    | 14.7 | 15.0 | 15.5 | -    | 15.5 | 15.9 | 16.4 | -    |      |
|      |         | HI PR   | 161                                  | 174  | 183  | -    | 181  | 195  | 206  | -    | 206  | 222  | 234  | -    | 234  | 252  | 266  | -    | 264  | 284  | 300  | -    | 291  | 314  | 331  | -    |      |
|      |         | LO PR   | 63                                   | 67   | 74   | -    | 67   | 71   | 78   | -    | 70   | 74   | 81   | -    | 73   | 78   | 85   | -    | 77   | 81   | 89   | -    | 79   | 84   | 92   | -    |      |
|      | 960     | MBh     | 28.2                                 | 29.2 | 32.0 | -    | 27.5 | 28.5 | 31.2 | -    | 26.9 | 27.8 | 30.5 | -    | 26.2 | 27.2 | 29.7 | -    | 24.9 | 25.8 | 28.3 | -    | 23.1 | 23.9 | 26.2 | -    |      |
|      |         | S/T     | 0.69                                 | 0.58 | 0.40 | -    | 0.71 | 0.60 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.76 | 0.63 | 0.44 | -    | 0.79 | 0.66 | 0.45 | -    | 0.79 | 0.66 | 0.46 | -    |      |
|      |         | Delta T | 19                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 17   | 15   | 11   | -    |      |
|      |         | KW      | 2.54                                 | 2.59 | 2.68 | -    | 2.74 | 2.80 | 2.89 | -    | 2.91 | 2.97 | 3.07 | -    | 3.06 | 3.13 | 3.23 | -    | 3.19 | 3.26 | 3.37 | -    | 3.31 | 3.38 | 3.49 | -    |      |
|      |         | AMPS    | 11.2                                 | 11.5 | 11.8 | -    | 12.1 | 12.3 | 12.7 | -    | 13.0 | 13.3 | 13.7 | -    | 13.8 | 14.1 | 14.5 | -    | 14.6 | 14.9 | 15.4 | -    | 15.4 | 15.8 | 16.3 | -    |      |
|      |         | HI PR   | 160                                  | 172  | 182  | -    | 180  | 193  | 204  | -    | 204  | 220  | 232  | -    | 233  | 251  | 265  | -    | 262  | 282  | 298  | -    | 289  | 311  | 329  | -    |      |
|      | 860     | LO PR   | 63                                   | 67   | 73   | -    | 66   | 71   | 77   | -    | 69   | 73   | 80   | -    | 73   | 77   | 84   | -    | 76   | 81   | 88   | -    | 79   | 84   | 91   | -    |      |
|      |         | MBh     | 26.8                                 | 27.7 | 30.4 | -    | 26.1 | 27.1 | 29.7 | -    | 25.5 | 26.4 | 29.0 | -    | 24.9 | 25.8 | 28.3 | -    | 23.6 | 24.5 | 26.8 | -    | 21.9 | 22.7 | 24.9 | -    |      |
|      |         | S/T     | 0.66                                 | 0.55 | 0.38 | -    | 0.68 | 0.57 | 0.40 | -    | 0.70 | 0.59 | 0.41 | -    | 0.72 | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.44 | -    | 0.76 | 0.63 | 0.44 | -    |      |
|      |         | Delta T | 19                                   | 16   | 12   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 16   | 12   | -    | 18   | 15   | 12   | -    |      |
|      |         | KW      | 2.50                                 | 2.55 | 2.63 | -    | 2.69 | 2.75 | 2.84 | -    | 2.86 | 2.92 | 3.02 | -    | 3.01 | 3.08 | 3.18 | -    | 3.14 | 3.21 | 3.32 | -    | 3.25 | 3.32 | 3.43 | -    |      |
|      |         | AMPS    | 11.1                                 | 11.3 | 11.6 | -    | 11.9 | 12.1 | 12.5 | -    | 12.8 | 13.1 | 13.5 | -    | 13.6 | 13.9 | 14.3 | -    | 14.4 | 14.7 | 15.1 | -    | 15.2 | 15.5 | 16.0 | -    |      |
| 75   | 1060    | HI PR   | 157                                  | 169  | 178  | -    | 176  | 190  | 200  | -    | 200  | 216  | 228  | -    | 228  | 246  | 259  | -    | 257  | 276  | 292  | -    | 284  | 305  | 322  | -    |      |
|      |         | LO PR   | 62                                   | 66   | 72   | -    | 65   | 69   | 76   | -    | 68   | 72   | 79   | -    | 71   | 76   | 83   | -    | 75   | 79   | 87   | -    | 77   | 82   | 90   | -    |      |
|      |         | 960     | MBh                                  | 29.1 | 29.9 | 32.4 | 34.8 | 28.4 | 29.2 | 31.6 | 34.0 | 27.7 | 28.5 | 30.9 | 33.2 | 27.0 | 27.8 | 30.1 | 32.3 | 25.7 | 26.4 | 28.6 | 30.7 | 23.8 | 24.5 | 26.5 | 28.5 |
|      |         |         | S/T                                  | 0.82 | 0.73 | 0.55 | 0.36 | 0.85 | 0.76 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.93 | 0.83 | 0.63 | 0.41 | 0.94 | 0.84 | 0.64 | 0.41 |
|      |         |         | Delta T                              | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 19   | 18   | 15   | 10   |
|      |         |         | KW                                   | 2.57 | 2.63 | 2.71 | 2.80 | 2.77 | 2.83 | 2.93 | 3.02 | 2.95 | 3.02 | 3.12 | 3.22 | 3.11 | 3.18 | 3.28 | 3.39 | 3.24 | 3.31 | 3.42 | 3.54 | 3.35 | 3.43 | 3.54 | 3.67 |
|      | AMPS    |         | 11.4                                 | 11.6 | 12.0 | 12.4 | 12.2 | 12.5 | 12.9 | 13.3 | 13.2 | 13.5 | 13.9 | 14.4 | 14.0 | 14.3 | 14.8 | 15.3 | 14.8 | 15.2 | 15.6 | 16.2 | 15.6 | 16.0 | 16.5 | 17.1 |      |
|      | 860     |         | HI PR                                | 163  | 175  | 185  | 193  | 183  | 197  | 208  | 217  | 208  | 224  | 236  | 246  | 237  | 255  | 269  | 281  | 266  | 287  | 303  | 316  | 294  | 317  | 335  | 349  |
|      |         | LO PR   | 64                                   | 68   | 74   | 79   | 68   | 72   | 79   | 84   | 70   | 75   | 82   | 87   | 74   | 79   | 86   | 91   | 77   | 82   | 90   | 96   | 80   | 85   | 93   | 99   |      |
|      |         | 960     | MBh                                  | 28.6 | 29.5 | 31.9 | 34.3 | 28.0 | 28.8 | 31.2 | 33.5 | 27.3 | 28.1 | 30.4 | 32.7 | 26.6 | 27.4 | 29.7 | 31.9 | 25.3 | 26.1 | 28.2 | 30.3 | 23.4 | 24.1 | 26.1 | 28.0 |
|      |         |         | S/T                                  | 0.78 | 0.70 | 0.53 | 0.34 | 0.81 | 0.73 | 0.55 | 0.35 | 0.83 | 0.75 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.89 | 0.80 | 0.60 | 0.39 | 0.90 | 0.81 | 0.61 | 0.39 |
|      |         |         | Delta T                              | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 16   | 11   | 20   | 19   | 15   | 11   |
|      |         |         | KW                                   | 2.56 | 2.61 | 2.70 | 2.79 | 2.76 | 2.82 | 2.91 | 3.01 | 2.93 | 3.00 | 3.10 | 3.20 | 3.09 | 3.16 | 3.26 | 3.37 | 3.22 | 3.29 | 3.40 | 3.52 | 3.33 | 3.41 | 3.52 | 3.64 |
|      | AMPS    |         | 11.3                                 | 11.6 | 11.9 | 12.3 | 12.2 | 12.4 | 12.8 | 13.2 | 13.1 | 13.4 | 13.8 | 14.3 | 13.9 | 14.2 | 14.7 | 15.2 | 14.7 | 15.1 | 15.5 | 16.1 | 15.6 | 15.9 | 16.4 | 17.0 |      |
|      | 860     |         | HI PR                                | 162  | 174  | 184  | 192  | 182  | 195  | 206  | 215  | 207  | 222  | 235  | 245  | 235  | 253  | 267  | 279  | 265  | 285  | 301  | 314  | 292  | 315  | 332  | 347  |
|      |         | LO PR   | 64                                   | 68   | 74   | 79   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 86   | 73   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 79   | 85   | 92   | 98   |      |
|      |         | 860     | MBh                                  | 27.2 | 28.0 | 30.3 | 32.5 | 26.6 | 27.4 | 29.6 | 31.8 | 25.9 | 26.7 | 28.9 | 31.0 | 25.3 | 26.1 | 28.2 | 30.3 | 24.0 | 24.8 | 26.8 | 28.8 | 22.3 | 22.9 | 24.8 | 26.6 |
|      |         |         | S/T                                  | 0.75 | 0.67 | 0.51 | 0.33 | 0.78 | 0.70 | 0.53 | 0.34 | 0.80 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 0.56 | 0.36 | 0.86 | 0.76 | 0.58 | 0.37 | 0.86 | 0.77 | 0.58 | 0.38 |
|      |         |         | Delta T                              | 22   | 20   | 16   | 11   | 22   | 20   | 17   | 12   | 22   | 20   | 17   | 12   | 22   | 21   | 17   | 12   | 22   | 20   | 17   | 11   | 21   | 19   | 15   | 11   |
|      |         |         | KW                                   | 2.52 | 2.57 | 2.65 | 2.74 | 2.71 | 2.77 | 2.86 | 2.96 | 2.89 | 2.95 | 3.05 | 3.15 | 3.04 | 3.10 | 3.21 | 3.32 | 3.17 | 3.24 | 3.34 | 3.46 | 3.28 | 3.35 | 3.46 | 3.58 |
|      | AMPS    |         | 11.2                                 | 11.4 | 11.7 | 12.1 | 12.0 | 12.2 | 12.6 | 13.0 | 12.9 | 13.2 | 13.6 | 14.0 | 13.7 | 14.0 | 14.4 | 14.9 | 14.5 | 14.8 | 15.3 | 15.8 | 15.3 | 15.6 | 16.1 | 16.7 |      |
|      | LO PR   |         | 159                                  | 171  | 180  | 188  | 178  | 192  | 202  | 211  | 202  | 218  | 230  | 240  | 231  | 248  | 262  | 273  | 259  | 279  | 295  | 307  | 287  | 308  | 326  | 340  |      |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB30C02\*

COOLING PERFORMANCE DATA

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
| IDB* | Airflow |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|      |         |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 80   | 1060    | MBh     | 29.6                                 | 30.2 | 32.3 | 34.5 | 28.9 | 29.5 | 31.5 | 33.7 | 28.2 | 28.8 | 30.8 | 32.9 | 27.5 | 28.1 | 30.0 | 32.1 | 26.1 | 26.7 | 28.5 | 30.5 | 24.2 | 24.7 | 26.4 | 28.3 |
|      |         | S/T     | 0.90                                 | 0.84 | 0.69 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89 | 0.73 | 0.54 | 0.99 | 0.92 | 0.75 | 0.56 | 1.00 | 0.96 | 0.78 | 0.58 | 1.00 | 0.97 | 0.79 | 0.59 |
|      |         | Delta T | 23                                   | 22   | 19   | 15   | 23   | 22   | 19   | 16   | 23   | 22   | 19   | 16   | 24   | 23   | 20   | 16   | 23   | 22   | 19   | 15   | 21   | 21   | 18   | 14   |
|      |         | KW      | 2.60                                 | 2.65 | 2.74 | 2.82 | 2.80 | 2.86 | 2.95 | 3.05 | 2.98 | 3.04 | 3.14 | 3.25 | 3.13 | 3.20 | 3.31 | 3.42 | 3.27 | 3.34 | 3.45 | 3.57 | 3.38 | 3.46 | 3.58 | 3.70 |
|      |         | AMPS    | 11.5                                 | 11.7 | 12.1 | 12.5 | 12.3 | 12.6 | 13.0 | 13.4 | 13.3 | 13.6 | 14.0 | 14.5 | 14.1 | 14.4 | 14.9 | 15.4 | 15.0 | 15.3 | 15.8 | 16.3 | 15.8 | 16.1 | 16.7 | 17.2 |
|      |         | HI PR   | 165                                  | 177  | 187  | 195  | 185  | 199  | 210  | 219  | 210  | 226  | 239  | 249  | 239  | 257  | 272  | 284  | 269  | 290  | 306  | 319  | 297  | 320  | 338  | 352  |
|      |         | LO PR   | 65                                   | 69   | 75   | 80   | 68   | 73   | 79   | 84   | 71   | 76   | 82   | 88   | 75   | 79   | 87   | 92   | 78   | 83   | 91   | 97   | 81   | 86   | 94   | 100  |
|      | 960     | MBh     | 29.1                                 | 29.8 | 31.8 | 34.0 | 28.5 | 29.1 | 31.1 | 33.2 | 27.8 | 28.4 | 30.3 | 32.4 | 27.1 | 27.7 | 29.6 | 31.6 | 25.8 | 26.3 | 28.1 | 30.1 | 23.9 | 24.4 | 26.0 | 27.8 |
|      |         | S/T     | 0.86                                 | 0.81 | 0.66 | 0.49 | 0.89 | 0.84 | 0.68 | 0.51 | 0.91 | 0.86 | 0.70 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 0.99 | 0.93 | 0.75 | 0.56 |
|      |         | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 23   | 22   | 19   | 15   |
|      |         | KW      | 2.58                                 | 2.64 | 2.72 | 2.81 | 2.78 | 2.84 | 2.93 | 3.03 | 2.96 | 3.02 | 3.12 | 3.23 | 3.11 | 3.18 | 3.29 | 3.40 | 3.25 | 3.32 | 3.43 | 3.55 | 3.36 | 3.44 | 3.55 | 3.68 |
|      |         | AMPS    | 11.4                                 | 11.7 | 12.0 | 12.4 | 12.3 | 12.5 | 12.9 | 13.3 | 13.2 | 13.5 | 13.9 | 14.4 | 14.0 | 14.4 | 14.8 | 15.3 | 14.9 | 15.2 | 15.7 | 16.2 | 15.7 | 16.0 | 16.6 | 17.1 |
|      |         | HI PR   | 163                                  | 176  | 186  | 194  | 183  | 197  | 208  | 217  | 209  | 224  | 237  | 247  | 238  | 256  | 270  | 282  | 267  | 288  | 304  | 317  | 295  | 318  | 336  | 350  |
|      |         | LO PR   | 64                                   | 68   | 75   | 79   | 68   | 72   | 79   | 84   | 70   | 75   | 82   | 87   | 74   | 79   | 86   | 92   | 78   | 83   | 90   | 96   | 80   | 85   | 93   | 99   |
|      | 860     | MBh     | 27.7                                 | 28.3 | 30.2 | 32.3 | 27.0 | 27.6 | 29.5 | 31.6 | 26.4 | 27.0 | 28.8 | 30.8 | 25.8 | 26.3 | 28.1 | 30.1 | 24.5 | 25.0 | 26.7 | 28.6 | 22.7 | 23.2 | 24.7 | 26.5 |
|      |         | S/T     | 0.82                                 | 0.77 | 0.63 | 0.47 | 0.85 | 0.80 | 0.65 | 0.49 | 0.88 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.95 | 0.89 | 0.72 | 0.54 |
|      |         | Delta T | 24                                   | 23   | 20   | 16   | 25   | 24   | 21   | 16   | 25   | 24   | 21   | 16   | 25   | 24   | 21   | 17   | 25   | 24   | 20   | 16   | 23   | 22   | 19   | 15   |
|      |         | KW      | 2.54                                 | 2.59 | 2.68 | 2.76 | 2.74 | 2.80 | 2.89 | 2.98 | 2.91 | 2.97 | 3.07 | 3.17 | 3.06 | 3.13 | 3.23 | 3.34 | 3.19 | 3.26 | 3.37 | 3.49 | 3.31 | 3.38 | 3.49 | 3.61 |
|      |         | AMPS    | 11.2                                 | 11.5 | 11.8 | 12.2 | 12.1 | 12.3 | 12.7 | 13.1 | 13.0 | 13.3 | 13.7 | 14.2 | 13.8 | 14.1 | 14.5 | 15.1 | 14.6 | 14.9 | 15.4 | 16.0 | 15.4 | 15.8 | 16.3 | 16.8 |
|      |         | HI PR   | 160                                  | 172  | 182  | 190  | 180  | 193  | 204  | 213  | 204  | 220  | 232  | 242  | 233  | 251  | 265  | 276  | 262  | 282  | 298  | 310  | 289  | 311  | 329  | 343  |
|      |         | LO PR   | 63                                   | 67   | 73   | 78   | 66   | 71   | 77   | 82   | 69   | 73   | 80   | 85   | 73   | 77   | 84   | 90   | 76   | 81   | 88   | 94   | 79   | 84   | 91   | 97   |

|    |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85 | 1060 | MBh     | 30.1 | 30.7 | 32.1 | 34.3 | 29.4 | 30.0 | 31.4 | 33.5 | 28.7 | 29.3 | 30.6 | 32.7 | 28.0 | 28.5 | 29.9 | 31.9 | 26.6 | 27.1 | 28.4 | 30.3 | 24.6 | 25.1 | 26.3 | 28.1 |
|    |      | S/T     | 0.94 | 0.91 | 0.82 | 0.67 | 0.98 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.93 | 0.76 | 1.00 | 1.00 | 0.94 | 0.76 |
|    |      | Delta T | 25   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 24   | 25   | 23   | 20   | 23   | 24   | 23   | 20   | 21   | 22   | 21   | 19   |
|    |      | KW      | 2.62 | 2.67 | 2.76 | 2.85 | 2.82 | 2.88 | 2.98 | 3.07 | 3.00 | 3.07 | 3.17 | 3.27 | 3.16 | 3.23 | 3.34 | 3.45 | 3.29 | 3.37 | 3.48 | 3.60 | 3.41 | 3.49 | 3.61 | 3.73 |
|    |      | AMPS    | 11.6 | 11.8 | 12.2 | 12.6 | 12.4 | 12.7 | 13.1 | 13.5 | 13.4 | 13.7 | 14.1 | 14.6 | 14.2 | 14.6 | 15.0 | 15.5 | 15.1 | 15.4 | 15.9 | 16.5 | 15.9 | 16.3 | 16.8 | 17.4 |
|    |      | HI PR   | 166  | 179  | 189  | 197  | 187  | 201  | 212  | 221  | 212  | 228  | 241  | 251  | 242  | 260  | 275  | 286  | 272  | 293  | 309  | 322  | 300  | 323  | 341  | 356  |
|    |      | LO PR   | 65   | 69   | 76   | 81   | 69   | 73   | 80   | 85   | 72   | 76   | 83   | 89   | 75   | 80   | 87   | 93   | 79   | 84   | 92   | 98   | 82   | 87   | 95   | 101  |
|    | 960  | MBh     | 29.7 | 30.2 | 31.7 | 33.8 | 29.0 | 29.5 | 30.9 | 33.0 | 28.3 | 28.8 | 30.2 | 32.2 | 27.6 | 28.1 | 29.5 | 31.4 | 26.2 | 26.7 | 28.0 | 29.8 | 24.3 | 24.7 | 25.9 | 27.7 |
|    |      | S/T     | 0.90 | 0.87 | 0.79 | 0.64 | 0.93 | 0.90 | 0.81 | 0.66 | 0.96 | 0.92 | 0.83 | 0.68 | 0.99 | 0.95 | 0.86 | 0.70 | 1.00 | 0.99 | 0.89 | 0.73 | 1.00 | 1.00 | 0.90 | 0.73 |
|    |      | Delta T | 26   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 26   | 24   | 21   | 25   | 25   | 24   | 21   | 23   | 24   | 22   | 19   |
|    |      | KW      | 2.60 | 2.66 | 2.74 | 2.83 | 2.80 | 2.87 | 2.96 | 3.06 | 2.98 | 3.05 | 3.15 | 3.25 | 3.14 | 3.21 | 3.32 | 3.43 | 3.28 | 3.35 | 3.46 | 3.58 | 3.39 | 3.47 | 3.58 | 3.71 |
|    |      | AMPS    | 11.5 | 11.8 | 12.1 | 12.5 | 12.4 | 12.6 | 13.0 | 13.4 | 13.3 | 13.6 | 14.0 | 14.5 | 14.2 | 14.5 | 14.9 | 15.4 | 15.0 | 15.3 | 15.8 | 16.4 | 15.8 | 16.2 | 16.7 | 17.3 |
|    |      | HI PR   | 165  | 178  | 188  | 196  | 185  | 199  | 211  | 220  | 211  | 227  | 239  | 250  | 240  | 258  | 273  | 284  | 270  | 291  | 307  | 320  | 298  | 321  | 339  | 354  |
|    |      | LO PR   | 65   | 69   | 75   | 80   | 69   | 73   | 80   | 85   | 71   | 76   | 83   | 88   | 75   | 80   | 87   | 93   | 78   | 83   | 91   | 97   | 81   | 86   | 94   | 100  |
|    | 860  | MBh     | 28.2 | 28.7 | 30.1 | 32.1 | 27.5 | 28.1 | 29.4 | 31.3 | 26.9 | 27.4 | 28.7 | 30.6 | 26.2 | 26.7 | 28.0 | 29.8 | 24.9 | 25.4 | 26.6 | 28.4 | 23.1 | 23.5 | 24.6 | 26.3 |
|    |      | S/T     | 0.86 | 0.83 | 0.75 | 0.61 | 0.89 | 0.86 | 0.78 | 0.63 | 0.92 | 0.89 | 0.80 | 0.65 | 0.95 | 0.91 | 0.82 | 0.67 | 0.98 | 0.95 | 0.86 | 0.69 | 0.99 | 0.96 | 0.86 | 0.70 |
|    |      | Delta T | 26   | 26   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 26   | 24   | 21   | 27   | 26   | 25   | 21   | 26   | 26   | 24   | 21   | 24   | 24   | 23   | 20   |
|    |      | KW      | 2.56 | 2.61 | 2.70 | 2.79 | 2.76 | 2.82 | 2.91 | 3.01 | 2.93 | 3.00 | 3.10 | 3.20 | 3.09 | 3.16 | 3.26 | 3.37 | 3.22 | 3.29 | 3.40 | 3.52 | 3.33 | 3.41 | 3.52 | 3.64 |
|    |      | AMPS    | 11.3 | 11.6 | 11.9 | 12.3 | 12.2 | 12.4 | 12.8 | 13.2 | 13.1 | 13.4 | 13.8 | 14.3 | 13.9 | 14.2 | 14.7 | 15.2 | 14.7 | 15.1 | 15.5 | 16.1 | 15.6 | 15.9 | 16.4 | 17.0 |
|    |      | HI PR   | 162  | 174  | 184  | 192  | 182  | 195  | 206  | 215  | 206  | 222  | 235  | 245  | 235  | 253  | 267  | 279  | 265  | 285  | 301  | 314  | 292  | 315  | 332  | 346  |
|    |      | LO PR   | 64   | 68   | 74   | 79   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 86   | 73   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 79   | 85   | 92   | 98   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

## EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB36C02\*

COOLING PERFORMANCE DATA

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|      |         |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| IDB* | Airflow |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 70   | 1270    | MBh     | 34.0                                 | 35.3 | 38.6 | -    | 33.2 | 34.4 | 37.7 | -    | 32.4 | 33.6 | 36.8 | -    | 31.6 | 32.8 | 35.9 | -    | 30.1 | 31.2 | 34.1 | -    | 27.8 | 28.9 | 31.6 | -    |
|      |         | S/T     | 0.71                                 | 0.60 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.76 | 0.63 | 0.44 | -    | 0.78 | 0.65 | 0.45 | -    | 0.81 | 0.68 | 0.47 | -    | 0.82 | 0.68 | 0.47 | -    |
|      |         | Delta T | 18                                   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 16   | 12   | -    | 18   | 15   | 12   | -    | 17   | 14   | 11   | -    |
|      |         | KW      | 3.02                                 | 3.09 | 3.19 | -    | 3.26 | 3.33 | 3.44 | -    | 3.46 | 3.54 | 3.66 | -    | 3.65 | 3.73 | 3.85 | -    | 3.80 | 3.89 | 4.02 | -    | 3.94 | 4.03 | 4.16 | -    |
|      |         | AMPS    | 13.6                                 | 13.9 | 14.3 | -    | 14.6 | 14.9 | 15.4 | -    | 15.7 | 16.1 | 16.6 | -    | 16.7 | 17.1 | 17.6 | -    | 17.7 | 18.1 | 18.7 | -    | 18.7 | 19.1 | 19.7 | -    |
|      |         | HI PR   | 165                                  | 178  | 188  | -    | 186  | 200  | 211  | -    | 211  | 227  | 240  | -    | 240  | 259  | 273  | -    | 271  | 291  | 307  | -    | 299  | 322  | 340  | -    |
|      | LO PR   | 63      | 67                                   | 73   | -    | 67   | 71   | 77   | -    | 69   | 74   | 80   | -    | 73   | 77   | 85   | -    | 76   | 81   | 89   | -    | 79   | 84   | 92   | -    |      |
|      | 1170    | MBh     | 33.7                                 | 34.9 | 38.2 | -    | 32.9 | 34.1 | 37.4 | -    | 32.1 | 33.3 | 36.5 | -    | 31.3 | 32.5 | 35.6 | -    | 29.8 | 30.8 | 33.8 | -    | 27.6 | 28.6 | 31.3 | -    |
|      |         | S/T     | 0.70                                 | 0.58 | 0.40 | -    | 0.72 | 0.61 | 0.42 | -    | 0.74 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.44 | -    | 0.80 | 0.66 | 0.46 | -    | 0.80 | 0.67 | 0.46 | -    |
|      |         | Delta T | 19                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 17   | 15   | 11   | -    |
|      |         | KW      | 3.02                                 | 3.08 | 3.18 | -    | 3.25 | 3.32 | 3.43 | -    | 3.46 | 3.53 | 3.65 | -    | 3.64 | 3.72 | 3.84 | -    | 3.79 | 3.88 | 4.01 | -    | 3.93 | 4.02 | 4.15 | -    |
|      |         | AMPS    | 13.6                                 | 13.8 | 14.3 | -    | 14.5 | 14.9 | 15.3 | -    | 15.7 | 16.0 | 16.5 | -    | 16.7 | 17.1 | 17.6 | -    | 17.7 | 18.1 | 18.6 | -    | 18.7 | 19.1 | 19.7 | -    |
|      |         | HI PR   | 165                                  | 178  | 187  | -    | 185  | 199  | 210  | -    | 210  | 227  | 239  | -    | 240  | 258  | 272  | -    | 270  | 290  | 306  | -    | 298  | 321  | 339  | -    |
|      | LO PR   | 63      | 67                                   | 73   | -    | 66   | 71   | 77   | -    | 69   | 73   | 80   | -    | 73   | 77   | 84   | -    | 76   | 81   | 88   | -    | 79   | 84   | 91   | -    |      |
|      | 1070    | MBh     | 33.2                                 | 34.4 | 37.7 | -    | 32.4 | 33.6 | 36.8 | -    | 31.6 | 32.8 | 35.9 | -    | 30.9 | 32.0 | 35.0 | -    | 29.3 | 30.4 | 33.3 | -    | 27.2 | 28.1 | 30.8 | -    |
|      |         | S/T     | 0.67                                 | 0.56 | 0.39 | -    | 0.70 | 0.58 | 0.40 | -    | 0.72 | 0.60 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.44 | -    | 0.77 | 0.65 | 0.45 | -    |
|      |         | Delta T | 19                                   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 20   | 17   | 13   | -    | 19   | 17   | 13   | -    | 18   | 16   | 12   | -    |
|      |         | KW      | 2.97                                 | 3.04 | 3.13 | -    | 3.20 | 3.27 | 3.38 | -    | 3.41 | 3.48 | 3.60 | -    | 3.59 | 3.67 | 3.79 | -    | 3.74 | 3.82 | 3.95 | -    | 3.87 | 3.96 | 4.09 | -    |
|      |         | AMPS    | 13.4                                 | 13.7 | 14.1 | -    | 14.3 | 14.7 | 15.1 | -    | 15.5 | 15.8 | 16.3 | -    | 16.4 | 16.8 | 17.3 | -    | 17.4 | 17.8 | 18.4 | -    | 18.4 | 18.8 | 19.4 | -    |
|      |         | HI PR   | 162                                  | 174  | 184  | -    | 182  | 196  | 207  | -    | 207  | 223  | 235  | -    | 236  | 254  | 268  | -    | 265  | 285  | 301  | -    | 293  | 315  | 333  | -    |
|      | LO PR   | 62      | 66                                   | 72   | -    | 65   | 70   | 76   | -    | 68   | 72   | 79   | -    | 71   | 76   | 83   | -    | 75   | 80   | 87   | -    | 77   | 82   | 90   | -    |      |
| 75   | 1270    | MBh     | 34.6                                 | 35.6 | 38.6 | 41.4 | 33.8 | 34.8 | 37.7 | 40.4 | 33.0 | 34.0 | 36.8 | 39.5 | 32.2 | 33.1 | 35.9 | 38.5 | 30.6 | 31.5 | 34.1 | 36.6 | 28.3 | 29.2 | 31.6 | 33.9 |
|      |         | S/T     | 0.81                                 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.86 | 0.77 | 0.58 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.92 | 0.83 | 0.62 | 0.40 | 0.93 | 0.83 | 0.63 | 0.41 |
|      |         | Delta T | 20                                   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 20   | 19   | 15   | 11   | 19   | 18   | 14   | 10   |
|      |         | KW      | 3.05                                 | 3.11 | 3.21 | 3.32 | 3.28 | 3.36 | 3.46 | 3.58 | 3.49 | 3.57 | 3.69 | 3.81 | 3.68 | 3.76 | 3.89 | 4.02 | 3.84 | 3.92 | 4.05 | 4.19 | 3.97 | 4.06 | 4.20 | 4.34 |
|      |         | AMPS    | 13.7                                 | 14.0 | 14.4 | 14.9 | 14.7 | 15.0 | 15.5 | 16.0 | 15.9 | 16.2 | 16.7 | 17.3 | 16.9 | 17.3 | 17.8 | 18.4 | 17.9 | 18.3 | 18.9 | 19.5 | 18.9 | 19.3 | 19.9 | 20.6 |
|      |         | HI PR   | 167                                  | 180  | 190  | 198  | 188  | 202  | 213  | 222  | 213  | 230  | 242  | 253  | 243  | 261  | 276  | 288  | 273  | 294  | 311  | 324  | 302  | 325  | 343  | 358  |
|      | LO PR   | 64      | 68                                   | 74   | 79   | 67   | 72   | 78   | 83   | 70   | 74   | 81   | 87   | 74   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 80   | 85   | 93   | 99   |      |
|      | 1170    | MBh     | 34.2                                 | 35.3 | 38.2 | 41.0 | 33.5 | 34.4 | 37.3 | 40.0 | 32.7 | 33.6 | 36.4 | 39.1 | 31.9 | 32.8 | 35.5 | 38.1 | 30.3 | 31.2 | 33.7 | 36.2 | 28.0 | 28.9 | 31.2 | 33.5 |
|      |         | S/T     | 0.79                                 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 0.56 | 0.36 | 0.84 | 0.76 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.91 | 0.82 | 0.62 | 0.40 |
|      |         | Delta T | 21                                   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 20   | 19   | 15   | 10   |
|      |         | KW      | 3.04                                 | 3.10 | 3.20 | 3.31 | 3.28 | 3.35 | 3.46 | 3.57 | 3.49 | 3.56 | 3.68 | 3.80 | 3.67 | 3.75 | 3.88 | 4.01 | 3.83 | 3.91 | 4.04 | 4.18 | 3.96 | 4.05 | 4.19 | 4.33 |
|      |         | AMPS    | 13.7                                 | 14.0 | 14.4 | 14.9 | 14.7 | 15.0 | 15.4 | 16.0 | 15.8 | 16.2 | 16.7 | 17.3 | 16.8 | 17.2 | 17.7 | 18.4 | 17.8 | 18.2 | 18.8 | 19.5 | 18.8 | 19.3 | 19.9 | 20.6 |
|      |         | HI PR   | 167                                  | 179  | 189  | 197  | 187  | 201  | 212  | 222  | 213  | 229  | 242  | 252  | 242  | 261  | 275  | 287  | 272  | 293  | 310  | 323  | 301  | 324  | 342  | 357  |
|      | LO PR   | 64      | 68                                   | 74   | 79   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 86   | 73   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 79   | 85   | 92   | 98   |      |
|      | 1070    | MBh     | 33.7                                 | 34.7 | 37.6 | 40.4 | 33.0 | 33.9 | 36.7 | 39.4 | 32.2 | 33.1 | 35.8 | 38.5 | 31.4 | 32.3 | 35.0 | 37.5 | 29.8 | 30.7 | 33.2 | 35.7 | 27.6 | 28.4 | 30.8 | 33.0 |
|      |         | S/T     | 0.77                                 | 0.69 | 0.52 | 0.33 | 0.79 | 0.71 | 0.54 | 0.35 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.79 | 0.60 | 0.38 |
|      |         | Delta T | 22                                   | 20   | 17   | 12   | 22   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 23   | 21   | 17   | 12   | 22   | 21   | 17   | 12   | 21   | 19   | 16   | 11   |
|      |         | KW      | 3.00                                 | 3.06 | 3.16 | 3.26 | 3.23 | 3.30 | 3.41 | 3.52 | 3.44 | 3.51 | 3.63 | 3.75 | 3.62 | 3.70 | 3.82 | 3.95 | 3.77 | 3.86 | 3.98 | 4.12 | 3.90 | 3.99 | 4.13 | 4.27 |
|      |         | AMPS    | 13.5                                 | 13.8 | 14.2 | 14.7 | 14.5 | 14.8 | 15.2 | 15.7 | 15.6 | 15.9 | 16.4 | 17.0 | 16.6 | 17.0 | 17.5 | 18.1 | 17.6 | 18.0 | 18.5 | 19.2 | 18.5 | 19.0 | 19.6 | 20.3 |
|      |         | HI PR   | 164                                  | 176  | 186  | 194  | 184  | 198  | 209  | 218  | 209  | 225  | 238  | 248  | 238  | 256  | 271  | 282  | 268  | 288  | 304  | 317  | 296  | 318  | 336  | 351  |
|      | LO PR   | 62      | 66                                   | 73   | 77   | 66   | 70   | 77   | 82   | 69   | 73   | 80   | 85   | 72   | 77   | 84   | 89   | 76   | 80   | 88   | 93   | 78   | 83   | 91   | 97   |      |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB36C02\*

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|      |         |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| IDB* | Airflow |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 80   | 1270    | MBh     | 35.2                                 | 36.0 | 38.4 | 41.1 | 34.4 | 35.1 | 37.5 | 40.1 | 33.6 | 34.3 | 36.6 | 39.2 | 32.8 | 33.5 | 35.8 | 38.2 | 31.1 | 31.8 | 34.0 | 36.3 | 28.8 | 29.4 | 31.5 | 33.6 |
|      |         | S/T     | 0.89                                 | 0.83 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.53 | 0.94 | 0.89 | 0.72 | 0.54 | 0.98 | 0.91 | 0.74 | 0.56 | 1.00 | 0.95 | 0.77 | 0.58 | 1.00 | 0.96 | 0.78 | 0.58 |
|      |         | Delta T | 23                                   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 21   | 20   | 18   | 14   |
|      |         | KW      | 3.07                                 | 3.14 | 3.24 | 3.34 | 3.31 | 3.38 | 3.49 | 3.61 | 3.52 | 3.60 | 3.72 | 3.84 | 3.71 | 3.79 | 3.92 | 4.05 | 3.87 | 3.96 | 4.09 | 4.23 | 4.01 | 4.10 | 4.23 | 4.38 |
|      |         | AMPS    | 13.8                                 | 14.1 | 14.5 | 15.0 | 14.8 | 15.2 | 15.6 | 16.2 | 16.0 | 16.4 | 16.9 | 17.5 | 17.0 | 17.4 | 17.9 | 18.6 | 18.0 | 18.4 | 19.0 | 19.7 | 19.0 | 19.5 | 20.1 | 20.8 |
|      |         | HI PR   | 169                                  | 182  | 192  | 200  | 189  | 204  | 215  | 225  | 215  | 232  | 245  | 255  | 245  | 264  | 279  | 291  | 276  | 297  | 314  | 327  | 305  | 328  | 347  | 361  |
|      |         | LO PR   | 64                                   | 69   | 75   | 80   | 68   | 72   | 79   | 84   | 71   | 75   | 82   | 87   | 74   | 79   | 86   | 92   | 78   | 83   | 90   | 96   | 81   | 86   | 94   | 100  |
|      | 1170    | MBh     | 34.9                                 | 35.6 | 38.1 | 40.7 | 34.0 | 34.8 | 37.2 | 39.7 | 33.2 | 34.0 | 36.3 | 38.8 | 32.4 | 33.1 | 35.4 | 37.8 | 30.8 | 31.5 | 33.6 | 36.0 | 28.5 | 29.2 | 31.2 | 33.3 |
|      |         | S/T     | 0.87                                 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.99 | 0.93 | 0.76 | 0.57 | 1.00 | 0.94 | 0.76 | 0.57 |
|      |         | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 22   | 22   | 19   | 15   |
|      |         | KW      | 3.06                                 | 3.13 | 3.23 | 3.34 | 3.30 | 3.38 | 3.49 | 3.60 | 3.51 | 3.59 | 3.71 | 3.83 | 3.70 | 3.78 | 3.91 | 4.04 | 3.86 | 3.95 | 4.08 | 4.22 | 4.00 | 4.09 | 4.22 | 4.37 |
|      |         | AMPS    | 13.8                                 | 14.1 | 14.5 | 15.0 | 14.8 | 15.1 | 15.6 | 16.1 | 16.0 | 16.3 | 16.8 | 17.4 | 17.0 | 17.4 | 17.9 | 18.5 | 18.0 | 18.4 | 19.0 | 19.7 | 19.0 | 19.4 | 20.0 | 20.8 |
|      |         | HI PR   | 168                                  | 181  | 191  | 199  | 189  | 203  | 215  | 224  | 215  | 231  | 244  | 255  | 245  | 263  | 278  | 290  | 275  | 296  | 313  | 326  | 304  | 327  | 346  | 360  |
|      |         | LO PR   | 64                                   | 68   | 75   | 79   | 68   | 72   | 79   | 84   | 70   | 75   | 82   | 87   | 74   | 79   | 86   | 92   | 78   | 83   | 90   | 96   | 80   | 85   | 93   | 99   |
|      | 1070    | MBh     | 34.3                                 | 35.1 | 37.5 | 40.1 | 33.5 | 34.3 | 36.6 | 39.1 | 32.7 | 33.5 | 35.7 | 38.2 | 31.9 | 32.6 | 34.9 | 37.3 | 30.3 | 31.0 | 33.1 | 35.4 | 28.1 | 28.7 | 30.7 | 32.8 |
|      |         | S/T     | 0.84                                 | 0.79 | 0.64 | 0.48 | 0.87 | 0.82 | 0.67 | 0.50 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.87 | 0.70 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.97 | 0.91 | 0.74 | 0.55 |
|      |         | Delta T | 25                                   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 23   | 22   | 19   | 16   |
|      |         | KW      | 3.02                                 | 3.09 | 3.19 | 3.29 | 3.26 | 3.33 | 3.44 | 3.55 | 3.46 | 3.54 | 3.66 | 3.78 | 3.65 | 3.73 | 3.85 | 3.98 | 3.80 | 3.89 | 4.02 | 4.16 | 3.94 | 4.03 | 4.16 | 4.30 |
|      |         | AMPS    | 13.6                                 | 13.9 | 14.3 | 14.8 | 14.6 | 14.9 | 15.4 | 15.9 | 15.7 | 16.1 | 16.6 | 17.2 | 16.7 | 17.1 | 17.6 | 18.3 | 17.7 | 18.1 | 18.7 | 19.4 | 18.7 | 19.1 | 19.7 | 20.4 |
|      |         | HI PR   | 165                                  | 178  | 188  | 196  | 186  | 200  | 211  | 220  | 211  | 227  | 240  | 250  | 240  | 259  | 273  | 285  | 271  | 291  | 307  | 321  | 299  | 322  | 340  | 354  |
|      |         | LO PR   | 63                                   | 67   | 73   | 78   | 67   | 71   | 77   | 82   | 69   | 74   | 80   | 86   | 73   | 77   | 85   | 90   | 76   | 81   | 89   | 94   | 79   | 84   | 92   | 98   |

