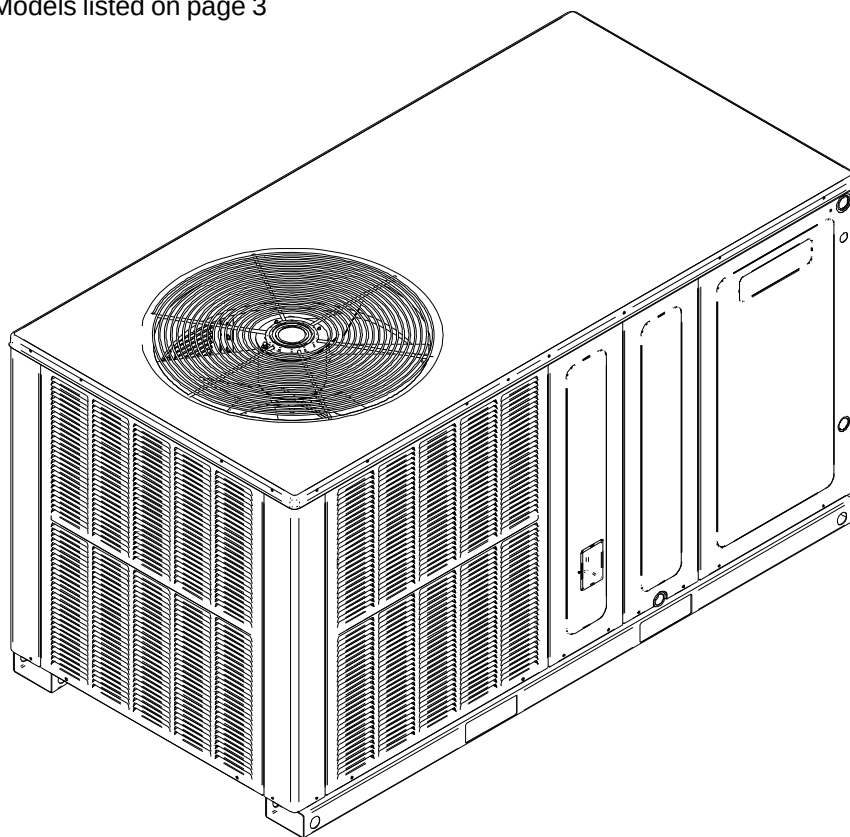




# TECHNICAL MANUAL

## GPH 13 H SERIES HORIZONTAL Package Heat Pump Units with R-410A

- Refer to Service Manual RS6300011 (Horizontal) 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.
- Models listed on page 3



The models contained in this tech manual are for AB and BB revision levels and up.