|    |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85 | 1270 | MBh     | 35.8 | 36.5 | 38.2 | 40.8 | 35.0 | 35.7 | 37.4 | 39.9 | 34.2 | 34.8 | 36.5 | 38.9 | 33.3 | 34.0 | 35.6 | 38.0 | 31.7 | 32.3 | 33.8 | 36.1 | 29.3 | 29.9 | 31.3 | 33.4 |
|    |      | S/T     | 0.93 | 0.90 | 0.81 | 0.66 | 0.97 | 0.93 | 0.84 | 0.68 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.99 | 0.89 | 0.72 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.93 | 0.76 |
|    |      | Delta T | 24   | 24   | 22   | 19   | 24   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 23   | 23   | 23   | 20   | 21   | 22   | 21   | 18   |
|    |      | KW      | 3.10 | 3.16 | 3.26 | 3.37 | 3.34 | 3.41 | 3.52 | 3.64 | 3.55 | 3.63 | 3.75 | 3.88 | 3.74 | 3.82 | 3.95 | 4.09 | 3.90 | 3.99 | 4.12 | 4.26 | 4.04 | 4.13 | 4.27 | 4.42 |
|    |      | AMPS    | 13.9 | 14.2 | 14.7 | 15.2 | 15.0 | 15.3 | 15.7 | 16.3 | 16.1 | 16.5 | 17.0 | 17.6 | 17.2 | 17.6 | 18.1 | 18.7 | 18.2 | 18.6 | 19.2 | 19.9 | 19.2 | 19.6 | 20.3 | 21.0 |
|    |      | HI PR   | 171  | 183  | 194  | 202  | 191  | 206  | 217  | 227  | 218  | 234  | 247  | 258  | 248  | 267  | 282  | 294  | 279  | 300  | 317  | 330  | 308  | 332  | 350  | 365  |
|    |      | LO PR   | 65   | 69   | 76   | 80   | 69   | 73   | 80   | 85   | 71   | 76   | 83   | 88   | 75   | 80   | 87   | 93   | 79   | 84   | 91   | 97   | 81   | 87   | 94   | 101  |
|    | 1170 | MBh     | 35.5 | 36.2 | 37.9 | 40.4 | 34.6 | 35.3 | 37.0 | 39.5 | 33.8 | 34.5 | 36.1 | 38.5 | 33.0 | 33.6 | 35.2 | 37.6 | 31.3 | 31.9 | 33.5 | 35.7 | 29.0 | 29.6 | 31.0 | 33.1 |
|    |      | S/T     | 0.91 | 0.88 | 0.80 | 0.65 | 0.95 | 0.91 | 0.82 | 0.67 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.91 | 0.74 |
|    |      | Delta T | 25   | 25   | 24   | 20   | 26   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 26   | 26   | 24   | 21   | 25   | 25   | 24   | 21   | 23   | 23   | 22   | 19   |
|    |      | KW      | 3.09 | 3.16 | 3.26 | 3.36 | 3.33 | 3.40 | 3.51 | 3.63 | 3.54 | 3.62 | 3.74 | 3.87 | 3.73 | 3.82 | 3.94 | 4.08 | 3.89 | 3.98 | 4.11 | 4.25 | 4.03 | 4.12 | 4.26 | 4.41 |
|    |      | AMPS    | 13.9 | 14.2 | 14.6 | 15.1 | 14.9 | 15.2 | 15.7 | 16.2 | 16.1 | 16.5 | 17.0 | 17.6 | 17.1 | 17.5 | 18.1 | 18.7 | 18.1 | 18.6 | 19.1 | 19.8 | 19.2 | 19.6 | 20.2 | 20.9 |
|    |      | HI PR   | 170  | 183  | 193  | 201  | 191  | 205  | 217  | 226  | 217  | 233  | 247  | 257  | 247  | 266  | 281  | 293  | 278  | 299  | 316  | 329  | 307  | 331  | 349  | 364  |
|    |      | LO PR   | 65   | 69   | 75   | 80   | 69   | 73   | 80   | 85   | 71   | 76   | 83   | 88   | 75   | 80   | 87   | 93   | 78   | 83   | 91   | 97   | 81   | 86   | 94   | 100  |
|    | 1070 | MBh     | 34.9 | 35.6 | 37.3 | 39.8 | 34.1 | 34.8 | 36.4 | 38.9 | 33.3 | 34.0 | 35.6 | 37.9 | 32.5 | 33.1 | 34.7 | 37.0 | 30.9 | 31.5 | 33.0 | 35.2 | 28.6 | 29.2 | 30.5 | 32.6 |
|    |      | S/T     | 0.88 | 0.85 | 0.77 | 0.62 | 0.91 | 0.88 | 0.80 | 0.65 | 0.94 | 0.90 | 0.82 | 0.66 | 0.97 | 0.93 | 0.84 | 0.68 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 0.98 | 0.88 | 0.71 |
|    |      | Delta T | 26   | 26   | 25   | 21   | 27   | 26   | 25   | 22   | 27   | 26   | 25   | 22   | 27   | 27   | 25   | 22   | 27   | 26   | 25   | 21   | 25   | 24   | 23   | 20   |
|    |      | KW      | 3.05 | 3.11 | 3.21 | 3.32 | 3.28 | 3.36 | 3.46 | 3.58 | 3.49 | 3.57 | 3.69 | 3.81 | 3.68 | 3.76 | 3.89 | 4.02 | 3.84 | 3.92 | 4.05 | 4.19 | 3.97 | 4.06 | 4.20 | 4.34 |
|    |      | AMPS    | 13.7 | 14.0 | 14.4 | 14.9 | 14.7 | 15.0 | 15.5 | 16.0 | 15.9 | 16.2 | 16.7 | 17.3 | 16.9 | 17.3 | 17.8 | 18.4 | 17.9 | 18.3 | 18.9 | 19.5 | 18.9 | 19.3 | 19.9 | 20.6 |
|    |      | HI PR   | 167  | 180  | 190  | 198  | 188  | 202  | 213  | 222  | 213  | 229  | 242  | 253  | 243  | 261  | 276  | 288  | 273  | 294  | 311  | 324  | 302  | 325  | 343  | 358  |
|    |      | LO PR   | 64   | 68   | 74   | 79   | 67   | 72   | 78   | 83   | 70   | 74   | 81   | 87   | 74   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 80   | 85   | 93   | 99   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

## EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB42C02\*

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|      |         |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| IDB* | Airflow |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 70   | 1450    | MBh     | 39.4                                 | 40.8 | 44.7 | -    | 38.5 | 39.9 | 43.7 | -    | 37.6 | 38.9 | 42.7 | -    | 36.6 | 38.0 | 41.6 | -    | 34.8 | 36.1 | 39.5 | -    | 32.3 | 33.4 | 36.6 | -    |
|      |         | S/T     | 0.68                                 | 0.57 | 0.40 | -    | 0.71 | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.43 | -    | 0.78 | 0.65 | 0.45 | -    | 0.79 | 0.66 | 0.45 | -    |
|      |         | Delta T | 17                                   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 16   | 14   | 11   | -    |
|      |         | KW      | 3.36                                 | 3.43 | 3.53 | -    | 3.60 | 3.68 | 3.79 | -    | 3.82 | 3.90 | 4.03 | -    | 4.02 | 4.10 | 4.23 | -    | 4.18 | 4.27 | 4.41 | -    | 4.32 | 4.41 | 4.56 | -    |
|      |         | AMPS    | 19.0                                 | 19.3 | 19.8 | -    | 20.1 | 20.5 | 21.0 | -    | 21.5 | 21.9 | 22.5 | -    | 22.6 | 23.1 | 23.7 | -    | 23.8 | 24.3 | 24.9 | -    | 24.9 | 25.4 | 26.2 | -    |
|      |         | HI PR   | 165                                  | 178  | 188  | -    | 186  | 200  | 211  | -    | 211  | 227  | 240  | -    | 240  | 259  | 273  | -    | 271  | 291  | 307  | -    | 299  | 322  | 340  | -    |
|      |         | LO PR   | 62                                   | 66   | 72   | -    | 65   | 70   | 76   | -    | 68   | 72   | 79   | -    | 71   | 76   | 83   | -    | 75   | 80   | 87   | -    | 77   | 82   | 90   | -    |
|      | 1350    | MBh     | 39.0                                 | 40.4 | 44.3 | -    | 38.1 | 39.5 | 43.3 | -    | 37.2 | 38.5 | 42.2 | -    | 36.3 | 37.6 | 41.2 | -    | 34.5 | 35.7 | 39.1 | -    | 31.9 | 33.1 | 36.3 | -    |
|      |         | S/T     | 0.67                                 | 0.56 | 0.39 | -    | 0.69 | 0.58 | 0.40 | -    | 0.71 | 0.60 | 0.41 | -    | 0.74 | 0.61 | 0.43 | -    | 0.76 | 0.64 | 0.44 | -    | 0.77 | 0.64 | 0.45 | -    |
|      |         | Delta T | 18                                   | 15   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 14   | 11   | -    |
|      |         | KW      | 3.35                                 | 3.42 | 3.52 | -    | 3.60 | 3.67 | 3.78 | -    | 3.81 | 3.89 | 4.02 | -    | 4.01 | 4.09 | 4.22 | -    | 4.17 | 4.26 | 4.39 | -    | 4.31 | 4.40 | 4.54 | -    |
|      |         | AMPS    | 18.9                                 | 19.3 | 19.7 | -    | 20.1 | 20.5 | 21.0 | -    | 21.4 | 21.8 | 22.4 | -    | 22.6 | 23.0 | 23.6 | -    | 23.7 | 24.2 | 24.9 | -    | 24.9 | 25.4 | 26.1 | -    |
|      |         | HI PR   | 165                                  | 178  | 187  | -    | 185  | 199  | 210  | -    | 210  | 227  | 239  | -    | 240  | 258  | 272  | -    | 270  | 290  | 306  | -    | 298  | 321  | 339  | -    |
|      |         | LO PR   | 62                                   | 66   | 72   | -    | 65   | 69   | 76   | -    | 68   | 72   | 79   | -    | 71   | 76   | 83   | -    | 75   | 79   | 87   | -    | 77   | 82   | 90   | -    |
|      | 1250    | MBh     | 38.4                                 | 39.8 | 43.6 | -    | 37.5 | 38.9 | 42.6 | -    | 36.6 | 38.0 | 41.6 | -    | 35.7 | 37.0 | 40.6 | -    | 34.0 | 35.2 | 38.6 | -    | 31.5 | 32.6 | 35.7 | -    |
|      |         | S/T     | 0.65                                 | 0.54 | 0.37 | -    | 0.67 | 0.56 | 0.39 | -    | 0.69 | 0.57 | 0.40 | -    | 0.71 | 0.59 | 0.41 | -    | 0.74 | 0.61 | 0.43 | -    | 0.74 | 0.62 | 0.43 | -    |
|      |         | Delta T | 18                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    |
|      |         | KW      | 3.31                                 | 3.37 | 3.48 | -    | 3.55 | 3.62 | 3.73 | -    | 3.76 | 3.84 | 3.96 | -    | 3.95 | 4.04 | 4.16 | -    | 4.11 | 4.20 | 4.33 | -    | 4.25 | 4.34 | 4.48 | -    |
|      |         | AMPS    | 18.7                                 | 19.0 | 19.5 | -    | 19.8 | 20.2 | 20.7 | -    | 21.2 | 21.6 | 22.1 | -    | 22.3 | 22.7 | 23.3 | -    | 23.4 | 23.9 | 24.6 | -    | 24.6 | 25.1 | 25.8 | -    |
|      |         | HI PR   | 162                                  | 174  | 184  | -    | 182  | 196  | 207  | -    | 207  | 223  | 235  | -    | 236  | 254  | 268  | -    | 265  | 285  | 301  | -    | 293  | 315  | 333  | -    |
|      |         | LO PR   | 61                                   | 64   | 70   | -    | 64   | 68   | 74   | -    | 67   | 71   | 77   | -    | 70   | 74   | 81   | -    | 73   | 78   | 85   | -    | 76   | 81   | 88   | -    |
| 75   | 1450    | MBh     | 40.1                                 | 41.3 | 44.6 | 47.9 | 39.1 | 40.3 | 43.6 | 46.8 | 38.2 | 39.3 | 42.6 | 45.7 | 37.3 | 38.4 | 41.5 | 44.6 | 35.4 | 36.5 | 39.5 | 42.3 | 32.8 | 33.8 | 36.6 | 39.2 |
|      |         | S/T     | 0.78                                 | 0.70 | 0.53 | 0.34 | 0.81 | 0.72 | 0.55 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.39 | 0.89 | 0.80 | 0.60 | 0.39 |
|      |         | Delta T | 20                                   | 18   | 15   | 10   | 20   | 18   | 15   | 10   | 20   | 18   | 15   | 10   | 20   | 19   | 15   | 10   | 20   | 18   | 15   | 10   | 19   | 17   | 14   | 10   |
|      |         | KW      | 3.38                                 | 3.45 | 3.56 | 3.67 | 3.63 | 3.71 | 3.82 | 3.94 | 3.85 | 3.93 | 4.06 | 4.19 | 4.05 | 4.13 | 4.27 | 4.40 | 4.21 | 4.30 | 4.44 | 4.59 | 4.36 | 4.45 | 4.59 | 4.75 |
|      |         | AMPS    | 19.1                                 | 19.4 | 19.9 | 20.5 | 20.3 | 20.6 | 21.2 | 21.8 | 21.6 | 22.0 | 22.6 | 23.3 | 22.8 | 23.2 | 23.9 | 24.6 | 24.0 | 24.5 | 25.1 | 25.9 | 25.1 | 25.6 | 26.4 | 27.2 |
|      |         | HI PR   | 167                                  | 180  | 190  | 198  | 188  | 202  | 213  | 222  | 213  | 230  | 242  | 253  | 243  | 261  | 276  | 288  | 273  | 294  | 311  | 324  | 302  | 325  | 343  | 358  |
|      |         | LO PR   | 62                                   | 66   | 73   | 77   | 66   | 70   | 77   | 82   | 69   | 73   | 80   | 85   | 72   | 77   | 84   | 89   | 76   | 80   | 88   | 93   | 78   | 83   | 91   | 97   |
|      | 1350    | MBh     | 39.7                                 | 40.8 | 44.2 | 47.4 | 38.7 | 39.9 | 43.2 | 46.3 | 37.8 | 38.9 | 42.2 | 45.2 | 36.9 | 38.0 | 41.1 | 44.1 | 35.1 | 36.1 | 39.1 | 41.9 | 32.5 | 33.4 | 36.2 | 38.8 |
|      |         | S/T     | 0.76                                 | 0.68 | 0.52 | 0.33 | 0.79 | 0.71 | 0.53 | 0.34 | 0.81 | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.78 | 0.59 | 0.38 |
|      |         | Delta T | 21                                   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 19   | 18   | 15   | 10   |
|      |         | KW      | 3.38                                 | 3.44 | 3.55 | 3.66 | 3.62 | 3.70 | 3.81 | 3.93 | 3.84 | 3.93 | 4.05 | 4.18 | 4.04 | 4.12 | 4.26 | 4.39 | 4.20 | 4.29 | 4.43 | 4.58 | 4.34 | 4.44 | 4.58 | 4.73 |
|      |         | AMPS    | 19.0                                 | 19.4 | 19.9 | 20.5 | 20.2 | 20.6 | 21.1 | 21.7 | 21.6 | 22.0 | 22.6 | 23.3 | 22.8 | 23.2 | 23.8 | 24.6 | 23.9 | 24.4 | 25.1 | 25.8 | 25.1 | 25.6 | 26.3 | 27.1 |
|      |         | HI PR   | 167                                  | 179  | 189  | 197  | 187  | 201  | 212  | 222  | 213  | 229  | 242  | 252  | 242  | 261  | 275  | 287  | 272  | 293  | 310  | 323  | 301  | 324  | 342  | 357  |
|      |         | LO PR   | 62                                   | 66   | 72   | 77   | 66   | 70   | 76   | 81   | 68   | 73   | 79   | 85   | 72   | 76   | 83   | 89   | 75   | 80   | 87   | 93   | 78   | 83   | 90   | 96   |
|      | 1250    | MBh     | 39.1                                 | 40.2 | 43.5 | 46.7 | 38.2 | 39.3 | 42.5 | 45.6 | 37.3 | 38.4 | 41.5 | 44.6 | 36.3 | 37.4 | 40.5 | 43.5 | 34.5 | 35.6 | 38.5 | 41.3 | 32.0 | 32.9 | 35.6 | 38.3 |
|      |         | S/T     | 0.74                                 | 0.66 | 0.50 | 0.32 | 0.76 | 0.68 | 0.52 | 0.33 | 0.78 | 0.70 | 0.53 | 0.34 | 0.81 | 0.72 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.36 | 0.84 | 0.75 | 0.57 | 0.37 |
|      |         | Delta T | 21                                   | 19   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |
|      |         | KW      | 3.33                                 | 3.40 | 3.50 | 3.61 | 3.58 | 3.65 | 3.76 | 3.88 | 3.79 | 3.87 | 3.99 | 4.12 | 3.98 | 4.07 | 4.20 | 4.33 | 4.15 | 4.23 | 4.37 | 4.51 | 4.28 | 4.38 | 4.52 | 4.67 |
|      |         | AMPS    | 18.8                                 | 19.2 | 19.6 | 20.2 | 20.0 | 20.4 | 20.9 | 21.5 | 21.3 | 21.7 | 22.3 | 23.0 | 22.5 | 22.9 | 23.5 | 24.2 | 23.6 | 24.1 | 24.7 | 25.5 | 24.8 | 25.3 | 26.0 | 26.8 |
|      |         | HI PR   | 164                                  | 176  | 186  | 194  | 184  | 198  | 209  | 218  | 209  | 225  | 238  | 248  | 238  | 256  | 271  | 282  | 268  | 288  | 304  | 317  | 296  | 318  | 336  | 351  |
|      |         | LO PR   | 61                                   | 65   | 71   | 76   | 65   | 69   | 75   | 80   | 67   | 72   | 78   | 83   | 71   | 75   | 82   | 87   | 74   | 79   | 86   | 92   | 77   | 81   | 89   | 95   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB42C02\*

| IDB* Airflow |      |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              |      |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|              |      |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|              |      |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 80           | 1450 | MBh     | 40.8                                 | 41.7 | 44.5 | 47.6 | 39.8 | 40.7 | 43.5 | 46.5 | 38.9 | 39.7 | 42.4 | 45.4 | 37.9 | 38.8 | 41.4 | 44.3 | 36.0 | 36.8 | 39.3 | 42.1 | 33.4 | 34.1 | 36.4 | 39.0 |
|              |      | S/T     | 0.85                                 | 0.80 | 0.65 | 0.49 | 0.88 | 0.83 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.71 | 0.53 | 0.97 | 0.91 | 0.74 | 0.55 | 0.98 | 0.92 | 0.75 | 0.56 |
|              |      | Delta T | 22                                   | 21   | 18   | 15   | 22   | 21   | 19   | 15   | 22   | 21   | 19   | 15   | 22   | 22   | 19   | 15   | 22   | 21   | 18   | 15   | 21   | 20   | 17   | 14   |
|              |      | KW      | 3.41                                 | 3.48 | 3.58 | 3.70 | 3.66 | 3.74 | 3.85 | 3.98 | 3.88 | 3.97 | 4.09 | 4.22 | 4.08 | 4.17 | 4.30 | 4.44 | 4.25 | 4.34 | 4.48 | 4.63 | 4.39 | 4.49 | 4.63 | 4.78 |
|              |      | AMPS    | 19.2                                 | 19.6 | 20.1 | 20.6 | 20.4 | 20.8 | 21.3 | 22.0 | 21.8 | 22.2 | 22.8 | 23.5 | 23.0 | 23.4 | 24.1 | 24.8 | 24.2 | 24.6 | 25.3 | 26.1 | 25.3 | 25.8 | 26.6 | 27.4 |
|              |      | HI PR   | 169                                  | 182  | 192  | 200  | 189  | 204  | 215  | 225  | 215  | 232  | 245  | 255  | 245  | 264  | 279  | 291  | 276  | 297  | 314  | 327  | 305  | 328  | 347  | 361  |
|              |      | LO PR   | 63                                   | 67   | 73   | 78   | 67   | 71   | 77   | 82   | 69   | 74   | 80   | 86   | 73   | 77   | 85   | 90   | 76   | 81   | 89   | 94   | 79   | 84   | 92   | 98   |
|              | 1350 | MBh     | 40.4                                 | 41.3 | 44.1 | 47.1 | 39.4 | 40.3 | 43.1 | 46.0 | 38.5 | 39.3 | 42.0 | 44.9 | 37.6 | 38.4 | 41.0 | 43.8 | 35.7 | 36.5 | 39.0 | 41.6 | 33.0 | 33.8 | 36.1 | 38.6 |
|              |      | S/T     | 0.84                                 | 0.78 | 0.64 | 0.48 | 0.87 | 0.81 | 0.66 | 0.49 | 0.89 | 0.83 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.73 | 0.54 | 0.96 | 0.90 | 0.73 | 0.55 |
|              |      | Delta T | 23                                   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 16   | 23   | 22   | 20   | 16   | 23   | 22   | 19   | 15   | 22   | 21   | 18   | 14   |
|              |      | KW      | 3.40                                 | 3.47 | 3.58 | 3.69 | 3.65 | 3.73 | 3.84 | 3.97 | 3.88 | 3.96 | 4.08 | 4.21 | 4.07 | 4.16 | 4.29 | 4.43 | 4.24 | 4.33 | 4.47 | 4.61 | 4.38 | 4.48 | 4.62 | 4.77 |
|              |      | AMPS    | 19.2                                 | 19.5 | 20.0 | 20.6 | 20.4 | 20.7 | 21.3 | 21.9 | 21.7 | 22.2 | 22.7 | 23.4 | 22.9 | 23.4 | 24.0 | 24.7 | 24.1 | 24.6 | 25.3 | 26.0 | 25.3 | 25.8 | 26.5 | 27.3 |
|              |      | HI PR   | 168                                  | 181  | 191  | 199  | 189  | 203  | 215  | 224  | 215  | 231  | 244  | 255  | 245  | 263  | 278  | 290  | 275  | 296  | 313  | 326  | 304  | 327  | 346  | 360  |
|              |      | LO PR   | 63                                   | 67   | 73   | 78   | 66   | 71   | 77   | 82   | 69   | 74   | 80   | 85   | 73   | 77   | 84   | 90   | 76   | 81   | 88   | 94   | 79   | 84   | 91   | 97   |
|              | 1250 | MBh     | 39.8                                 | 40.6 | 43.4 | 46.4 | 38.8 | 39.7 | 42.4 | 45.3 | 37.9 | 38.7 | 41.4 | 44.3 | 37.0 | 37.8 | 40.4 | 43.2 | 35.1 | 35.9 | 38.4 | 41.0 | 32.6 | 33.3 | 35.5 | 38.0 |
|              |      | S/T     | 0.81                                 | 0.76 | 0.62 | 0.46 | 0.84 | 0.78 | 0.64 | 0.48 | 0.86 | 0.80 | 0.65 | 0.49 | 0.88 | 0.83 | 0.68 | 0.50 | 0.92 | 0.86 | 0.70 | 0.52 | 0.93 | 0.87 | 0.71 | 0.53 |
|              |      | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 22   | 21   | 18   | 15   |
|              |      | KW      | 3.36                                 | 3.43 | 3.53 | 3.64 | 3.61 | 3.68 | 3.79 | 3.91 | 3.82 | 3.90 | 4.03 | 4.15 | 4.02 | 4.10 | 4.23 | 4.37 | 4.18 | 4.27 | 4.41 | 4.55 | 4.32 | 4.41 | 4.56 | 4.71 |
|              |      | AMPS    | 19.0                                 | 19.3 | 19.8 | 20.3 | 20.1 | 20.5 | 21.0 | 21.6 | 21.5 | 21.9 | 22.5 | 23.1 | 22.6 | 23.1 | 23.7 | 24.4 | 23.8 | 24.3 | 24.9 | 25.7 | 24.9 | 25.4 | 26.2 | 27.0 |
|              |      | HI PR   | 165                                  | 178  | 188  | 196  | 186  | 200  | 211  | 220  | 211  | 227  | 240  | 250  | 240  | 259  | 273  | 285  | 271  | 291  | 307  | 321  | 299  | 322  | 340  | 354  |
|              |      | LO PR   | 62                                   | 66   | 72   | 77   | 65   | 70   | 76   | 81   | 68   | 72   | 79   | 84   | 71   | 76   | 83   | 88   | 75   | 80   | 87   | 92   | 77   | 82   | 90   | 96   |