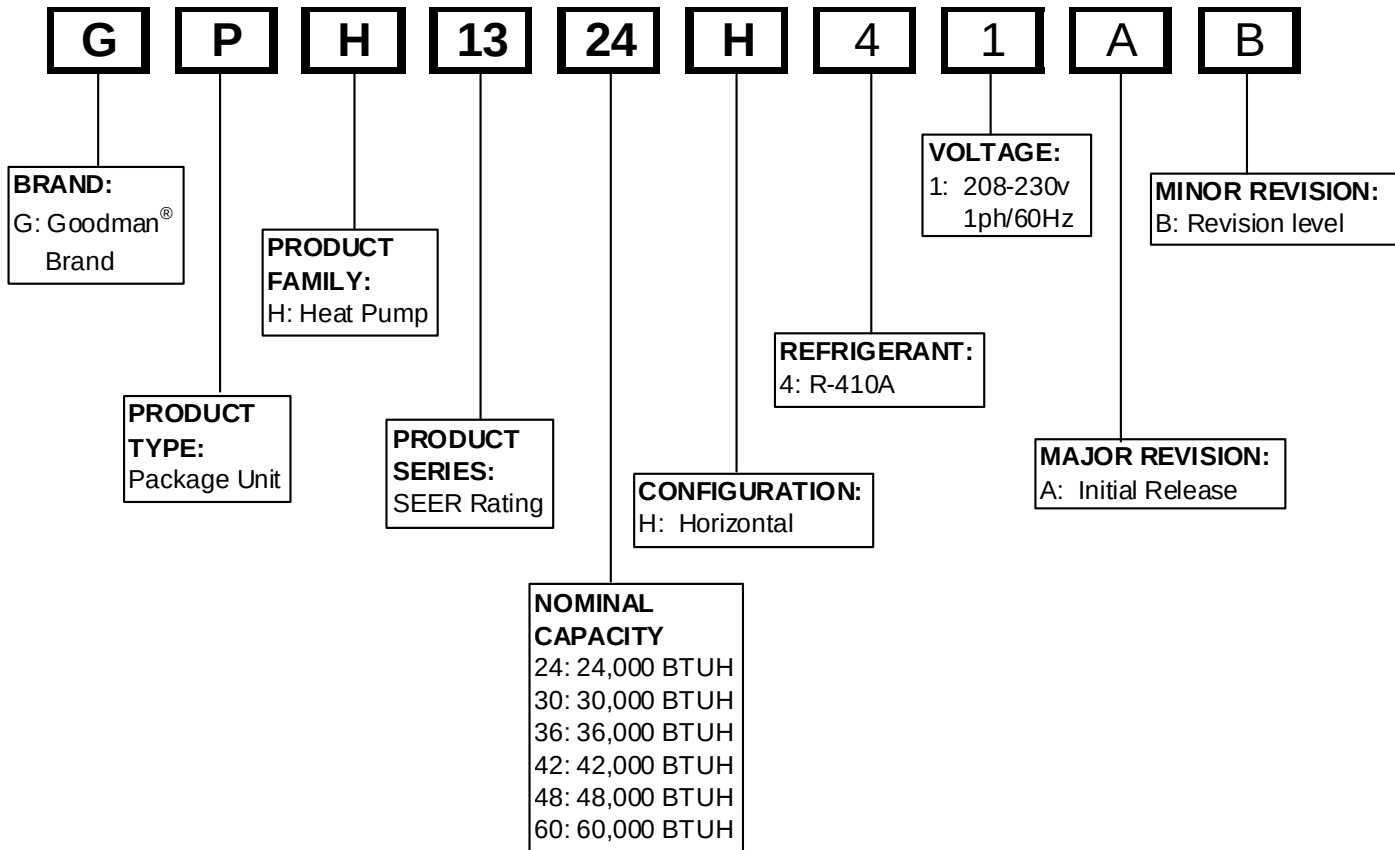
*AA revision level models can be found in RT6332007\*.*

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

RT6332011r8  
December 2012

# PRODUCT IDENTIFICATION

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

### HIGH VOLTAGE!

Disconnect ALL power before servicing or installing this unit. Multiple power sources may be present. Failure to do so may cause property damage, personal injury or death.



## WARNING

Goodman will not be responsible for any injury or property damage arising from improper service or service procedures. If you install or perform service on this unit, you assume responsibility for any personal injury or property damage which may result. Many jurisdictions require a license to install or service heating and air conditioning equipment.

## WARNING

Installation and repair of this unit should be performed ONLY by individuals meeting (at a minimum) the requirements of an "entry level technician" as specified by the Air-Conditioning, Heating, and Refrigeration Institute (AHRI). Attempting to install or repair this unit without such background may result in product damage, personal injury or death.

# PRODUCT IDENTIFICATION

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.

GPH1324H41A\*/B\*

GPH1330H41A\*/B\*

GPH1336H41A\*/B\*

GPH1342H41A\*/B\*

GPH1348H41B\*/C\*

GPH1360H41B\*/C\*

GPH1324H41C\*

GPH1330H41C\*

GPH1336H41C\*

GPH1342H41C\*

GPH1348H41D\*

GPH1360H41D\*

The models contained in this tech manual are for AB and BB revision levels and up.

*AA revision level models can be found in RT6332007\*.*



## WARNING

The United States Environmental Protection Agency ("EPA") has issued various regulations regarding the introduction and disposal of refrigerants introduced into this unit. Failure to follow these regulations may harm the environment and can lead to the imposition of substantial fines. These regulations may vary by jurisdiction. Should questions arise, contact your local EPA office.



## WARNING

Do not connect or use any device that is not design certified by Goodman for use with this unit. Serious property damage, personal injury, reduced unit performance and/or hazardous conditions may result from the use of such non-approved devices.



## WARNING

To prevent the risk of property damage, personal injury, or death, do not store combustible materials or use gasoline or other flammable liquids or vapors in the vicinity of this appliance.