|    |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85 | 1450 | MBh     | 41.5 | 42.3 | 44.3 | 47.3 | 40.5 | 41.3 | 43.3 | 46.2 | 39.6 | 40.3 | 42.2 | 45.1 | 38.6 | 39.3 | 41.2 | 44.0 | 36.7 | 37.4 | 39.1 | 41.8 | 34.0 | 34.6 | 36.3 | 38.7 |
|    |      | S/T     | 0.89 | 0.86 | 0.78 | 0.63 | 0.93 | 0.89 | 0.81 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 0.99 | 0.89 | 0.72 |
|    |      | Delta T | 24   | 23   | 22   | 19   | 24   | 23   | 22   | 19   | 24   | 23   | 22   | 19   | 24   | 24   | 22   | 19   | 23   | 23   | 22   | 19   | 22   | 22   | 21   | 18   |
|    |      | KW      | 3.44 | 3.51 | 3.61 | 3.72 | 3.69 | 3.77 | 3.88 | 4.01 | 3.92 | 4.00 | 4.12 | 4.26 | 4.11 | 4.20 | 4.34 | 4.48 | 4.28 | 4.37 | 4.52 | 4.66 | 4.43 | 4.52 | 4.67 | 4.82 |
|    |      | AMPS    | 19.4 | 19.7 | 20.2 | 20.8 | 20.6 | 20.9 | 21.5 | 22.1 | 21.9 | 22.4 | 23.0 | 23.7 | 23.1 | 23.6 | 24.2 | 25.0 | 24.3 | 24.8 | 25.5 | 26.3 | 25.5 | 26.0 | 26.8 | 27.6 |
|    |      | HI PR   | 171  | 183  | 194  | 202  | 191  | 206  | 217  | 227  | 218  | 234  | 247  | 258  | 248  | 267  | 282  | 294  | 279  | 300  | 317  | 330  | 308  | 332  | 350  | 365  |
|    |      | LO PR   | 64   | 68   | 74   | 79   | 67   | 72   | 78   | 83   | 70   | 74   | 81   | 87   | 74   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 80   | 85   | 93   | 99   |
|    | 1350 | MBh     | 41.1 | 41.9 | 43.9 | 46.8 | 40.1 | 40.9 | 42.8 | 45.7 | 39.2 | 39.9 | 41.8 | 44.6 | 38.2 | 39.0 | 40.8 | 43.5 | 36.3 | 37.0 | 38.8 | 41.3 | 33.6 | 34.3 | 35.9 | 38.3 |
|    |      | S/T     | 0.88 | 0.85 | 0.76 | 0.62 | 0.91 | 0.88 | 0.79 | 0.64 | 0.93 | 0.90 | 0.81 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 1.00 | 0.96 | 0.87 | 0.70 | 1.00 | 0.97 | 0.88 | 0.71 |
|    |      | Delta T | 25   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 25   | 25   | 23   | 20   | 25   | 24   | 23   | 20   | 23   | 23   | 21   | 19   |
|    |      | KW      | 3.43 | 3.50 | 3.60 | 3.72 | 3.68 | 3.76 | 3.87 | 4.00 | 3.91 | 3.99 | 4.11 | 4.25 | 4.10 | 4.19 | 4.32 | 4.47 | 4.27 | 4.36 | 4.50 | 4.65 | 4.42 | 4.51 | 4.66 | 4.81 |
|    |      | AMPS    | 19.3 | 19.7 | 20.2 | 20.7 | 20.5 | 20.9 | 21.4 | 22.1 | 21.9 | 22.3 | 22.9 | 23.6 | 23.1 | 23.5 | 24.2 | 24.9 | 24.3 | 24.8 | 25.5 | 26.3 | 25.5 | 26.0 | 26.7 | 27.6 |
|    |      | HI PR   | 170  | 183  | 193  | 201  | 191  | 205  | 217  | 226  | 217  | 233  | 247  | 257  | 247  | 266  | 281  | 293  | 278  | 299  | 316  | 329  | 307  | 331  | 349  | 364  |
|    |      | LO PR   | 64   | 68   | 74   | 79   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 86   | 73   | 78   | 85   | 91   | 77   | 82   | 89   | 95   | 79   | 85   | 92   | 98   |
|    | 1250 | MBh     | 40.5 | 41.2 | 43.2 | 46.1 | 39.5 | 40.3 | 42.2 | 45.0 | 38.6 | 39.3 | 41.2 | 43.9 | 37.6 | 38.4 | 40.2 | 42.9 | 35.8 | 36.4 | 38.2 | 40.7 | 33.1 | 33.8 | 35.4 | 37.7 |
|    |      | S/T     | 0.85 | 0.82 | 0.74 | 0.60 | 0.88 | 0.85 | 0.76 | 0.62 | 0.90 | 0.87 | 0.78 | 0.63 | 0.93 | 0.89 | 0.81 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 0.97 | 0.94 | 0.85 | 0.69 |
|    |      | Delta T | 25   | 25   | 23   | 20   | 25   | 25   | 24   | 20   | 25   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 25   | 25   | 24   | 20   | 24   | 23   | 22   | 19   |
|    |      | KW      | 3.38 | 3.45 | 3.56 | 3.67 | 3.63 | 3.71 | 3.82 | 3.94 | 3.85 | 3.93 | 4.06 | 4.19 | 4.05 | 4.13 | 4.27 | 4.40 | 4.21 | 4.30 | 4.44 | 4.59 | 4.35 | 4.45 | 4.59 | 4.74 |
|    |      | AMPS    | 19.1 | 19.4 | 19.9 | 20.5 | 20.3 | 20.6 | 21.2 | 21.8 | 21.6 | 22.0 | 22.6 | 23.3 | 22.8 | 23.2 | 23.9 | 24.6 | 24.0 | 24.5 | 25.1 | 25.9 | 25.1 | 25.6 | 26.4 | 27.2 |
|    |      | HI PR   | 167  | 180  | 190  | 198  | 188  | 202  | 213  | 222  | 213  | 229  | 242  | 253  | 243  | 261  | 276  | 288  | 273  | 294  | 311  | 324  | 302  | 325  | 343  | 358  |
|    |      | LO PR   | 62   | 66   | 73   | 77   | 66   | 70   | 77   | 82   | 69   | 73   | 80   | 85   | 72   | 77   | 84   | 89   | 76   | 80   | 88   | 93   | 78   | 83   | 91   | 97   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

## EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB48C02\*

COOLING PERFORMANCE DATA

|         |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |      |
|         |         |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|         |         |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |      |
| IDB*    | Airflow |         | MBh                                  | 45.6 | 47.3 | 51.8 | -    | 44.6 | 46.2 | 50.6 | -    | 43.5 | 45.1 | 49.4 | -    | 42.5 | 44.0 | 48.2 | -    | 40.3 | 41.8 | 45.8 | -    | 37.4 | 38.7 | 42.4 | -    |
| 70      | 1600    | S/T     | 0.67                                 | 0.56 | 0.39 | -    | 0.70 | 0.58 | 0.40 | -    | 0.72 | 0.60 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.44 | -    | 0.77 | 0.65 | 0.45 | -    |      |
|         |         | Delta T | 18                                   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 15   | 12   | -    | 17   | 14   | 11   | -    |      |
|         |         | KW      | 3.85                                 | 3.92 | 4.04 | -    | 4.12 | 4.20 | 4.32 | -    | 4.35 | 4.44 | 4.57 | -    | 4.56 | 4.65 | 4.80 | -    | 4.74 | 4.84 | 4.98 | -    | 4.89 | 4.99 | 5.15 | -    |      |
|         |         | AMPS    | 20.9                                 | 21.3 | 21.8 | -    | 22.2 | 22.6 | 23.1 | -    | 23.6 | 24.0 | 24.7 | -    | 24.8 | 25.3 | 26.0 | -    | 26.1 | 26.6 | 27.3 | -    | 27.3 | 27.8 | 28.6 | -    |      |
|         |         | HI PR   | 158                                  | 170  | 180  | -    | 178  | 191  | 202  | -    | 202  | 217  | 230  | -    | 230  | 248  | 261  | -    | 259  | 279  | 294  | -    | 286  | 308  | 325  | -    |      |
|         |         | LO PR   | 59                                   | 63   | 69   | -    | 63   | 67   | 73   | -    | 65   | 69   | 76   | -    | 69   | 73   | 80   | -    | 72   | 76   | 83   | -    | 74   | 79   | 86   | -    |      |
|         | 1500    | MBh     | 45.2                                 | 46.8 | 51.3 | -    | 44.1 | 45.7 | 50.1 | -    | 43.1 | 44.7 | 48.9 | -    | 42.0 | 43.6 | 47.7 | -    | 39.9 | 41.4 | 45.4 | -    | 37.0 | 38.3 | 42.0 | -    |      |
|         |         | S/T     | 0.66                                 | 0.55 | 0.38 | -    | 0.69 | 0.57 | 0.40 | -    | 0.70 | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.44 | -    | 0.76 | 0.63 | 0.44 | -    |      |
|         |         | Delta T | 18                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    |      |
|         |         | KW      | 3.84                                 | 3.91 | 4.03 | -    | 4.11 | 4.19 | 4.31 | -    | 4.34 | 4.43 | 4.56 | -    | 4.55 | 4.64 | 4.78 | -    | 4.73 | 4.83 | 4.97 | -    | 4.88 | 4.98 | 5.14 | -    |      |
|         |         | AMPS    | 20.9                                 | 21.2 | 21.8 | -    | 22.1 | 22.5 | 23.1 | -    | 23.5 | 24.0 | 24.6 | -    | 24.8 | 25.3 | 25.9 | -    | 26.0 | 26.5 | 27.2 | -    | 27.2 | 27.8 | 28.5 | -    |      |
|         |         | HI PR   | 158                                  | 170  | 179  | -    | 177  | 191  | 201  | -    | 201  | 217  | 229  | -    | 229  | 247  | 261  | -    | 258  | 278  | 293  | -    | 285  | 307  | 324  | -    |      |
|         | 1400    | LO PR   | 59                                   | 63   | 69   | -    | 63   | 67   | 73   | -    | 65   | 69   | 76   | -    | 68   | 73   | 79   | -    | 72   | 76   | 83   | -    | 74   | 79   | 86   | -    |      |
|         |         | MBh     | 44.5                                 | 46.1 | 50.5 | -    | 43.5 | 45.1 | 49.4 | -    | 42.4 | 44.0 | 48.2 | -    | 41.4 | 42.9 | 47.0 | -    | 39.3 | 40.8 | 44.7 | -    | 36.4 | 37.8 | 41.4 | -    |      |
|         |         | S/T     | 0.64                                 | 0.53 | 0.37 | -    | 0.66 | 0.55 | 0.38 | -    | 0.68 | 0.57 | 0.39 | -    | 0.70 | 0.58 | 0.40 | -    | 0.73 | 0.61 | 0.42 | -    | 0.73 | 0.61 | 0.42 | -    |      |
|         |         | Delta T | 19                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 18   | 15   | 12   | -    |      |
|         |         | KW      | 3.79                                 | 3.87 | 3.98 | -    | 4.06 | 4.14 | 4.26 | -    | 4.29 | 4.37 | 4.50 | -    | 4.49 | 4.58 | 4.72 | -    | 4.67 | 4.76 | 4.91 | -    | 4.82 | 4.92 | 5.07 | -    |      |
|         |         | AMPS    | 20.6                                 | 21.0 | 21.5 | -    | 21.9 | 22.3 | 22.8 | -    | 23.3 | 23.7 | 24.3 | -    | 24.5 | 24.9 | 25.6 | -    | 25.7 | 26.2 | 26.9 | -    | 26.9 | 27.4 | 28.2 | -    |      |
|         | 75      | 1600    | HI PR                                | 155  | 167  | 176  | -    | 174  | 187  | 198  | -    | 198  | 213  | 225  | -    | 225  | 243  | 256  | -    | 254  | 273  | 288  | -    | 280  | 302  | 319  | -    |
|         |         |         | LO PR                                | 58   | 62   | 68   | -    | 62   | 65   | 71   | -    | 64   | 68   | 74   | -    | 67   | 71   | 78   | -    | 70   | 75   | 82   | -    | 73   | 77   | 85   | -    |
|         |         |         | 1500                                 | MBh  | 46.4 | 47.8 | 51.7 | 55.5 | 45.3 | 46.7 | 50.5 | 54.2 | 44.3 | 45.6 | 49.3 | 52.9 | 43.2 | 44.5 | 48.1 | 51.6 | 41.0 | 42.2 | 45.7 | 49.1 | 38.0 | 39.1 | 42.3 |
| S/T     |         |         |                                      | 0.77 | 0.69 | 0.52 | 0.33 | 0.79 | 0.71 | 0.54 | 0.35 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.79 | 0.60 | 0.38 |
| Delta T |         |         |                                      | 20   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 19   | 18   | 14   | 10   |
| KW      |         |         |                                      | 3.88 | 3.95 | 4.07 | 4.18 | 4.15 | 4.23 | 4.35 | 4.48 | 4.39 | 4.47 | 4.61 | 4.75 | 4.60 | 4.69 | 4.83 | 4.98 | 4.78 | 4.87 | 5.02 | 5.18 | 4.93 | 5.03 | 5.19 | 5.35 |
| AMPS    |         | 21.1    |                                      | 21.4 | 22.0 | 22.6 | 22.3 | 22.7 | 23.3 | 23.9 | 23.8 | 24.2 | 24.8 | 25.6 | 25.0 | 25.5 | 26.2 | 26.9 | 26.3 | 26.8 | 27.5 | 28.3 | 27.5 | 28.1 | 28.8 | 29.7 |      |
| HI PR   |         | 160     |                                      | 172  | 182  | 190  | 179  | 193  | 204  | 213  | 204  | 220  | 232  | 242  | 232  | 250  | 264  | 275  | 261  | 281  | 297  | 310  | 289  | 311  | 328  | 342  |      |
| 1400    |         | LO PR   | 60                                   | 64   | 70   | 74   | 63   | 67   | 74   | 78   | 66   | 70   | 77   | 82   | 69   | 74   | 80   | 86   | 73   | 77   | 84   | 90   | 75   | 80   | 87   | 93   |      |
|         |         | MBh     | 46.0                                 | 47.3 | 51.2 | 55.0 | 44.9 | 46.2 | 50.0 | 53.7 | 43.8 | 45.1 | 48.8 | 52.4 | 42.8 | 44.0 | 47.6 | 51.1 | 40.6 | 41.8 | 45.3 | 48.6 | 37.6 | 38.7 | 41.9 | 45.0 |      |
|         |         | S/T     | 0.75                                 | 0.67 | 0.51 | 0.33 | 0.78 | 0.70 | 0.53 | 0.34 | 0.80 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.86 | 0.77 | 0.58 | 0.38 |      |
|         |         | Delta T | 21                                   | 19   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |      |
|         |         | KW      | 3.87                                 | 3.94 | 4.06 | 4.18 | 4.14 | 4.22 | 4.34 | 4.47 | 4.38 | 4.46 | 4.60 | 4.74 | 4.59 | 4.68 | 4.82 | 4.97 | 4.77 | 4.86 | 5.01 | 5.17 | 4.92 | 5.02 | 5.18 | 5.34 |      |
|         |         | AMPS    | 21.0                                 | 21.4 | 21.9 | 22.5 | 22.3 | 22.7 | 23.2 | 23.9 | 23.7 | 24.2 | 24.8 | 25.5 | 25.0 | 25.4 | 26.1 | 26.9 | 26.2 | 26.7 | 27.4 | 28.3 | 27.5 | 28.0 | 28.8 | 29.6 |      |
| 1400    |         | HI PR   | 159                                  | 172  | 181  | 189  | 179  | 193  | 203  | 212  | 203  | 219  | 231  | 241  | 232  | 249  | 263  | 275  | 261  | 281  | 296  | 309  | 288  | 310  | 327  | 341  |      |
|         |         | LO PR   | 60                                   | 64   | 70   | 74   | 63   | 67   | 73   | 78   | 66   | 70   | 76   | 81   | 69   | 73   | 80   | 85   | 72   | 77   | 84   | 90   | 75   | 80   | 87   | 93   |      |
|         |         | 1400    | MBh                                  | 45.3 | 46.6 | 50.4 | 54.1 | 44.2 | 45.5 | 49.3 | 52.9 | 43.2 | 44.4 | 48.1 | 51.6 | 42.1 | 43.4 | 46.9 | 50.4 | 40.0 | 41.2 | 44.6 | 47.8 | 37.1 | 38.2 | 41.3 | 44.3 |
|         |         |         | S/T                                  | 0.72 | 0.65 | 0.49 | 0.32 | 0.75 | 0.67 | 0.51 | 0.33 | 0.77 | 0.69 | 0.52 | 0.34 | 0.79 | 0.71 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.83 | 0.74 | 0.56 | 0.36 |
|         |         |         | Delta T                              | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 16   | 11   | 20   | 19   | 15   | 11   |
|         |         |         | KW                                   | 3.82 | 3.90 | 4.01 | 4.12 | 4.09 | 4.17 | 4.29 | 4.42 | 4.32 | 4.41 | 4.54 | 4.68 | 4.53 | 4.62 | 4.76 | 4.91 | 4.70 | 4.80 | 4.95 | 5.10 | 4.85 | 4.95 | 5.11 | 5.27 |
| AMPS    |         |         | 20.8                                 | 21.1 | 21.7 | 22.3 | 22.0 | 22.4 | 23.0 | 23.6 | 23.4 | 23.9 | 24.5 | 25.2 | 24.7 | 25.1 | 25.8 | 26.6 | 25.9 | 26.4 | 27.1 | 27.9 | 27.1 | 27.6 | 28.4 | 29.3 |      |
| HI PR   | 157     |         | 169                                  | 178  | 186  | 176  | 189  | 200  | 208  | 200  | 215  | 227  | 237  | 228  | 245  | 259  | 270  | 256  | 276  | 291  | 304  | 283  | 305  | 322  | 336  |      |      |
|         | LO PR   | 59      | 63                                   | 68   | 73   | 62   | 66   | 72   | 77   | 65   | 69   | 75   | 80   | 68   | 72   | 79   | 84   | 71   | 76   | 83   | 88   | 74   | 78   | 85   | 91   |      |      |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB48C02\*

COOLING PERFORMANCE DATA

|      |         |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|      |         |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|      |         |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
| IDB* | Airflow |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 80   | 1600    | MBh     | 47.2                                 | 48.3 | 51.6 | 55.1 | 46.1 | 47.1 | 50.4 | 53.8 | 45.0 | 46.0 | 49.2 | 52.6 | 43.9 | 44.9 | 48.0 | 51.3 | 41.7 | 42.7 | 45.6 | 48.7 | 38.7 | 39.5 | 42.2 | 45.1 |
|      |         | S/T     | 0.84                                 | 0.79 | 0.64 | 0.48 | 0.87 | 0.82 | 0.66 | 0.50 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.96 | 0.90 | 0.74 | 0.55 |
|      |         | Delta T | 23                                   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 21   | 21   | 18   | 14   |
|      |         | KW      | 3.91                                 | 3.98 | 4.10 | 4.22 | 4.18 | 4.26 | 4.39 | 4.52 | 4.42 | 4.51 | 4.64 | 4.79 | 4.63 | 4.73 | 4.87 | 5.02 | 4.81 | 4.91 | 5.06 | 5.22 | 4.97 | 5.07 | 5.23 | 5.40 |
|      |         | AMPS    | 21.2                                 | 21.6 | 22.1 | 22.7 | 22.5 | 22.9 | 23.4 | 24.1 | 23.9 | 24.4 | 25.0 | 25.7 | 25.2 | 25.7 | 26.4 | 27.1 | 26.5 | 27.0 | 27.7 | 28.6 | 27.7 | 28.3 | 29.0 | 29.9 |
|      |         | HI PR   | 162                                  | 174  | 184  | 191  | 181  | 195  | 206  | 215  | 206  | 222  | 234  | 244  | 235  | 253  | 267  | 278  | 264  | 284  | 300  | 313  | 292  | 314  | 332  | 346  |
|      |         | LO PR   | 61                                   | 65   | 70   | 75   | 64   | 68   | 74   | 79   | 67   | 71   | 77   | 82   | 70   | 74   | 81   | 87   | 73   | 78   | 85   | 91   | 76   | 81   | 88   | 94   |
|      | 1500    | MBh     | 46.8                                 | 47.8 | 51.1 | 54.6 | 45.7 | 46.7 | 49.9 | 53.3 | 44.6 | 45.6 | 48.7 | 52.0 | 43.5 | 44.5 | 47.5 | 50.8 | 41.3 | 42.2 | 45.1 | 48.2 | 38.3 | 39.1 | 41.8 | 44.7 |
|      |         | S/T     | 0.82                                 | 0.77 | 0.63 | 0.47 | 0.85 | 0.80 | 0.65 | 0.49 | 0.88 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.95 | 0.89 | 0.72 | 0.54 |
|      |         | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 22   | 21   | 19   | 15   |
|      |         | KW      | 3.90                                 | 3.97 | 4.09 | 4.21 | 4.17 | 4.25 | 4.38 | 4.51 | 4.41 | 4.50 | 4.63 | 4.78 | 4.62 | 4.72 | 4.86 | 5.01 | 4.80 | 4.90 | 5.05 | 5.21 | 4.96 | 5.06 | 5.22 | 5.38 |
|      |         | AMPS    | 21.2                                 | 21.5 | 22.1 | 22.7 | 22.4 | 22.8 | 23.4 | 24.1 | 23.9 | 24.3 | 25.0 | 25.7 | 25.1 | 25.6 | 26.3 | 27.1 | 26.4 | 26.9 | 27.6 | 28.5 | 27.7 | 28.2 | 29.0 | 29.9 |
|      |         | HI PR   | 161                                  | 173  | 183  | 191  | 181  | 194  | 205  | 214  | 206  | 221  | 234  | 244  | 234  | 252  | 266  | 277  | 263  | 283  | 299  | 312  | 291  | 313  | 331  | 345  |
|      |         | LO PR   | 60                                   | 64   | 70   | 75   | 64   | 68   | 74   | 79   | 66   | 71   | 77   | 82   | 70   | 74   | 81   | 86   | 73   | 78   | 85   | 90   | 76   | 80   | 88   | 94   |
|      | 1400    | MBh     | 46.1                                 | 47.1 | 50.3 | 53.8 | 45.0 | 46.0 | 49.1 | 52.5 | 43.9 | 44.9 | 48.0 | 51.3 | 42.9 | 43.8 | 46.8 | 50.0 | 40.7 | 41.6 | 44.4 | 47.5 | 37.7 | 38.5 | 41.2 | 44.0 |
|      |         | S/T     | 0.79                                 | 0.75 | 0.61 | 0.45 | 0.82 | 0.77 | 0.63 | 0.47 | 0.84 | 0.79 | 0.64 | 0.48 | 0.87 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.52 | 0.91 | 0.86 | 0.70 | 0.52 |
|      |         | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 25   | 24   | 20   | 16   | 24   | 23   | 20   | 16   | 23   | 22   | 19   | 15   |
|      |         | KW      | 3.85                                 | 3.92 | 4.04 | 4.15 | 4.12 | 4.20 | 4.32 | 4.45 | 4.35 | 4.44 | 4.57 | 4.71 | 4.56 | 4.65 | 4.80 | 4.94 | 4.74 | 4.84 | 4.99 | 5.14 | 4.89 | 4.99 | 5.15 | 5.31 |
|      |         | AMPS    | 20.9                                 | 21.3 | 21.8 | 22.4 | 22.2 | 22.6 | 23.1 | 23.8 | 23.6 | 24.0 | 24.7 | 25.4 | 24.8 | 25.3 | 26.0 | 26.7 | 26.1 | 26.6 | 27.3 | 28.1 | 27.3 | 27.8 | 28.6 | 29.5 |
|      |         | HI PR   | 158                                  | 170  | 180  | 188  | 178  | 191  | 202  | 211  | 202  | 217  | 230  | 239  | 230  | 248  | 261  | 273  | 259  | 279  | 294  | 307  | 286  | 308  | 325  | 339  |
|      |         | LO PR   | 59                                   | 63   | 69   | 74   | 63   | 67   | 73   | 78   | 65   | 69   | 76   | 81   | 69   | 73   | 80   | 85   | 72   | 76   | 83   | 89   | 74   | 79   | 86   | 92   |

|    |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85 | 1600 | MBh     | 48.1 | 49.0 | 51.3 | 54.7 | 46.9 | 47.9 | 50.1 | 53.5 | 45.8 | 46.7 | 48.9 | 52.2 | 44.7 | 45.6 | 47.7 | 50.9 | 42.5 | 43.3 | 45.3 | 48.4 | 39.3 | 40.1 | 42.0 | 44.8 |
|    |      | S/T     | 0.88 | 0.85 | 0.77 | 0.62 | 0.91 | 0.88 | 0.80 | 0.65 | 0.94 | 0.90 | 0.82 | 0.66 | 0.97 | 0.93 | 0.84 | 0.68 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 0.98 | 0.88 | 0.71 |
|    |      | Delta T | 24   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 25   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 23   | 22   | 21   | 18   |
|    |      | KW      | 3.93 | 4.01 | 4.13 | 4.25 | 4.21 | 4.29 | 4.42 | 4.55 | 4.45 | 4.54 | 4.68 | 4.82 | 4.67 | 4.76 | 4.91 | 5.06 | 4.85 | 4.95 | 5.10 | 5.26 | 5.01 | 5.11 | 5.27 | 5.44 |
|    |      | AMPS    | 21.3 | 21.7 | 22.3 | 22.9 | 22.6 | 23.0 | 23.6 | 24.3 | 24.1 | 24.6 | 25.2 | 25.9 | 25.4 | 25.9 | 26.6 | 27.3 | 26.7 | 27.2 | 27.9 | 28.8 | 27.9 | 28.5 | 29.3 | 30.2 |
|    |      | HI PR   | 163  | 176  | 185  | 193  | 183  | 197  | 208  | 217  | 208  | 224  | 237  | 247  | 237  | 255  | 269  | 281  | 267  | 287  | 303  | 316  | 295  | 317  | 335  | 349  |
|    |      | LO PR   | 61   | 65   | 71   | 76   | 65   | 69   | 75   | 80   | 67   | 72   | 78   | 83   | 71   | 75   | 82   | 87   | 74   | 79   | 86   | 92   | 77   | 81   | 89   | 95   |
|    | 1500 | MBh     | 47.6 | 48.5 | 50.8 | 54.2 | 46.5 | 47.4 | 49.6 | 52.9 | 45.4 | 46.3 | 48.4 | 51.7 | 44.3 | 45.1 | 47.3 | 50.4 | 42.1 | 42.9 | 44.9 | 47.9 | 39.0 | 39.7 | 41.6 | 44.4 |
|    |      | S/T     | 0.86 | 0.83 | 0.75 | 0.61 | 0.90 | 0.86 | 0.78 | 0.63 | 0.92 | 0.89 | 0.80 | 0.65 | 0.95 | 0.91 | 0.83 | 0.67 | 0.98 | 0.95 | 0.86 | 0.69 | 0.99 | 0.96 | 0.86 | 0.70 |
|    |      | Delta T | 25   | 25   | 23   | 20   | 26   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 25   | 25   | 24   | 20   | 24   | 23   | 22   | 19   |
|    |      | KW      | 3.93 | 4.00 | 4.12 | 4.24 | 4.20 | 4.28 | 4.41 | 4.54 | 4.44 | 4.53 | 4.67 | 4.81 | 4.66 | 4.75 | 4.90 | 5.05 | 4.84 | 4.94 | 5.09 | 5.25 | 5.00 | 5.10 | 5.26 | 5.43 |
|    |      | AMPS    | 21.3 | 21.7 | 22.2 | 22.8 | 22.6 | 23.0 | 23.6 | 24.2 | 24.1 | 24.5 | 25.1 | 25.9 | 25.3 | 25.8 | 26.5 | 27.3 | 26.6 | 27.1 | 27.8 | 28.7 | 27.9 | 28.4 | 29.2 | 30.1 |
|    |      | HI PR   | 163  | 175  | 185  | 193  | 183  | 196  | 207  | 216  | 208  | 223  | 236  | 246  | 236  | 254  | 269  | 280  | 266  | 286  | 302  | 315  | 294  | 316  | 334  | 348  |
|    |      | LO PR   | 61   | 65   | 71   | 76   | 65   | 69   | 75   | 80   | 67   | 71   | 78   | 83   | 70   | 75   | 82   | 87   | 74   | 79   | 86   | 91   | 76   | 81   | 89   | 94   |
|    | 1400 | MBh     | 46.9 | 47.8 | 50.0 | 53.4 | 45.8 | 46.7 | 48.9 | 52.1 | 44.7 | 45.6 | 47.7 | 50.9 | 43.6 | 44.4 | 46.6 | 49.7 | 41.4 | 42.2 | 44.2 | 47.2 | 38.4 | 39.1 | 41.0 | 43.7 |
|    |      | S/T     | 0.83 | 0.80 | 0.73 | 0.59 | 0.86 | 0.83 | 0.75 | 0.61 | 0.89 | 0.85 | 0.77 | 0.63 | 0.91 | 0.88 | 0.80 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.96 | 0.92 | 0.83 | 0.68 |
|    |      | Delta T | 26   | 25   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 26   | 24   | 21   | 26   | 25   | 24   | 21   | 24   | 24   | 22   | 19   |
|    |      | KW      | 3.88 | 3.95 | 4.07 | 4.18 | 4.15 | 4.23 | 4.35 | 4.48 | 4.39 | 4.47 | 4.61 | 4.75 | 4.60 | 4.69 | 4.83 | 4.98 | 4.78 | 4.87 | 5.02 | 5.18 | 4.93 | 5.03 | 5.19 | 5.35 |
|    |      | AMPS    | 21.1 | 21.4 | 21.9 | 22.6 | 22.3 | 22.7 | 23.3 | 23.9 | 23.8 | 24.2 | 24.8 | 25.6 | 25.0 | 25.5 | 26.2 | 26.9 | 26.3 | 26.8 | 27.5 | 28.3 | 27.5 | 28.1 | 28.8 | 29.7 |
|    |      | HI PR   | 160  | 172  | 182  | 190  | 179  | 193  | 204  | 213  | 204  | 220  | 232  | 242  | 232  | 250  | 264  | 275  | 261  | 281  | 297  | 310  | 289  | 311  | 328  | 342  |
|    |      | LO PR   | 60   | 64   | 70   | 74   | 63   | 67   | 74   | 78   | 66   | 70   | 77   | 82   | 69   | 74   | 80   | 86   | 73   | 77   | 84   | 90   | 75   | 80   | 87   | 93   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB60C02\*

COOLING PERFORMANCE DATA

| IDB* Airflow |      |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              |      |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|              |      |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|              |      |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 70           | 2000 | MBh     | 55.9                                 | 57.9 | 63.4 | -    | 54.6 | 56.5 | 62.0 | -    | 53.3 | 55.2 | 60.5 | -    | 52.0 | 53.9 | 59.0 | -    | 49.4 | 51.2 | 56.1 | -    | 45.7 | 47.4 | 51.9 | -    |
|              |      | S/T     | 0.67                                 | 0.56 | 0.39 | -    | 0.70 | 0.58 | 0.40 | -    | 0.72 | 0.60 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.44 | -    | 0.77 | 0.65 | 0.45 | -    |
|              |      | Delta T | 17                                   | 15   | 11   | -    | 17   | 15   | 11   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 17   | 15   | 11   | -    | 16   | 14   | 11   | -    |
|              |      | KW      | 4.73                                 | 4.83 | 4.98 | -    | 5.09 | 5.19 | 5.36 | -    | 5.40 | 5.52 | 5.70 | -    | 5.68 | 5.81 | 6.00 | -    | 5.92 | 6.05 | 6.25 | -    | 6.13 | 6.26 | 6.47 | -    |
|              |      | AMPS    | 19.9                                 | 20.4 | 21.0 | -    | 21.4 | 21.8 | 22.5 | -    | 23.0 | 23.5 | 24.3 | -    | 24.5 | 25.0 | 25.8 | -    | 25.9 | 26.5 | 27.3 | -    | 27.3 | 27.9 | 28.8 | -    |
|              |      | HI PR   | 173                                  | 186  | 197  | -    | 194  | 209  | 221  | -    | 221  | 238  | 251  | -    | 251  | 271  | 286  | -    | 283  | 304  | 321  | -    | 313  | 336  | 355  | -    |
|              |      | LO PR   | 57                                   | 61   | 67   | -    | 61   | 64   | 70   | -    | 63   | 67   | 73   | -    | 66   | 70   | 77   | -    | 69   | 74   | 80   | -    | 72   | 76   | 83   | -    |
|              | 1750 | MBh     | 54.2                                 | 56.2 | 61.6 | -    | 53.0 | 54.9 | 60.1 | -    | 51.7 | 53.6 | 58.7 | -    | 50.4 | 52.3 | 57.3 | -    | 47.9 | 49.7 | 54.4 | -    | 44.4 | 46.0 | 50.4 | -    |
|              |      | S/T     | 0.64                                 | 0.54 | 0.37 | -    | 0.67 | 0.56 | 0.38 | -    | 0.68 | 0.57 | 0.39 | -    | 0.70 | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.74 | 0.62 | 0.43 | -    |
|              |      | Delta T | 18                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    |
|              |      | KW      | 4.69                                 | 4.79 | 4.94 | -    | 5.05 | 5.15 | 5.32 | -    | 5.36 | 5.48 | 5.65 | -    | 5.64 | 5.76 | 5.95 | -    | 5.87 | 6.00 | 6.20 | -    | 6.08 | 6.21 | 6.42 | -    |
|              |      | AMPS    | 19.8                                 | 20.2 | 20.8 | -    | 21.2 | 21.7 | 22.3 | -    | 22.8 | 23.3 | 24.1 | -    | 24.3 | 24.8 | 25.6 | -    | 25.7 | 26.3 | 27.1 | -    | 27.1 | 27.7 | 28.6 | -    |
|              |      | HI PR   | 171                                  | 184  | 195  | -    | 192  | 207  | 218  | -    | 219  | 235  | 248  | -    | 249  | 268  | 283  | -    | 280  | 301  | 318  | -    | 309  | 333  | 352  | -    |
|              |      | LO PR   | 57                                   | 60   | 66   | -    | 60   | 64   | 70   | -    | 62   | 66   | 72   | -    | 65   | 70   | 76   | -    | 69   | 73   | 80   | -    | 71   | 76   | 82   | -    |
|              | 1600 | MBh     | 53.4                                 | 55.4 | 60.7 | -    | 52.2 | 54.1 | 59.2 | -    | 50.9 | 52.8 | 57.8 | -    | 49.7 | 51.5 | 56.4 | -    | 47.2 | 48.9 | 53.6 | -    | 43.7 | 45.3 | 49.7 | -    |
|              |      | S/T     | 0.62                                 | 0.52 | 0.36 | -    | 0.64 | 0.54 | 0.37 | -    | 0.66 | 0.55 | 0.38 | -    | 0.68 | 0.57 | 0.39 | -    | 0.70 | 0.59 | 0.41 | -    | 0.71 | 0.59 | 0.41 | -    |
|              |      | Delta T | 19                                   | 16   | 12   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 18   | 15   | 12   | -    |
|              |      | KW      | 4.63                                 | 4.72 | 4.87 | -    | 4.98 | 5.08 | 5.24 | -    | 5.29 | 5.40 | 5.57 | -    | 5.56 | 5.68 | 5.87 | -    | 5.79 | 5.92 | 6.11 | -    | 5.99 | 6.12 | 6.33 | -    |
|              |      | AMPS    | 19.5                                 | 19.9 | 20.5 | -    | 20.9 | 21.4 | 22.0 | -    | 22.5 | 23.0 | 23.7 | -    | 23.9 | 24.5 | 25.2 | -    | 25.3 | 25.9 | 26.7 | -    | 26.7 | 27.3 | 28.1 | -    |
|              |      | HI PR   | 168                                  | 181  | 191  | -    | 189  | 203  | 215  | -    | 215  | 231  | 244  | -    | 245  | 263  | 278  | -    | 275  | 296  | 313  | -    | 304  | 327  | 346  | -    |
|              |      | LO PR   | 56                                   | 59   | 65   | -    | 59   | 63   | 68   | -    | 61   | 65   | 71   | -    | 64   | 68   | 75   | -    | 67   | 72   | 78   | -    | 70   | 74   | 81   | -    |
| 75           | 2000 | MBh     | 56.8                                 | 58.5 | 63.3 | 67.9 | 55.5 | 57.1 | 61.8 | 66.4 | 54.2 | 55.8 | 60.4 | 64.8 | 52.8 | 54.4 | 58.9 | 63.2 | 50.2 | 51.7 | 55.9 | 60.0 | 46.5 | 47.9 | 51.8 | 55.6 |
|              |      | S/T     | 0.76                                 | 0.68 | 0.52 | 0.33 | 0.79 | 0.71 | 0.54 | 0.35 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.79 | 0.59 | 0.38 |
|              |      | Delta T | 20                                   | 18   | 15   | 10   | 20   | 19   | 15   | 11   | 20   | 19   | 15   | 11   | 20   | 19   | 15   | 11   | 20   | 19   | 15   | 10   | 19   | 17   | 14   | 10   |
|              |      | KW      | 4.76                                 | 4.86 | 5.02 | 5.18 | 5.13 | 5.24 | 5.40 | 5.58 | 5.45 | 5.57 | 5.75 | 5.94 | 5.73 | 5.86 | 6.05 | 6.25 | 5.97 | 6.11 | 6.31 | 6.52 | 6.18 | 6.32 | 6.53 | 6.75 |
|              |      | AMPS    | 20.1                                 | 20.5 | 21.1 | 21.8 | 21.6 | 22.0 | 22.7 | 23.4 | 23.2 | 23.7 | 24.5 | 25.3 | 24.7 | 25.2 | 26.0 | 26.9 | 26.1 | 26.7 | 27.5 | 28.5 | 27.6 | 28.2 | 29.1 | 30.1 |
|              |      | HI PR   | 175                                  | 188  | 199  | 207  | 196  | 211  | 223  | 232  | 223  | 240  | 253  | 264  | 254  | 273  | 289  | 301  | 286  | 308  | 325  | 339  | 316  | 340  | 359  | 374  |
|              |      | LO PR   | 58                                   | 62   | 67   | 72   | 61   | 65   | 71   | 76   | 64   | 68   | 74   | 79   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 87   | 72   | 77   | 84   | 90   |
|              | 1750 | MBh     | 55.1                                 | 56.8 | 61.5 | 66.0 | 53.9 | 55.5 | 60.0 | 64.4 | 52.6 | 54.1 | 58.6 | 62.9 | 51.3 | 52.8 | 57.2 | 61.4 | 48.7 | 50.2 | 54.3 | 58.3 | 45.1 | 46.5 | 50.3 | 54.0 |
|              |      | S/T     | 0.73                                 | 0.65 | 0.49 | 0.32 | 0.76 | 0.68 | 0.51 | 0.33 | 0.78 | 0.69 | 0.52 | 0.34 | 0.80 | 0.72 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.84 | 0.75 | 0.57 | 0.36 |
|              |      | Delta T | 21                                   | 19   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |
|              |      | KW      | 4.73                                 | 4.83 | 4.98 | 5.14 | 5.09 | 5.20 | 5.36 | 5.53 | 5.40 | 5.52 | 5.70 | 5.89 | 5.69 | 5.81 | 6.00 | 6.20 | 5.92 | 6.05 | 6.25 | 6.46 | 6.13 | 6.27 | 6.47 | 6.69 |
|              |      | AMPS    | 19.9                                 | 20.4 | 21.0 | 21.7 | 21.4 | 21.8 | 22.5 | 23.2 | 23.0 | 23.5 | 24.3 | 25.1 | 24.5 | 25.0 | 25.8 | 26.7 | 25.9 | 26.5 | 27.3 | 28.3 | 27.3 | 27.9 | 28.8 | 29.8 |
|              |      | HI PR   | 173                                  | 186  | 197  | 205  | 194  | 209  | 221  | 230  | 221  | 238  | 251  | 262  | 252  | 271  | 286  | 298  | 283  | 304  | 322  | 335  | 313  | 336  | 355  | 371  |
|              |      | LO PR   | 57                                   | 61   | 67   | 71   | 61   | 64   | 70   | 75   | 63   | 67   | 73   | 78   | 66   | 70   | 77   | 82   | 69   | 74   | 81   | 86   | 72   | 76   | 83   | 89   |
|              | 1600 | MBh     | 54.3                                 | 55.9 | 60.5 | 65.0 | 53.1 | 54.6 | 59.1 | 63.5 | 51.8 | 53.3 | 57.7 | 62.0 | 50.5 | 52.0 | 56.3 | 60.4 | 48.0 | 49.4 | 53.5 | 57.4 | 44.5 | 45.8 | 49.6 | 53.2 |
|              |      | S/T     | 0.70                                 | 0.63 | 0.48 | 0.31 | 0.73 | 0.65 | 0.49 | 0.32 | 0.75 | 0.67 | 0.51 | 0.33 | 0.77 | 0.69 | 0.52 | 0.34 | 0.80 | 0.72 | 0.54 | 0.35 | 0.81 | 0.72 | 0.55 | 0.35 |
|              |      | Delta T | 22                                   | 20   | 17   | 11   | 22   | 20   | 17   | 12   | 22   | 20   | 17   | 12   | 22   | 21   | 17   | 12   | 22   | 20   | 17   | 12   | 21   | 19   | 16   | 11   |
|              |      | KW      | 4.66                                 | 4.76 | 4.91 | 5.07 | 5.02 | 5.12 | 5.29 | 5.46 | 5.33 | 5.45 | 5.62 | 5.80 | 5.61 | 5.73 | 5.91 | 6.11 | 5.84 | 5.97 | 6.16 | 6.37 | 6.04 | 6.18 | 6.38 | 6.60 |
|              |      | AMPS    | 19.7                                 | 20.1 | 20.7 | 21.4 | 21.1 | 21.5 | 22.2 | 22.9 | 22.7 | 23.2 | 23.9 | 24.7 | 24.1 | 24.7 | 25.4 | 26.3 | 25.5 | 26.1 | 26.9 | 27.8 | 26.9 | 27.5 | 28.4 | 29.4 |
|              |      | HI PR   | 170                                  | 183  | 193  | 202  | 191  | 205  | 217  | 226  | 217  | 234  | 247  | 257  | 247  | 266  | 281  | 293  | 278  | 299  | 316  | 330  | 307  | 331  | 349  | 364  |
|              |      | LO PR   | 56                                   | 60   | 65   | 70   | 60   | 63   | 69   | 74   | 62   | 66   | 72   | 77   | 65   | 69   | 76   | 80   | 68   | 72   | 79   | 84   | 70   | 75   | 82   | 87   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