# PRODUCT DESIGN

GPH Package Units are designed for outdoor installations only in either residential or light commercial applications.

The connecting ductwork (Supply and Return) can only be connected for horizontal airflow.

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 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.

Package Heat Pump models use a combination of restrictor orifices and thermostatic expansion valves for refrigerant flow control.

Some heat pump models also have a suction line accumulator installed between the reversing valve and the compressor. The object of the accumulator is to:

1. Provide a liquid refrigerant storage vessel during prolonged system off cycles.
2. Store excess liquid refrigerant not needed by the system while running.
3. Return oil and saturated vapor to the compressor at a controlled rate.
4. Retain stored excess refrigerant during a sudden system pressure fluctuation such as seen in defrost cycles.

Refrigerant flow control is achieved by use of restrictor orifices. GPH units use the FasTest Access Fitting System, with a saddle that is either soldered to the suction and liquid lines or is fastened with a locking nut to the access fitting box (core) and then screwed into the saddle. **NOTE: The core must not be removed from the saddle until the refrigerant charge has been removed. Failure to do so could result in property damage or personal injury.**

The single phase units use permanent split capacitor (PSC) design compressors. Starting components are not required for these units. 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. GPH1360H41\* units have EEM indoor blower motors that are energized by a 24V signal from the IBR and are constant torque motors with very low power consumption. The EEM features an integral control module.

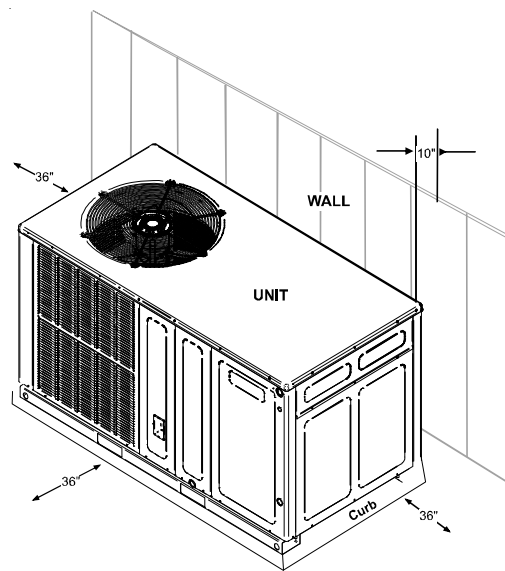
Air for condensing (cooling cycle) or evaporation (heating cycle) is drawn through the outdoor coil by a propeller fan, and is discharged vertically out the top of the unit. The outdoor coil is designed for .0 static. No additional restriction (ductwork) shall be applied.

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

Package Heat Pump indoor sections are designed to accept optional components such as auxiliary electric heaters and circuit breakers. Provisions for these components have been made at time of manufacture.

## Location and Clearances

**NOTE:** To ensure proper condensate drainage, unit must be installed in a level position.

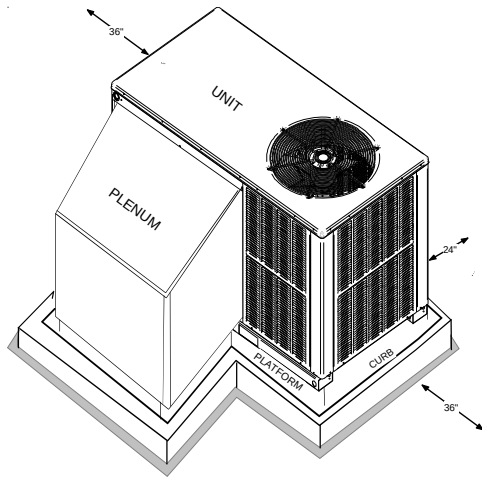


## Outside Slab Installation - Horizontal (H)

**NOTE:** Roof overhang should be no more than 36" and provisions made to deflect the warm discharge air out from the overhang.

Minimum clearances are required to avoid air recirculation and keep the unit operating at peak efficiency.

# PRODUCT DESIGN



## Rooftop Installation - Horizontal (H)

**NOTE:** To ensure proper condensate drainage, unit must be installed in a level position.

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.

### **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.

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

# PRODUCT DESIGN

# GPH1324-1360H41\*\*

## ELECTRICAL DATA (\*Blower Only, Heat Mode)

| Model and Heat Kit Usage | Circuit #1                             |                                                     | Circuit #2                             |                                                     | Actual kW & BTU at 240V |
|--------------------------|----------------------------------------|-----------------------------------------------------|----------------------------------------|-----------------------------------------------------|-------------------------|
|                          | Minimum Circuit Ampacity at 208 / 240V | Maximum Overcurrent Protection (amps) at 208 / 240V | Minimum Circuit Ampacity at 208 / 240V | Maximum Overcurrent Protection (amps) at 208 / 240V |                         |
| <b>GPH1324H41**</b>      |                                        |                                                     |                                        |                                                     |                         |
| HKR05*,C*                | 24 / 27                                | 30 / 30                                             | ---                                    | ---                                                 | 4.75 / 16,200           |
| HKR08*,C*                | 33 / 28                                | 40 / 40                                             | ---                                    | ---                                                 | 7.00 / 23,800           |
| HKR10*,C*                | 45 / 51                                | 60 / 60                                             | ---                                    | ---                                                 | 9.50 / 32,400           |
| <b>GPH1330H41**</b>      |                                        |                                                     |                                        |                                                     |                         |
| HKR05*,C*                | 24 / 27                                | 30 / 30                                             | ---                                    | ---                                                 | 4.75 / 16,200           |
| HKR08*,C*                | 34 / 39                                | 40 / 40                                             | ---                                    | ---                                                 | 7.00 / 23,800           |
| HKR10*,C*                | 45 / 52                                | 60 / 60                                             | ---                                    | ---                                                 | 9.50 / 32,400           |
| HKR/P15*,C*              | 45 / 52                                | 60 / 60                                             | 22 / 25                                | 30 / 30                                             | 14.25 / 48,600          |
| <b>GPH1336H41**</b>      |                                        |                                                     |                                        |                                                     |                         |
| HKR05*,C*                | 24 / 27                                | 30 / 30                                             | ---                                    | ---                                                 | 4.75 / 16,200           |
| HKR08*,C*                | 34 / 39                                | 40 / 40                                             | ---                                    | ---                                                 | 7.00 / 23,800           |
| HKR10*,C*                | 45 / 52                                | 60 / 60                                             | ---                                    | ---                                                 | 9.50 / 32,400           |
| HKR/P15*,C*              | 45 / 52                                | 60 / 60                                             | 22 / 25                                | 30 / 30                                             | 14.25 / 48,600          |
| <b>GPH1342H41**</b>      |                                        |                                                     |                                        |                                                     |                         |
| HKR05*,C*                | 25 / 27                                | 30 / 30                                             | ---                                    | ---                                                 | 4.75 / 16,200           |
| HKR08*,C*                | 34 / 39                                | 40 / 40                                             | ---                                    | ---                                                 | 7.00 / 23,800           |
| HKR10*,C*                | 46 / 52                                | 60 / 60                                             | ---                                    | ---                                                 | 9.50 / 32,400           |
| HKR/P15*,C*              | 46 / 52                                | 60 / 60                                             | 22 / 25                                | 30 / 30                                             | 14.25 / 48,600          |
| HKR/P20*,C*              | 46 / 52                                | 60 / 60                                             | 43 / 49                                | 60 / 60                                             | 19.50 / 66,500          |
| <b>GPH1348H41**</b>      |                                        |                                                     |                                        |                                                     |                         |
| HKR05*,C*                | 25 / 28                                | 30 / 30                                             | ---                                    | ---                                                 | 4.75 / 16,200           |
| HKR08*,C*                | 34 / 40                                | 40 / 40                                             | ---                                    | ---                                                 | 7.00 / 23,800           |
| HKR10*,C*                | 46 / 53                                | 60 / 60                                             | ---                                    | ---                                                 | 9.50 / 32,400           |
| HKR/P15*,C*              | 46 / 52                                | 60 / 60                                             | 22 / 25                                | 30 / 30                                             | 14.25 / 48,600          |
| HKR/P20*,C*              | 46 / 52                                | 60 / 60                                             | 43 / 49                                | 60 / 60                                             | 19.50 / 66,500          |
| <b>GPH1360H41**</b>      |                                        |                                                     |                                        |                                                     |                         |
| HKR05*,C*                | 26 / 30                                | 30 / 30                                             | ---                                    | ---                                                 | 4.75 / 16,200           |
| HKR08*,C*                | 36 / 40                                | 40 / 40                                             | ---                                    | ---                                                 | 7.00 / 23,800           |
| HKR10*,C*                | 48 / 54                                | 60 / 60                                             | ---                                    | ---                                                 | 9.50 / 32,400           |
| HKR/P15*,C*              | 48 / 54                                | 60 / 60                                             | 22 / 25                                | 30 / 30                                             | 14.25 / 48,600          |
| HKR/P20*,C*              | 48 / 54                                | 60 / 60                                             | 43 / 49                                | 60 / 60                                             | 19.50 / 66,500          |