# EXPANDED PERFORMANCE DATA

COOLING OPERATION

MODEL: PHB60C02\*

| IDB* Airflow |      |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|--------------|------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|              |      |         | 65                                   |      |      |      | 75   |      |      |      | 85   |      |      |      | 95   |      |      |      | 105  |      |      |      | 115  |      |      |      |
|              |      |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|              |      |         | 59                                   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |
| 80           | 2000 | MBh     | 57.8                                 | 59.1 | 63.1 | 67.5 | 56.5 | 57.7 | 61.6 | 65.9 | 55.1 | 56.3 | 60.2 | 64.3 | 53.8 | 55.0 | 58.7 | 62.8 | 51.1 | 52.2 | 55.8 | 59.6 | 47.3 | 48.4 | 51.7 | 55.2 |
|              |      | S/T     | 0.84                                 | 0.79 | 0.64 | 0.48 | 0.87 | 0.82 | 0.66 | 0.50 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.53 | 0.96 | 0.90 | 0.73 | 0.54 | 0.96 | 0.90 | 0.74 | 0.55 |
|              |      | Delta T | 22                                   | 21   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 22   | 21   | 19   | 15   | 21   | 20   | 17   | 14   |
|              |      | KW      | 4.80                                 | 4.90 | 5.06 | 5.22 | 5.17 | 5.28 | 5.45 | 5.63 | 5.49 | 5.61 | 5.79 | 5.99 | 5.78 | 5.91 | 6.10 | 6.30 | 6.02 | 6.16 | 6.36 | 6.57 | 6.23 | 6.37 | 6.58 | 6.81 |
|              |      | AMPS    | 20.3                                 | 20.7 | 21.3 | 22.0 | 21.7 | 22.2 | 22.9 | 23.6 | 23.4 | 23.9 | 24.7 | 25.5 | 24.9 | 25.4 | 26.2 | 27.1 | 26.3 | 26.9 | 27.8 | 28.8 | 27.8 | 28.4 | 29.3 | 30.3 |
|              |      | HI PR   | 177                                  | 190  | 201  | 209  | 198  | 213  | 225  | 235  | 225  | 242  | 256  | 267  | 257  | 276  | 292  | 304  | 289  | 311  | 328  | 342  | 319  | 343  | 362  | 378  |
|              |      | LO PR   | 59                                   | 62   | 68   | 72   | 62   | 66   | 72   | 76   | 64   | 68   | 75   | 79   | 67   | 72   | 78   | 83   | 71   | 75   | 82   | 87   | 73   | 78   | 85   | 90   |
|              | 1750 | MBh     | 56.1                                 | 57.4 | 61.3 | 65.5 | 54.8 | 56.0 | 59.9 | 64.0 | 53.5 | 54.7 | 58.4 | 62.5 | 52.2 | 53.4 | 57.0 | 60.9 | 49.6 | 50.7 | 54.2 | 57.9 | 45.9 | 46.9 | 50.2 | 53.6 |
|              |      | S/T     | 0.80                                 | 0.75 | 0.61 | 0.46 | 0.83 | 0.78 | 0.63 | 0.47 | 0.85 | 0.80 | 0.65 | 0.49 | 0.88 | 0.82 | 0.67 | 0.50 | 0.91 | 0.85 | 0.70 | 0.52 | 0.92 | 0.86 | 0.70 | 0.52 |
|              |      | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 22   | 21   | 18   | 15   |
|              |      | KW      | 4.76                                 | 4.86 | 5.02 | 5.18 | 5.13 | 5.24 | 5.40 | 5.58 | 5.45 | 5.57 | 5.75 | 5.94 | 5.73 | 5.86 | 6.05 | 6.25 | 5.97 | 6.11 | 6.31 | 6.52 | 6.18 | 6.32 | 6.53 | 6.75 |
|              |      | AMPS    | 20.1                                 | 20.5 | 21.1 | 21.8 | 21.6 | 22.0 | 22.7 | 23.4 | 23.2 | 23.7 | 24.5 | 25.3 | 24.7 | 25.2 | 26.0 | 26.9 | 26.1 | 26.7 | 27.5 | 28.5 | 27.6 | 28.2 | 29.1 | 30.1 |
|              |      | HI PR   | 175                                  | 188  | 199  | 207  | 196  | 211  | 223  | 232  | 223  | 240  | 253  | 264  | 254  | 273  | 289  | 301  | 286  | 308  | 325  | 339  | 316  | 340  | 359  | 374  |
|              |      | LO PR   | 58                                   | 62   | 67   | 72   | 61   | 65   | 71   | 76   | 64   | 68   | 74   | 79   | 67   | 71   | 78   | 83   | 70   | 74   | 81   | 87   | 72   | 77   | 84   | 90   |
|              | 1600 | MBh     | 55.3                                 | 56.5 | 60.4 | 64.5 | 54.0 | 55.2 | 59.0 | 63.0 | 52.7 | 53.9 | 57.5 | 61.5 | 51.4 | 52.6 | 56.1 | 60.0 | 48.9 | 49.9 | 53.3 | 57.0 | 45.3 | 46.2 | 49.4 | 52.8 |
|              |      | S/T     | 0.77                                 | 0.72 | 0.59 | 0.44 | 0.80 | 0.75 | 0.61 | 0.46 | 0.82 | 0.77 | 0.63 | 0.47 | 0.85 | 0.79 | 0.65 | 0.48 | 0.88 | 0.82 | 0.67 | 0.50 | 0.89 | 0.83 | 0.68 | 0.51 |
|              |      | Delta T | 25                                   | 23   | 20   | 16   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 16   | 23   | 22   | 19   | 15   |
|              |      | KW      | 4.70                                 | 4.80 | 4.95 | 5.11 | 5.06 | 5.17 | 5.33 | 5.50 | 5.37 | 5.49 | 5.67 | 5.85 | 5.65 | 5.78 | 5.96 | 6.16 | 5.89 | 6.02 | 6.22 | 6.43 | 6.09 | 6.23 | 6.43 | 6.65 |
|              |      | AMPS    | 19.8                                 | 20.3 | 20.8 | 21.5 | 21.3 | 21.7 | 22.4 | 23.1 | 22.9 | 23.4 | 24.1 | 24.9 | 24.3 | 24.9 | 25.6 | 26.5 | 25.8 | 26.3 | 27.1 | 28.1 | 27.2 | 27.8 | 28.6 | 29.6 |
|              |      | HI PR   | 172                                  | 185  | 195  | 204  | 193  | 207  | 219  | 229  | 219  | 236  | 249  | 260  | 250  | 269  | 284  | 296  | 281  | 302  | 319  | 333  | 310  | 334  | 353  | 368  |
|              |      | LO PR   | 57                                   | 61   | 66   | 70   | 60   | 64   | 70   | 74   | 63   | 67   | 73   | 77   | 66   | 70   | 76   | 81   | 69   | 73   | 80   | 85   | 71   | 76   | 83   | 88   |
| 85           | 2000 | MBh     | 58.8                                 | 60.0 | 62.8 | 67.0 | 57.5 | 58.6 | 61.3 | 65.4 | 56.1 | 57.2 | 59.9 | 63.9 | 54.7 | 55.8 | 58.4 | 62.3 | 52.0 | 53.0 | 55.5 | 59.2 | 48.2 | 49.1 | 51.4 | 54.8 |
|              |      | S/T     | 0.88                                 | 0.85 | 0.77 | 0.62 | 0.91 | 0.88 | 0.79 | 0.64 | 0.93 | 0.90 | 0.81 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 0.97 | 0.88 | 0.71 |
|              |      | Delta T | 24                                   | 23   | 22   | 19   | 24   | 24   | 22   | 19   | 24   | 24   | 22   | 19   | 24   | 24   | 23   | 20   | 24   | 24   | 22   | 19   | 22   | 22   | 21   | 18   |
|              |      | KW      | 4.84                                 | 4.94 | 5.10 | 5.26 | 5.21 | 5.32 | 5.49 | 5.67 | 5.54 | 5.66 | 5.84 | 6.04 | 5.83 | 5.96 | 6.15 | 6.36 | 6.07 | 6.21 | 6.41 | 6.63 | 6.29 | 6.43 | 6.64 | 6.86 |
|              |      | AMPS    | 20.4                                 | 20.9 | 21.5 | 22.2 | 21.9 | 22.4 | 23.1 | 23.8 | 23.6 | 24.1 | 24.9 | 25.7 | 25.1 | 25.7 | 26.4 | 27.4 | 26.6 | 27.2 | 28.0 | 29.0 | 28.0 | 28.7 | 29.6 | 30.6 |
|              |      | HI PR   | 178                                  | 192  | 203  | 211  | 200  | 215  | 227  | 237  | 228  | 245  | 259  | 270  | 259  | 279  | 295  | 307  | 292  | 314  | 331  | 346  | 322  | 347  | 366  | 382  |
|              |      | LO PR   | 59                                   | 63   | 69   | 73   | 62   | 66   | 73   | 77   | 65   | 69   | 75   | 80   | 68   | 73   | 79   | 84   | 71   | 76   | 83   | 88   | 74   | 79   | 86   | 91   |
|              | 1750 | MBh     | 57.1                                 | 58.2 | 61.0 | 65.0 | 55.8 | 56.9 | 59.6 | 63.5 | 54.5 | 55.5 | 58.1 | 62.0 | 53.1 | 54.2 | 56.7 | 60.5 | 50.5 | 51.4 | 53.9 | 57.5 | 46.7 | 47.7 | 49.9 | 53.2 |
|              |      | S/T     | 0.84                                 | 0.81 | 0.73 | 0.59 | 0.87 | 0.84 | 0.76 | 0.61 | 0.89 | 0.86 | 0.78 | 0.63 | 0.92 | 0.89 | 0.80 | 0.65 | 0.96 | 0.92 | 0.83 | 0.67 | 0.96 | 0.93 | 0.84 | 0.68 |
|              |      | Delta T | 25                                   | 25   | 23   | 20   | 25   | 25   | 24   | 20   | 26   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 25   | 25   | 24   | 20   | 24   | 23   | 22   | 19   |
|              |      | KW      | 4.80                                 | 4.90 | 5.06 | 5.22 | 5.17 | 5.28 | 5.45 | 5.63 | 5.49 | 5.61 | 5.79 | 5.99 | 5.78 | 5.91 | 6.10 | 6.30 | 6.02 | 6.16 | 6.36 | 6.57 | 6.23 | 6.37 | 6.58 | 6.81 |
|              |      | AMPS    | 20.3                                 | 20.7 | 21.3 | 22.0 | 21.7 | 22.2 | 22.9 | 23.6 | 23.4 | 23.9 | 24.7 | 25.5 | 24.9 | 25.4 | 26.2 | 27.1 | 26.3 | 26.9 | 27.8 | 28.8 | 27.8 | 28.4 | 29.3 | 30.3 |
|              |      | HI PR   | 177                                  | 190  | 201  | 209  | 198  | 213  | 225  | 235  | 225  | 242  | 256  | 267  | 257  | 276  | 292  | 304  | 289  | 311  | 328  | 342  | 319  | 343  | 362  | 378  |
|              |      | LO PR   | 59                                   | 62   | 68   | 72   | 62   | 66   | 72   | 76   | 64   | 68   | 75   | 79   | 67   | 72   | 78   | 83   | 71   | 75   | 82   | 87   | 73   | 78   | 85   | 90   |
|              | 1600 | MBh     | 56.3                                 | 57.3 | 60.1 | 64.1 | 54.9 | 56.0 | 58.7 | 62.6 | 53.6 | 54.7 | 57.3 | 61.1 | 52.3 | 53.3 | 55.9 | 59.6 | 49.7 | 50.7 | 53.1 | 56.6 | 46.0 | 46.9 | 49.2 | 52.4 |
|              |      | S/T     | 0.81                                 | 0.78 | 0.70 | 0.57 | 0.84 | 0.81 | 0.73 | 0.59 | 0.86 | 0.83 | 0.75 | 0.61 | 0.89 | 0.86 | 0.77 | 0.63 | 0.92 | 0.89 | 0.80 | 0.65 | 0.93 | 0.90 | 0.81 | 0.66 |
|              |      | Delta T | 26                                   | 26   | 24   | 21   | 26   | 26   | 25   | 21   | 26   | 26   | 25   | 21   | 27   | 26   | 25   | 21   | 26   | 26   | 24   | 21   | 25   | 24   | 23   | 20   |
|              |      | KW      | 4.74                                 | 4.84 | 4.99 | 5.15 | 5.10 | 5.21 | 5.37 | 5.55 | 5.42 | 5.53 | 5.71 | 5.90 | 5.70 | 5.82 | 6.01 | 6.21 | 5.94 | 6.07 | 6.27 | 6.48 | 6.14 | 6.28 | 6.49 | 6.71 |
|              |      | AMPS    | 20.0                                 | 20.4 | 21.0 | 21.7 | 21.4 | 21.9 | 22.5 | 23.3 | 23.1 | 23.6 | 24.3 | 25.1 | 24.5 | 25.1 | 25.8 | 26.7 | 26.0 | 26.6 | 27.4 | 28.3 | 27.4 | 28.0 | 28.9 | 29.9 |
|              |      | HI PR   | 174                                  | 187  | 197  | 206  | 195  | 210  | 221  | 231  | 221  | 238  | 252  | 262  | 252  | 271  | 287  | 299  | 284  | 305  | 322  | 336  | 314  | 337  | 356  | 372  |
|              |      | LO PR   | 58                                   | 61   | 67   | 71   | 61   | 65   | 71   | 75   | 63   | 67   | 73   | 78   | 66   | 71   | 77   | 82   | 70   | 74   | 81   | 86   | 72   | 76   | 84   | 89   |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ARI Rating Conditions

COOLING PERFORMANCE DATA

# HEATING PERFORMANCE DATA

## EXPANDED PERFORMANCE DATA

MODEL: PHB24C02\*

HEATING OPERATION

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    |      | -5   | -10  |
| MBh   | 29.9                        | 28.3 | 26.7 | 24.9 | 23.8 | 23.1 | 21.4 | 19.8 | 15.0 | 13.8 | 12.7 | 12.0 | 11.6 | 10.4 | 9.2  | 8.0  | 6.8  | 5.6  |
| T/R   | 32.6                        | 30.9 | 29.0 | 27.1 | 25.9 | 25.1 | 23.3 | 21.5 | 16.3 | 15.0 | 13.8 | 13.1 | 12.6 | 11.3 | 10.0 | 8.7  | 7.5  | 6.1  |
| KW    | 2.49                        | 2.45 | 2.40 | 2.35 | 2.32 | 2.30 | 2.26 | 2.21 | 2.47 | 2.41 | 2.36 | 1.93 | 1.91 | 1.87 | 1.82 | 1.78 | 1.73 | 1.69 |
| AMPS  | 12.5                        | 11.7 | 11.0 | 10.4 | 10.1 | 9.9  | 9.4  | 9.0  | 8.7  | 8.4  | 8.0  | 7.8  | 7.8  | 7.4  | 7.0  | 6.7  | 6.3  | 5.8  |
| COP   | 3.51                        | 3.39 | 3.25 | 3.10 | 3.00 | 2.93 | 2.78 | 2.62 | 1.77 | 1.68 | 1.58 | 1.82 | 1.77 | 1.63 | 1.48 | 1.32 | 1.15 | 0.97 |
| EER   | 12.0                        | 11.6 | 11.1 | 10.6 | 10.2 | 10.0 | 9.5  | 8.9  | 6.1  | 5.7  | 5.4  | 6.2  | 6.0  | 5.6  | 5.0  | 4.5  | 3.9  | 3.3  |
| HI PR | 252                         | 242  | 232  | 222  | 217  | 213  | 205  | 196  | 188  | 180  | 173  | 168  | 165  | 159  | 153  | 147  | 141  | 136  |
| LO PR | 76                          | 70   | 66   | 60   | 57   | 55   | 50   | 45   | 41   | 36   | 32   | 30   | 29   | 24   | 21   | 18   | 15   | 12   |

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHB30C2\*

HEATING OPERATION

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    |      | -5   | -10  |
| MBh   | 35.2                        | 33.3 | 31.4 | 29.3 | 28.0 | 27.1 | 25.2 | 23.2 | 17.7 | 16.3 | 15.0 | 14.2 | 13.7 | 12.3 | 10.9 | 9.5  | 8.1  | 6.6  |
| T/R   | 33.9                        | 32.1 | 30.2 | 28.3 | 27.0 | 26.2 | 24.3 | 22.4 | 17.1 | 15.8 | 14.5 | 13.7 | 13.2 | 11.8 | 10.5 | 9.1  | 7.8  | 6.4  |
| KW    | 2.86                        | 2.80 | 2.75 | 2.69 | 2.66 | 2.64 | 2.58 | 2.53 | 2.33 | 2.28 | 2.23 | 2.20 | 2.18 | 2.13 | 2.08 | 2.03 | 1.97 | 1.92 |
| AMPS  | 15.3                        | 14.3 | 13.4 | 12.7 | 12.3 | 12.1 | 11.5 | 10.9 | 10.5 | 10.1 | 9.7  | 9.5  | 9.4  | 9.0  | 8.5  | 8.0  | 7.5  | 6.9  |
| COP   | 3.60                        | 3.48 | 3.34 | 3.19 | 3.08 | 3.01 | 2.86 | 2.69 | 2.22 | 2.10 | 1.97 | 1.89 | 1.84 | 1.69 | 1.53 | 1.37 | 1.20 | 1.01 |
| EER   | 12.3                        | 11.9 | 11.4 | 10.9 | 10.5 | 10.3 | 9.8  | 9.2  | 7.6  | 7.2  | 6.7  | 6.5  | 6.3  | 5.8  | 5.2  | 4.7  | 4.1  | 3.4  |
| HI PR | 232                         | 223  | 214  | 205  | 200  | 196  | 189  | 181  | 173  | 166  | 159  | 155  | 152  | 147  | 141  | 135  | 130  | 126  |
| LO PR | 74                          | 69   | 65   | 59   | 56   | 54   | 50   | 44   | 40   | 36   | 31   | 29   | 28   | 24   | 20   | 17   | 15   | 12   |

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHB36C02\*

HEATING OPERATION

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    |      | -5   | -10  |
| MBh   | 44.5                        | 42.1 | 39.6 | 37.1 | 35.4 | 34.3 | 31.9 | 29.4 | 23.5 | 21.7 | 20.0 | 18.9 | 18.2 | 16.3 | 14.5 | 12.6 | 10.8 | 8.8  |
| T/R   | 35.2                        | 33.3 | 31.4 | 29.3 | 28.0 | 27.1 | 25.2 | 23.3 | 18.6 | 17.2 | 15.8 | 15.0 | 14.4 | 12.9 | 11.5 | 10.0 | 8.5  | 7.0  |
| KW    | 3.65                        | 3.58 | 3.50 | 3.43 | 3.39 | 3.36 | 3.29 | 3.22 | 3.61 | 3.52 | 3.44 | 2.72 | 2.69 | 2.63 | 2.57 | 2.50 | 2.44 | 2.37 |
| AMPS  | 20.2                        | 18.8 | 17.6 | 16.7 | 16.1 | 15.8 | 15.0 | 14.3 | 13.7 | 13.2 | 12.6 | 12.3 | 12.2 | 11.6 | 10.9 | 10.3 | 9.7  | 8.8  |
| COP   | 3.57                        | 3.45 | 3.31 | 3.16 | 3.06 | 2.99 | 2.83 | 2.67 | 1.91 | 1.80 | 1.70 | 2.03 | 1.98 | 1.82 | 1.65 | 1.48 | 1.29 | 1.09 |
| EER   | 12.2                        | 11.8 | 11.3 | 10.8 | 10.4 | 10.2 | 9.7  | 9.1  | 6.5  | 6.2  | 5.8  | 6.9  | 6.8  | 6.2  | 5.6  | 5.0  | 4.4  | 3.7  |
| HI PR | 273                         | 262  | 252  | 241  | 235  | 231  | 222  | 213  | 204  | 195  | 187  | 182  | 179  | 172  | 166  | 159  | 153  | 148  |
| LO PR | 78                          | 73   | 68   | 62   | 59   | 57   | 52   | 46   | 42   | 37   | 33   | 31   | 30   | 25   | 22   | 18   | 16   | 12   |

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHB42C02\*

HEATING OPERATION

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    |      | -5   | -10  |
| MBh   | 50.9                        | 48.2 | 45.4 | 42.4 | 40.5 | 39.2 | 36.5 | 33.6 | 26.9 | 24.8 | 22.9 | 21.6 | 20.8 | 18.7 | 16.5 | 14.4 | 12.3 | 10.1 |
| T/R   | 34.9                        | 33.1 | 31.1 | 29.1 | 27.8 | 26.9 | 25.0 | 23.1 | 18.5 | 17.0 | 15.7 | 14.8 | 14.3 | 12.8 | 11.3 | 9.9  | 8.4  | 6.9  |
| KW    | 4.13                        | 4.05 | 3.97 | 3.90 | 3.85 | 3.82 | 3.74 | 3.66 | 3.53 | 3.45 | 3.38 | 3.33 | 3.30 | 3.22 | 3.15 | 3.07 | 2.99 | 2.92 |
| AMPS  | 24.8                        | 23.3 | 22.1 | 21.1 | 20.5 | 20.2 | 19.3 | 18.6 | 18.0 | 17.4 | 16.8 | 16.5 | 16.3 | 15.7 | 15.0 | 14.4 | 13.6 | 12.7 |
| COP   | 3.61                        | 3.48 | 3.34 | 3.19 | 3.08 | 3.01 | 2.85 | 2.69 | 2.23 | 2.11 | 1.98 | 1.90 | 1.84 | 1.70 | 1.54 | 1.38 | 1.20 | 1.01 |
| EER   | 12.3                        | 11.9 | 11.4 | 10.9 | 10.5 | 10.3 | 9.7  | 9.2  | 7.6  | 7.2  | 6.8  | 6.5  | 6.3  | 5.8  | 5.3  | 4.7  | 4.1  | 3.5  |
| HI PR | 268                         | 257  | 247  | 237  | 231  | 227  | 218  | 209  | 200  | 191  | 184  | 179  | 176  | 169  | 163  | 156  | 151  | 145  |
| LO PR | 71                          | 66   | 62   | 56   | 53   | 51   | 47   | 42   | 38   | 34   | 30   | 28   | 27   | 23   | 19   | 16   | 14   | 11   |