**IMPORTANT NOTE:** A separate power supply is required for the HKR heater kit.

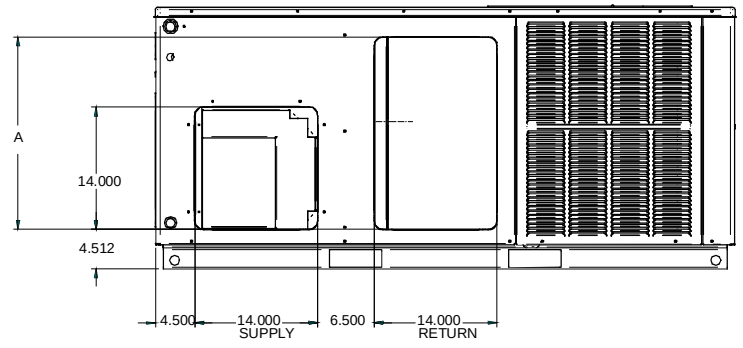
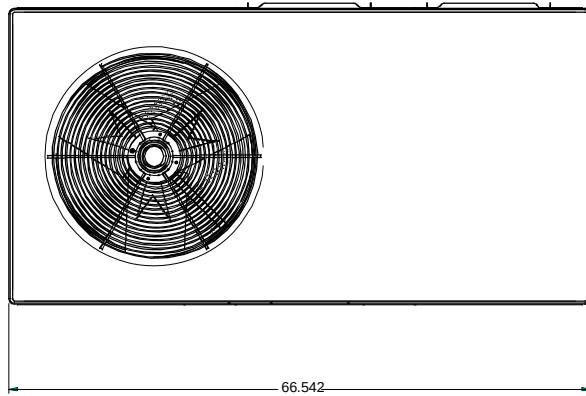


### WARNING

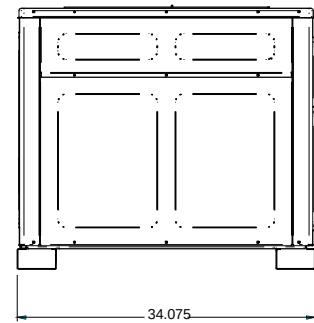
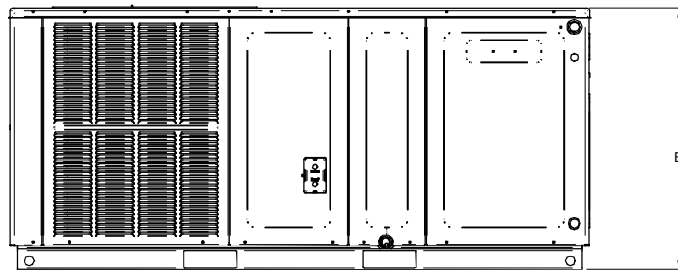
All wires and overcurrent protection devices are sized for use with electric heaters only and without refrigeration. If heaters are not installed with above wire size, overheating and fire could occur. See PACKAGE COOLING SPECIFICATIONS section for minimum circuit ampacity and maximum overcurrent protection during refrigeration cycle.

# PRODUCT DIMENSIONS

## GPH13[24-60]H41\*\*



BACK VIEW  
(DUCT OPENINGS)



| Chassis | Model        | A      | B      |
|---------|--------------|--------|--------|
| Small   | GPH1324H41** | 22.000 | 29.932 |
|         | GPH1330H41** | 22.000 | 29.932 |
| Medium  | GPH1336H41** | 24.000 | 34.932 |
|         | GPH1342H41** | 24.000 | 34.932 |
| Large   | GPH1348H41** | 24.000 | 38.682 |
|         | GPH1360H41** | 24.000 | 38.682 |

# PACKAGE HEAT PUMP SPECIFICATIONS    GPH13[24-36]H41C\*

|                                     |                                             | GPH1324H41C*            | GPH1330H41C*            | GPH1336H41C*            |
|-------------------------------------|---------------------------------------------|-------------------------|-------------------------|-------------------------|
| COOLING<br>CAPACITY                 | COOLING CAPACITY, BTUH                      | 24,000                  | 28,000                  | 35,000                  |
|                                     | SEER                                        | 13.00                   | 13.00                   | 13.00                   |
| HEATING<br>RATING                   | 47°/43°F                                    | 22,000                  | 27,000                  | 33,600                  |
|                                     | 35°/33°F                                    | 17,600                  | 20,400                  | 27,000                  |
|                                     | 17°/15°F                                    | 14,000                  | 15,000                  | 18,000                  |
|                                     | HSPF                                        | 7.7                     | 7.7                     | 7.7                     |
| UNIT<br>ELECTRICAL<br>SPECIFICATION | VOLTAGE (NAMEPLATE)                         | 208/230-60-1            | 208/230-60-1            | 208/230-60-1            |
|                                     | AMPS                                        | 15.4                    | 17.06                   | 20.06                   |
|                                     | MIN CIRCUIT AMPACITY                        | 18.6                    | 20.6                    | 24.2                    |
|                                     | MAX OVERCURRENT PROTECTION <sup>(2)</sup>   | 30                      | 30                      | 40                      |
| COMPRESSOR                          | TYPE                                        | SCROLL                  | SCROLL                  | SCROLL                  |
|                                     | RATED LOAD AMPS                             | 12.8                    | 14.1                    | 16.7                    |
|                                     | LOCKED ROTOR AMPS                           | 58.3                    | 73.0                    | 79.0                    |
| CONDENSER<br>FAN MOTOR              | HORSEPOWER                                  | 1/6                     | 1/6                     | 1/4                     |
|                                     | RPM                                         | 815                     | 815                     | 830                     |
|                                     | FULL LOAD AMPS                              | 1.1                     | 1.1                     | 1.5                     |
|                                     | LOCKED ROTOR AMPS                           | 1.7                     | 1.7                     | 3.0                     |
| CONDENSER FAN                       | BLADE DIAMETER (INCHES) / # OF BLADES       | 22 / 3                  | 22 / 3                  | 22 / 4                  |
| CONDENSER<br>COIL                   | FACE AREA (SQ. FT.)                         | 13.4                    | 13.4                    | 17                      |
|                                     | NUMBER OF ROWS                              | 1                       | 1                       | 1                       |
|                                     | FINS PER INCH                               | 24                      | 24                      | 24                      |
| EVAPORATOR<br>BLOWER<br>MOTOR       | HORSEPOWER - NO. OF SPEEDS                  | 1/4 - 3                 | 1/3 - 3                 | 1/3 - 3                 |
|                                     | FULL LOAD AMPS                              | 1.50                    | 1.86                    | 1.86                    |
|                                     | LOCKED ROTOR AMPS                           | 2.2                     | 3.2                     | 3.2                     |
|                                     | MOTOR SPEED TAP - COOLING                   | MEDIUM                  | LOW                     | MEDIUM                  |
|                                     | RPM                                         | 1,075                   | 1,075                   | 1,075                   |
| EVAPORATOR<br>BLOWER                | DIAMETER X WIDTH (INCHES)                   | 9 x 6                   | 9 x 6                   | 9 x 8                   |
|                                     | RATED SCFM COOLING                          | 875                     | 1,080                   | 1,205                   |
|                                     | MAX EXTERNAL STATIC PRESS ("w.c.)           | 0.5                     | 0.5                     | 0.5                     |
| EVAPORATOR<br>COIL<br>ALUMINUM      | FACE AREA (SQ. FT.)                         | 5.2                     | 5.2                     | 6.2                     |
|                                     | NUMBER OF ROWS                              | 3                       | 3                       | 3                       |
|                                     | FINS PER INCH                               | 14                      | 14                      | 14                      |
| GENERAL<br>INFORMATION              | FILTER SIZE (SQ. FT.)                       | 20 x 20 x 1             | 20 x 25 x 1             | 25 x 25 x 1             |
|                                     | DRAIN SIZE (INCHES)                         | 3/4"                    | 3/4"                    | 3/4"                    |
|                                     | EXPANSION DEVICE (INDOOR / OUTDOOR)         | ORIFICE (0.061 / 0.047) | ORIFICE (0.065 / 0.047) | ORIFICE (0.068 / 0.065) |
|                                     | REFRIGERANT CHARGE R-410A (OZS.)            | 105                     | 105                     | 120                     |
|                                     | POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES) | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           |
|                                     | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)  | 1/2                     | 1/2                     | 1/2                     |
|                                     | LO PRESSURE SWITCH                          |                         |                         |                         |
|                                     | OPENS / CLOSES PSIG                         | 22 / 50                 | 22 / 50                 | 22 / 50                 |
|                                     | HI PRESSURE SWITCH - OPENS PSIG             |                         |                         |                         |
|                                     | OPENS / CLOSES PSIG                         | 660 / 420               | 660 / 420               | 660 / 420               |
|                                     | SHIPPING WEIGHT (LBS.)                      | 325                     | 325                     | 385                     |
|                                     | OPERATING WEIGHT (LBS.)                     | 315                     | 315                     | 375                     |