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

# HEATING PERFORMANCE DATA

## EXPANDED PERFORMANCE DATA

MODEL: PHB48C02\*

HEATING OPERATION

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    |      | -5   | -10  |
| MBh   | 59.1                        | 55.9 | 52.6 | 49.2 | 47.0 | 45.5 | 42.3 | 39.0 | 33.6 | 31.1 | 28.6 | 27.0 | 26.0 | 23.3 | 20.7 | 18.0 | 15.4 | 12.6 |
| T/R   | 36.5                        | 34.5 | 32.5 | 30.4 | 29.0 | 28.1 | 26.1 | 24.1 | 20.8 | 19.2 | 17.7 | 16.7 | 16.1 | 14.4 | 12.8 | 11.1 | 9.5  | 7.8  |
| KW    | 4.88                        | 4.79 | 4.70 | 4.61 | 4.56 | 4.52 | 4.43 | 4.34 | 4.23 | 4.14 | 4.05 | 4.00 | 3.97 | 3.87 | 3.79 | 3.70 | 3.61 | 3.52 |
| AMPS  | 26.8                        | 25.3 | 24.0 | 22.9 | 22.3 | 22.0 | 21.1 | 20.3 | 19.6 | 19.0 | 18.4 | 18.1 | 17.9 | 17.3 | 16.5 | 15.9 | 15.1 | 14.2 |
| COP   | 3.54                        | 3.42 | 3.28 | 3.12 | 3.02 | 2.95 | 2.79 | 2.63 | 2.33 | 2.20 | 2.06 | 1.98 | 1.92 | 1.76 | 1.60 | 1.43 | 1.25 | 1.05 |
| EER   | 12.1                        | 11.7 | 11.2 | 10.7 | 10.3 | 10.1 | 9.5  | 9.0  | 8.0  | 7.5  | 7.1  | 6.8  | 6.6  | 6.0  | 5.5  | 4.9  | 4.3  | 3.6  |
| HI PR | 275                         | 264  | 254  | 243  | 237  | 232  | 223  | 214  | 205  | 196  | 188  | 184  | 181  | 174  | 167  | 160  | 155  | 149  |
| LO PR | 70                          | 65   | 61   | 56   | 53   | 51   | 47   | 42   | 38   | 34   | 30   | 28   | 27   | 22   | 19   | 16   | 14   | 11   |

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

MODEL: PHB60C2\*

HEATING OPERATION

|       | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|       | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    |      | -5   | -10  |
| MBh   | 71.6                        | 67.8 | 63.8 | 59.7 | 57.0 | 55.2 | 51.3 | 47.3 | 41.7 | 38.5 | 35.5 | 33.5 | 32.3 | 28.9 | 25.7 | 22.4 | 19.1 | 15.6 |
| T/R   | 37.9                        | 35.9 | 33.8 | 31.6 | 30.2 | 29.2 | 27.1 | 25.0 | 22.1 | 20.4 | 18.8 | 17.7 | 17.1 | 15.3 | 13.6 | 11.8 | 10.1 | 8.3  |
| KW    | 6.25                        | 6.12 | 6.00 | 5.87 | 5.80 | 5.75 | 5.63 | 5.50 | 5.21 | 5.09 | 4.97 | 4.90 | 4.85 | 4.73 | 4.62 | 4.50 | 4.38 | 4.26 |
| AMPS  | 31.3                        | 29.1 | 27.4 | 25.9 | 25.0 | 24.6 | 23.3 | 22.2 | 21.3 | 20.5 | 19.6 | 19.2 | 18.9 | 18.1 | 17.0 | 16.1 | 15.0 | 13.7 |
| COP   | 3.36                        | 3.24 | 3.12 | 2.97 | 2.88 | 2.81 | 2.67 | 2.52 | 2.35 | 2.22 | 2.09 | 2.00 | 1.95 | 1.79 | 1.63 | 1.46 | 1.28 | 1.07 |
| EER   | 11.5                        | 11.1 | 10.6 | 10.2 | 9.8  | 9.6  | 9.1  | 8.6  | 8.0  | 7.6  | 7.1  | 6.8  | 6.6  | 6.1  | 5.6  | 5.0  | 4.4  | 3.7  |
| HI PR | 316                         | 303  | 291  | 278  | 272  | 266  | 256  | 246  | 235  | 225  | 216  | 211  | 207  | 199  | 191  | 184  | 177  | 171  |
| LO PR | 67                          | 62   | 58   | 54   | 51   | 49   | 45   | 40   | 36   | 32   | 28   | 26   | 25   | 21   | 18   | 16   | 14   | 11   |

Above information is for nominal CFM and 70 degree indoor dry bulb. Instantaneous capacity listed.

### PERFORMANCE TEST

All data based upon listed indoor dry bulb temperature. .00 inches external static pressure on coil of outdoor section. Indoor air cubic feet per minute (CFM) as listed in the Performance Data Sheets:

If conditions vary from this, results will change as follows:

1. As indoor dry bulb temperatures increase, a slight increase will occur in indoor air temperature drop ( $\Delta T$ ). Low and high side pressures and power will not change.
2. As indoor CFM decreases, a slight increase will occur in indoor temperature drop ( $\Delta T$ ). A slight decrease will occur in low and high side pressures and power.

A properly operating unit should be within plus or minus **3 degrees** of the typical ( $\Delta T$ ) value shown.

A properly operating unit should be within plus or minus **7 PSIG** of the **head pressure** shown.

A properly operating unit should be within plus or minus **3 PSIG** of the **suction pressure** shown.

A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.



**TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.**



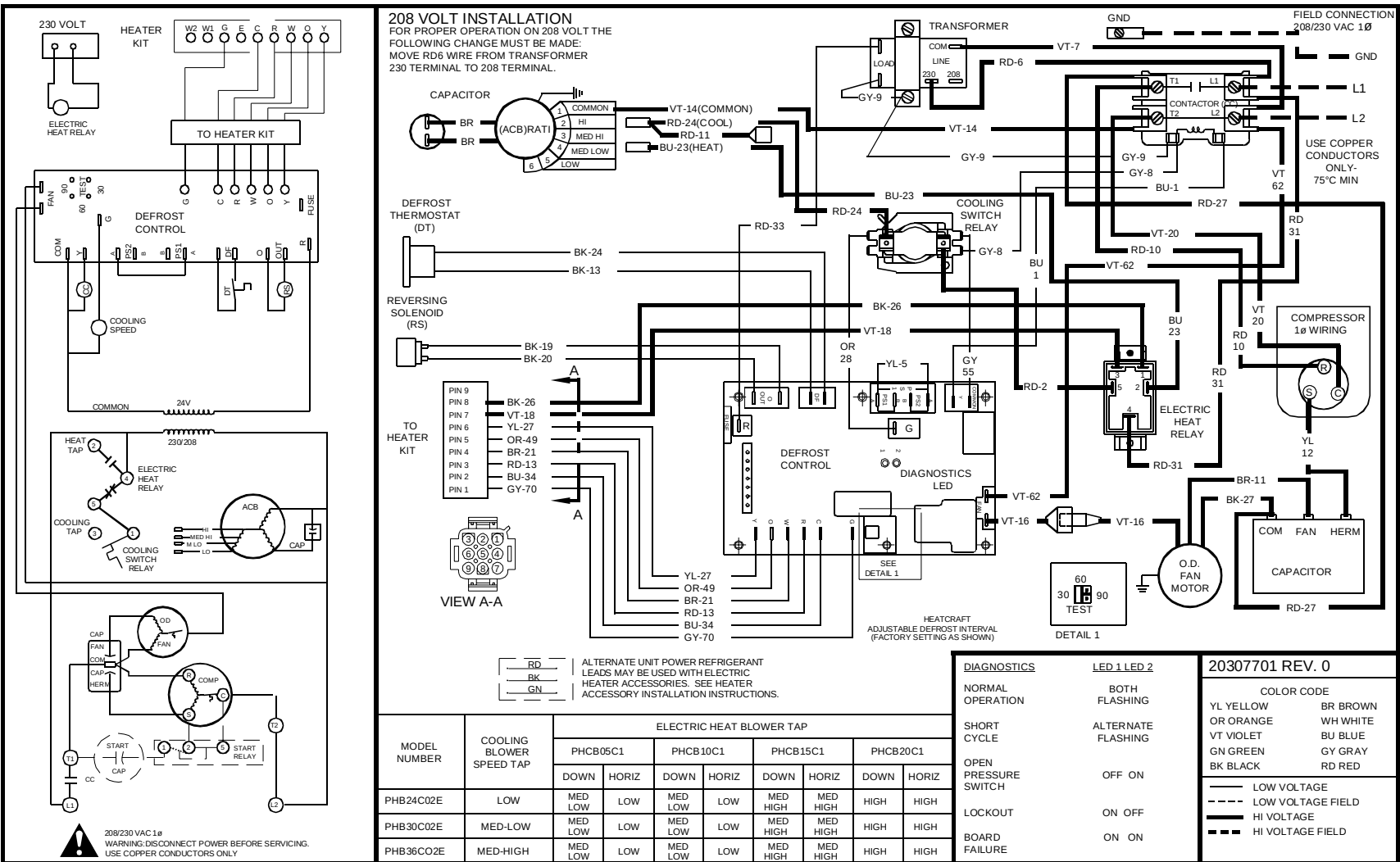
# WIRING DIAGRAMS

PHB24-36C02E (Manufacturing Numbers P1220101-03C)



**WARNING**

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

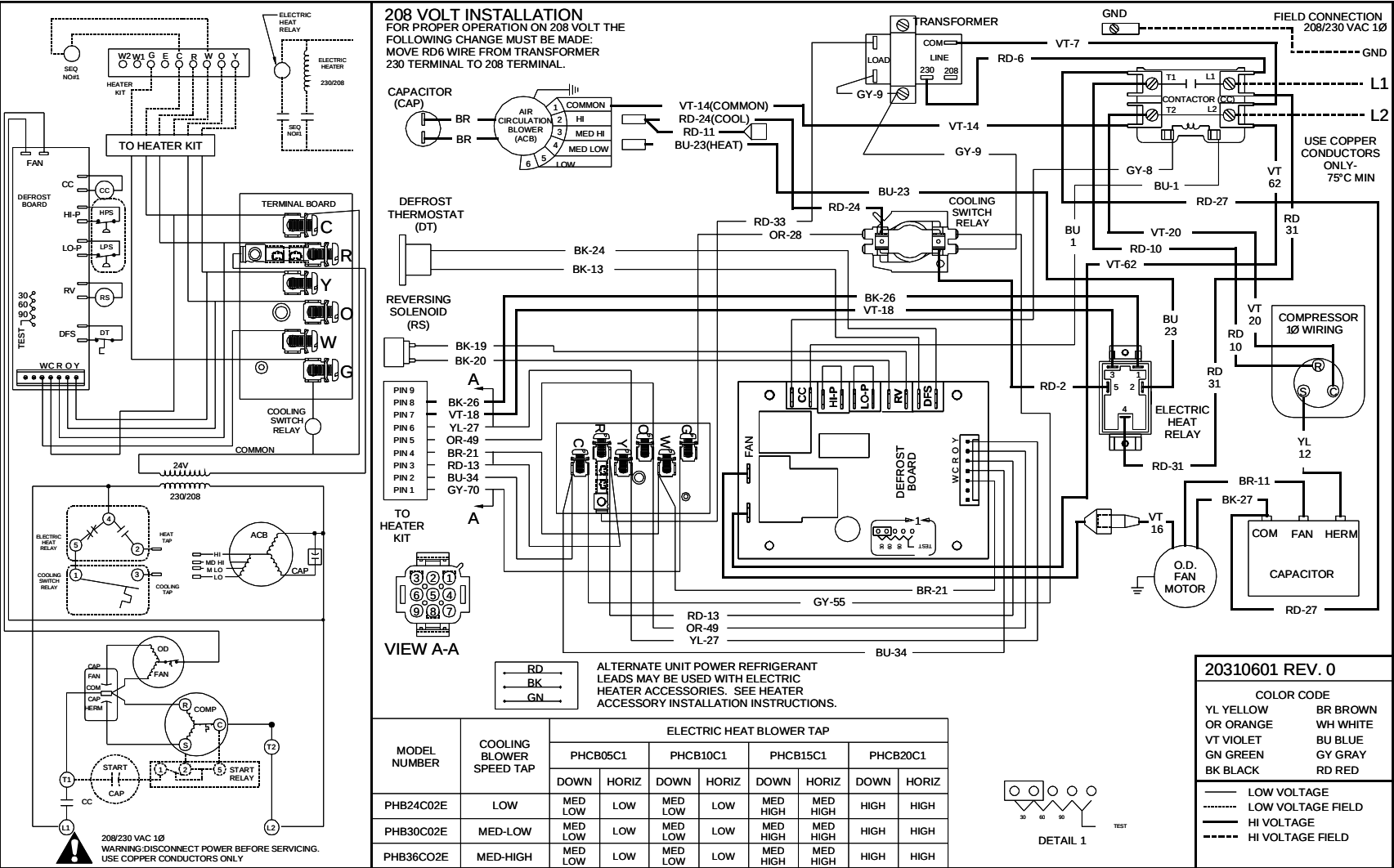
# WIRING DIAGRAMS

PHB24-36C02E (Manufacturing Numbers P1235601-03C)  
PHB24-36C02E1 (Manufacturing Numbers P1239207-09C)



**WARNING**

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

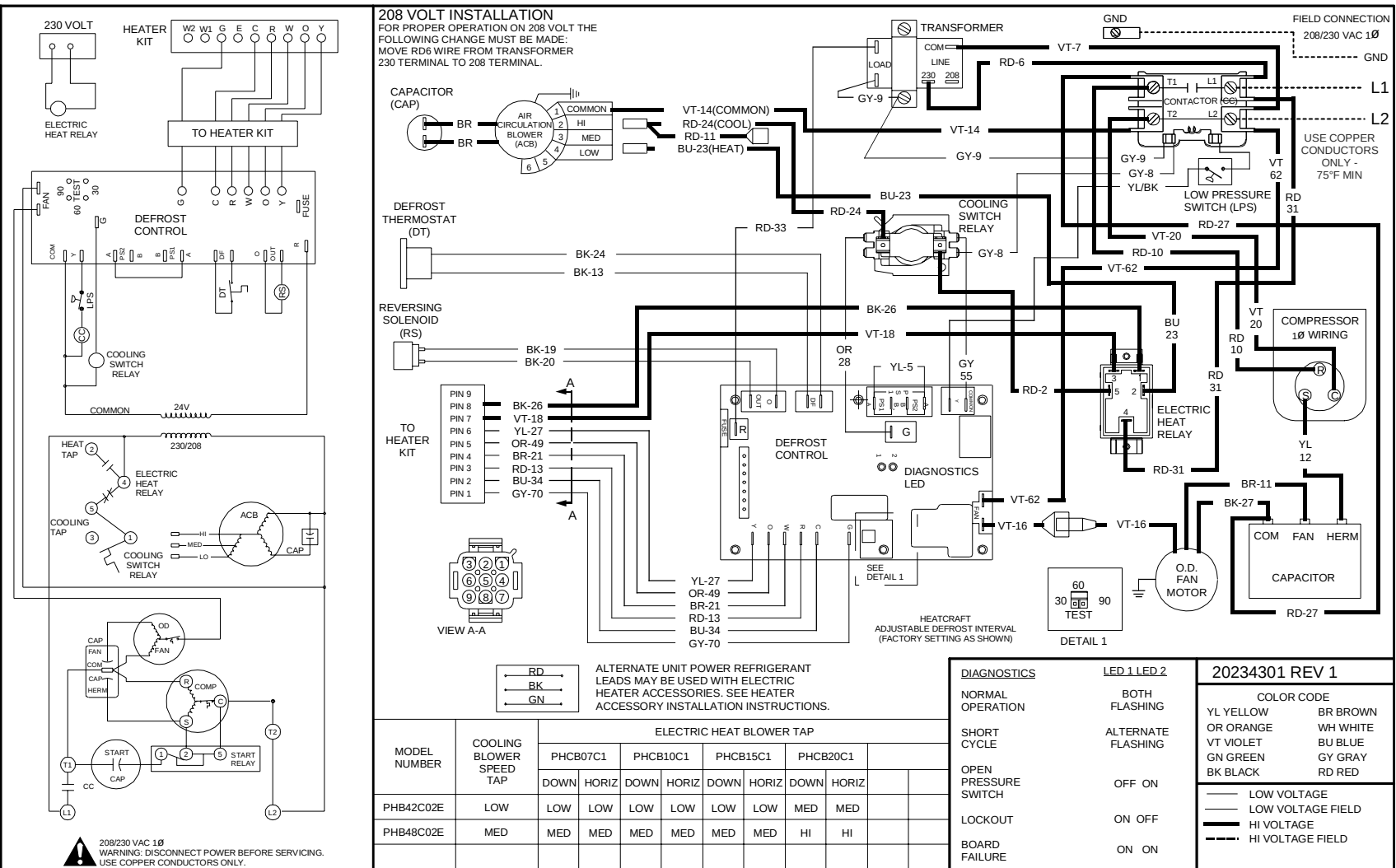
# WIRING DIAGRAMS

PHB42-48C02E (Manufacturing Numbers P1220104-05C)



**WARNING**

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

# WIRING DIAGRAMS

PHB42-48C02E (Manufacturing Numbers P1220104-05C)

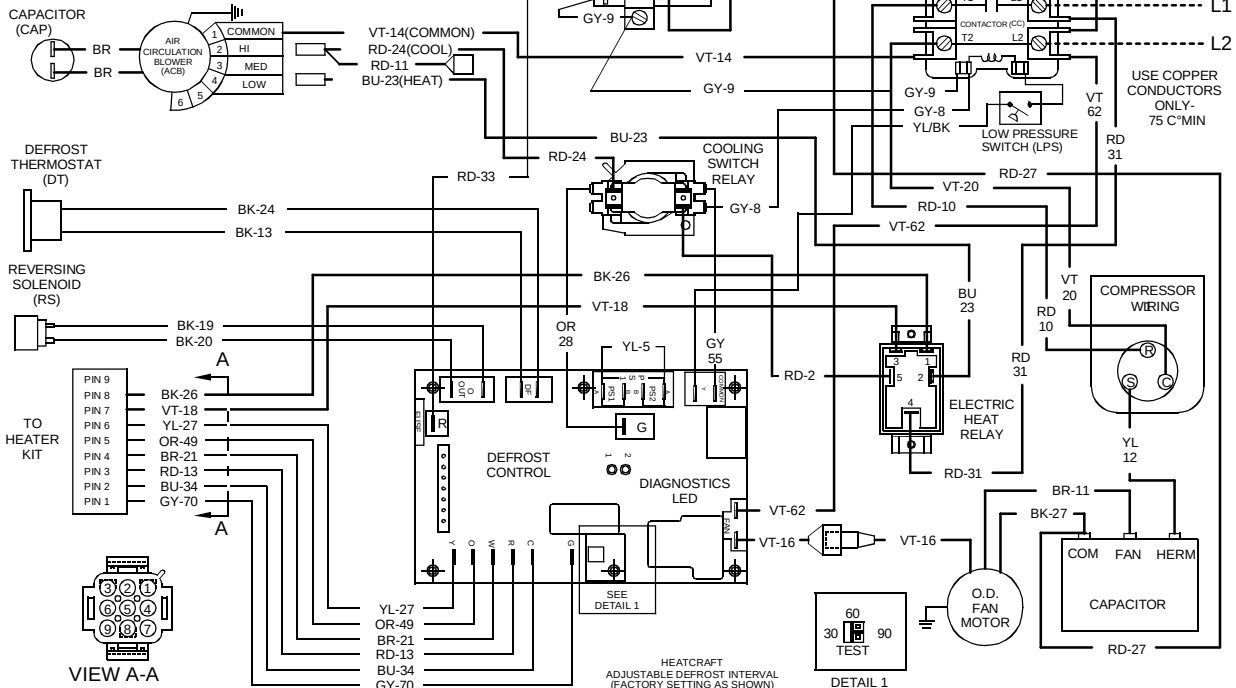


**WARNING**

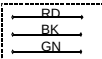
**TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.**

## 208 VOLT INSTALLATION

FOR PROPER OPERATION ON 208 VOLT THE FOLLOWING CHANGE MUST BE MADE:  
MOVE RD6 WIRE FROM TRANSFORMER 230 TERMINAL TO 208 TERMINAL.



VIEW A-A

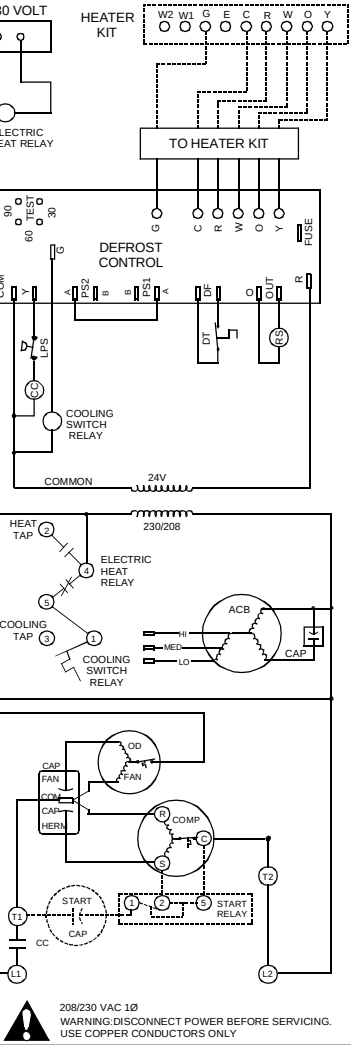


ALTERNATE UNIT POWER REFRIGERANT LEADS MAY BE USED WITH ELECTRIC HEATER ACCESSORIES. SEE HEATER ACCESSORY INSTALLATION INSTRUCTIONS.

| MODEL NUMBER | COOLING BLOWER SPEED TAP | ELECTRIC HEAT BLOWER TAP |       |          |       |          |       |          |       |
|--------------|--------------------------|--------------------------|-------|----------|-------|----------|-------|----------|-------|
|              |                          | PHCB07C1                 |       | PHCB10C1 |       | PHCB15C1 |       | PHCB20C1 |       |
|              |                          | DOWN                     | HORIZ | DOWN     | HORIZ | DOWN     | HORIZ | DOWN     | HORIZ |
| PHB42C02E    | LOW                      | LOW                      | LOW   | LOW      | LOW   | LOW      | LOW   | MED      | MED   |
| PHB48C02E    | MED                      | MED                      | MED   | MED      | MED   | MED      | MED   | HI       | HI    |

| DIAGNOSTICS          |                    |
|----------------------|--------------------|
| NORMAL OPERATION     | BOTH FLASHING      |
| SHORT CYCLE          | ALTERNATE FLASHING |
| OPEN PRESSURE SWITCH | OFF ON             |
| LOCKOUT              | ON OFF             |
| BOARD FAILURE        | ON ON              |

| 20308101 REV 0          |          |
|-------------------------|----------|
| COLOR CODE              |          |
| YL YELLOW               | BR BROWN |
| OR ORANGE               | WH WHITE |
| VT VIOLET               | BU BLUE  |
| GN GREEN                | GY GRAY  |
| BK BLACK                | RD RED   |
| — LOW VOLTAGE           |          |
| - - - LOW VOLTAGE FIELD |          |
| — HI VOLTAGE            |          |
| - - - HI VOLTAGE FIELD  |          |



208/230 VAC 1Ø  
WARNING: DISCONNECT POWER BEFORE SERVICING.  
USE COPPER CONDUCTORS ONLY

Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

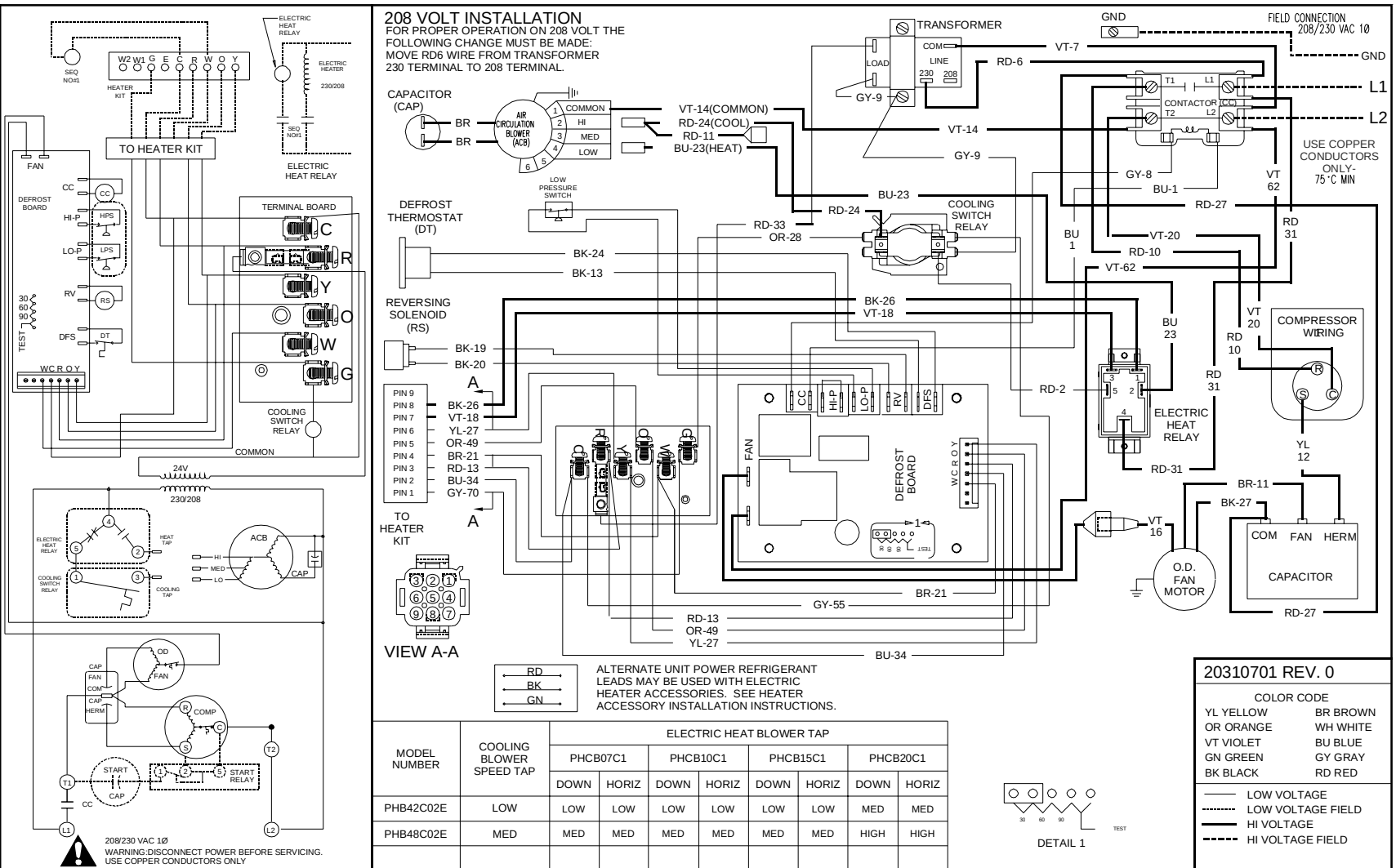
# WIRING DIAGRAMS

PHB42-48C02E (Manufacturing Numbers P1235604-05C)  
PHB42-48C02E1 (Manufacturing Numbers P1239210-11C)



**WARNING**

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

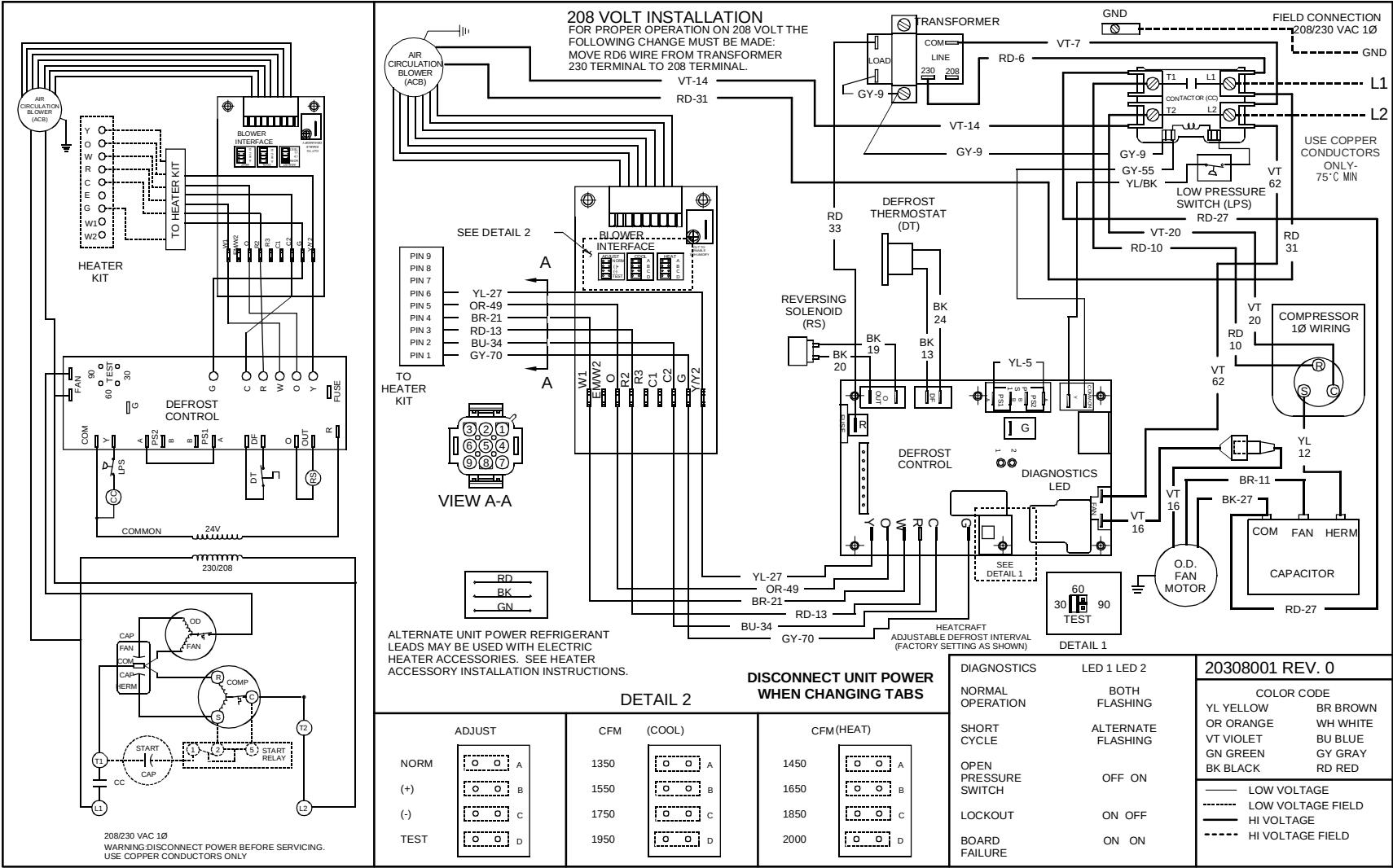
# WIRING DIAGRAMS

PHB60C02E (Manufacturing Number P1220106C)



**WARNING**

**TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.**



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

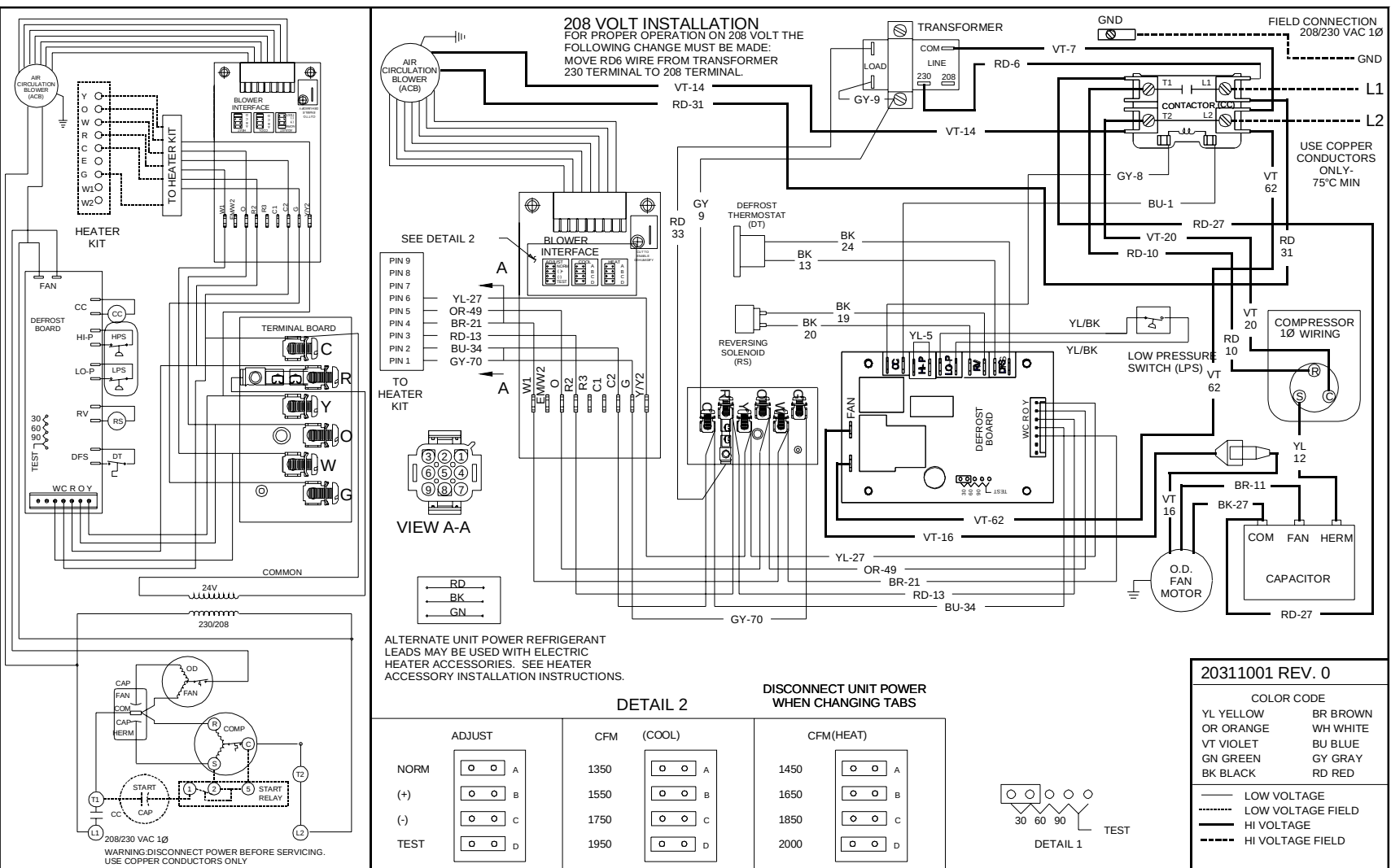
# WIRING DIAGRAMS

PHB60C02E (Manufacturing Numbers P1235606C)  
PHB60C02E1 (Manufacturing Number P1239212C)



**WARNING**

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

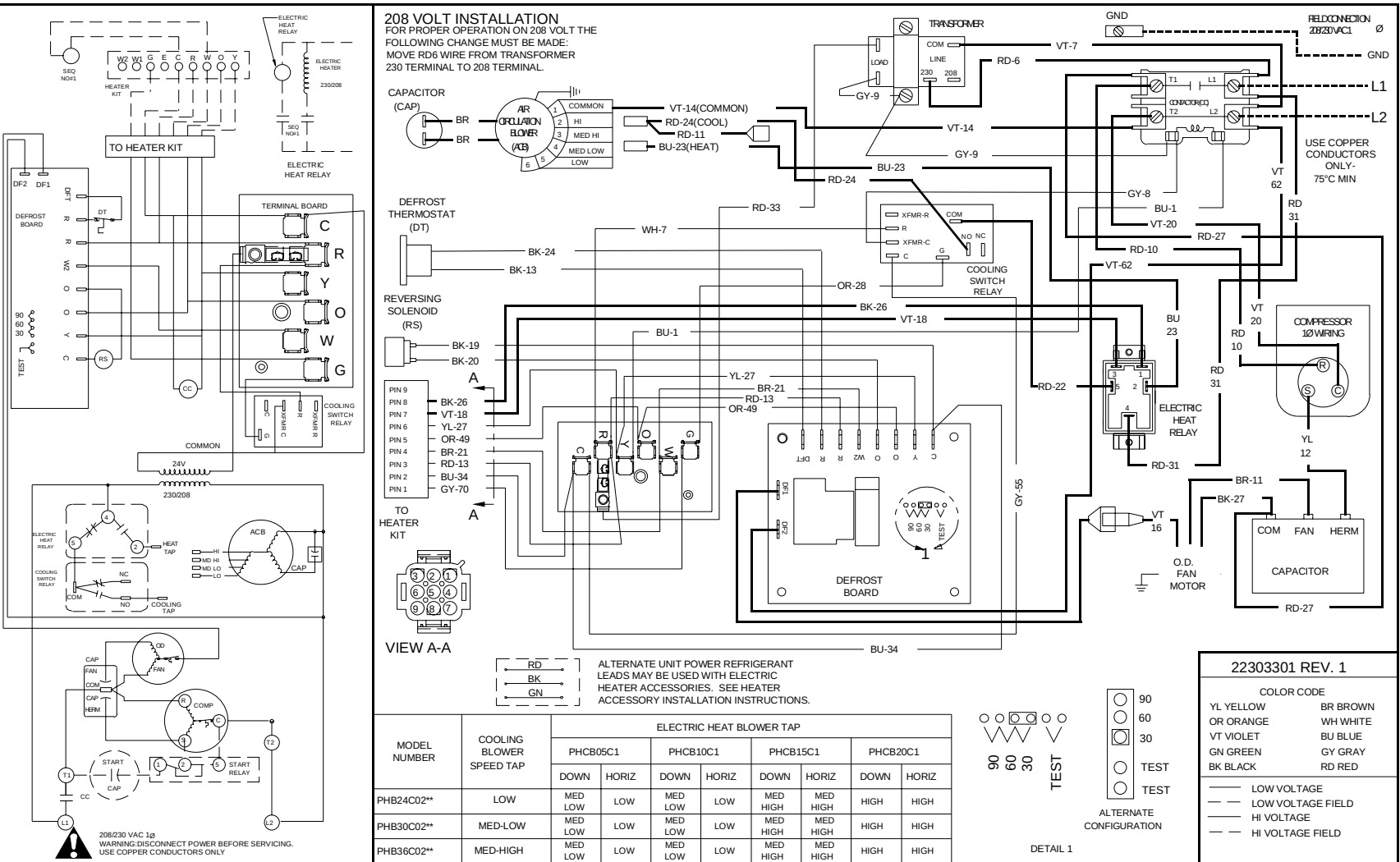
# WIRING DIAGRAMS

PHB24-36C02E1(Manufacturing Number P1239214-16C)  
PHB24-36C02F1(Manufacturing Number P1239220-22C)



**WARNING**

**TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.**



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

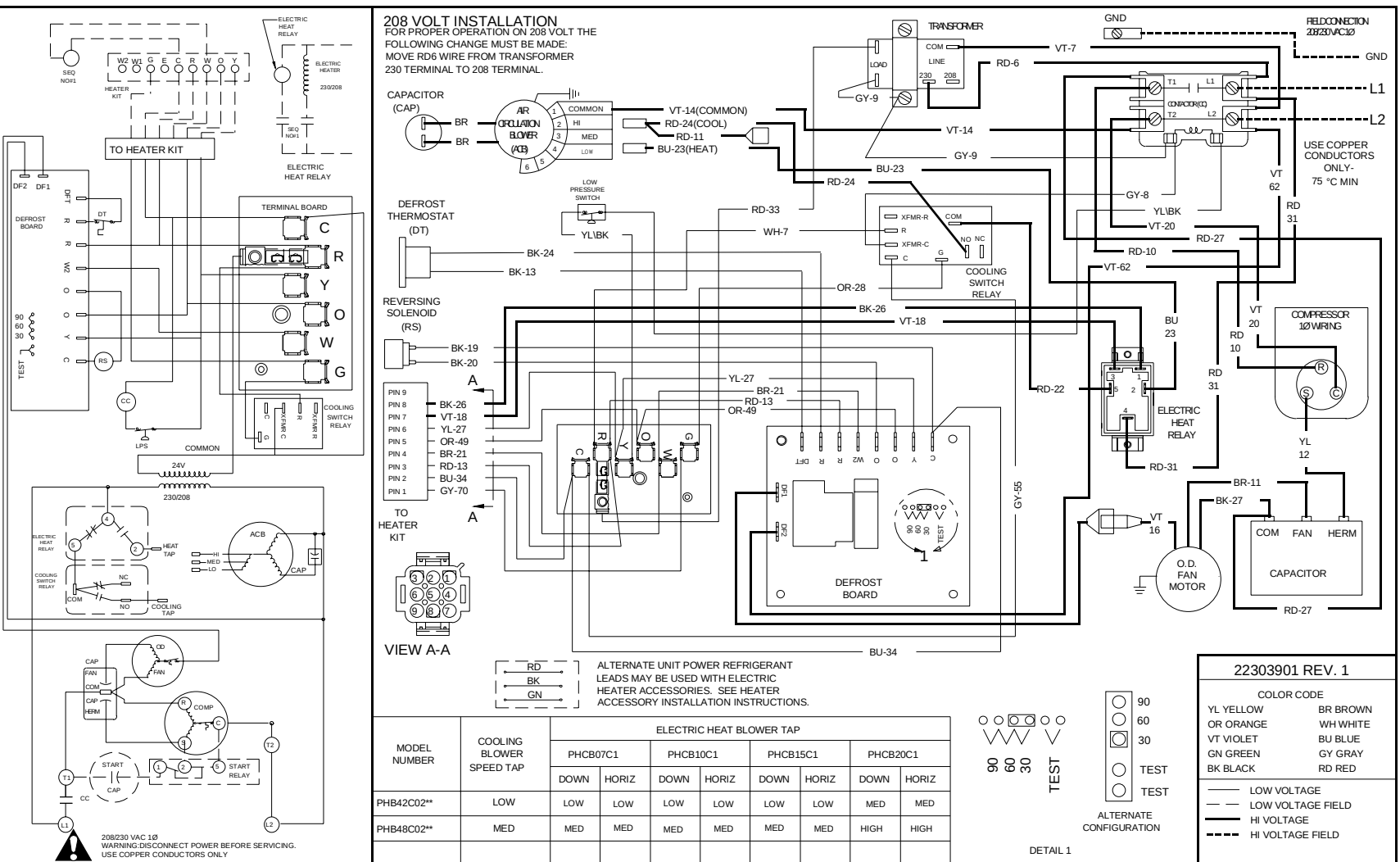
# WIRING DIAGRAMS

PHB42-48C02E1(Manufacturing Number P1239217-18C)  
PHB42-48C02F1(Manufacturing Number P1239223-24C)



**WARNING**

TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.



Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

# WIRING DIAGRAMS

PHB60C02E1 (Manufacturing Number P1239219)  
PHB60C02F1 (Manufacturing Number P1239225)



**WARNING**

**TO AVOID PERSONAL INJURY OR DEATH DUE TO ELECTRICAL SHOCK, DISCONNECT THE POWER BEFORE SERVICING.**