<sup>(2)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

\* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

**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.



# PACKAGE HEAT PUMP SPECIFICATIONS

**GPH1342H41C\***  
**GPH13[48-60]H41D\***

|                               |                                             | GPH1342H41C*            | GPH1348H41D*            | GPH1360H41D*            |
|-------------------------------|---------------------------------------------|-------------------------|-------------------------|-------------------------|
| COOLING CAPACITY              | COOLING CAPACITY, BTUH                      | 40,500                  | 46,000                  | 57,500                  |
|                               | SEER                                        | 13.00                   | 13.00                   | 13.00                   |
| HEATING RATING                | 47°/43°F                                    | 38,000                  | 44,500                  | 54,400                  |
|                               | 35°/33°F                                    | 30,000                  | 33,000                  | 39,000                  |
|                               | 17°/15°F                                    | 21,800                  | 26,000                  | 32,000                  |
|                               | HSPF                                        | 7.8                     | 7.7                     | 7.7                     |
| UNIT ELECTRICAL SPECIFICATION | VOLTAGE (NAMEPLATE)                         | 208/230-60-1            | 208/230-60-1            | 208/230-60-1            |
|                               | AMPS                                        | 22.2                    | 24.17                   | 33.6                    |
|                               | MIN CIRCUIT AMPACITY                        | 26.6                    | 29.2                    | 40.2                    |
|                               | MAX OVERCURRENT PROTECTION <sup>(2)</sup>   | 40                      | 45                      | 60                      |
| COMPRESSOR                    | TYPE                                        | SCROLL                  | SCROLL                  | SCROLL                  |
|                               | RATED LOAD AMPS                             | 17.9                    | 19.9                    | 26.4                    |
|                               | LOCKED ROTOR AMPS                           | 112                     | 109                     | 134                     |
| CONDENSER FAN MOTOR           | HORSEPOWER                                  | 1/6                     | 1/6                     | 1/4                     |
|                               | RPM                                         | 1075                    | 1075                    | 1075                    |
|                               | FULL LOAD AMPS                              | 1.4                     | 1.4                     | 1.4                     |
|                               | LOCKED ROTOR AMPS                           | 2.9                     | 2.9                     | 2.9                     |
| CONDENSER FAN                 | BLADE DIAMETER (INCHES) / # OF BLADES       | 22 / 4                  | 22 / 4                  | 22 / 4                  |
| CONDENSER COIL                | FACE AREA (SQ. FT.)                         | 17                      | 19.1                    | 19.1                    |
|                               | NUMBER OF ROWS                              | 1                       | 2                       | 2                       |
|                               | FINS PER INCH                               | 24                      | 16                      | 16                      |
| EVAPORATOR BLOWER MOTOR       | HORSEPOWER - NO. OF SPEEDS                  | 1/2 - 3                 | 1/2 - 3                 | 3/4 - 3                 |
|                               | FULL LOAD AMPS                              | 2.87                    | 2.87                    | 5.8                     |
|                               | LOCKED ROTOR AMPS                           | 4.9                     | 4.9                     | 8.0                     |
|                               | MOTOR SPEED TAP - COOLING                   | MEDIUM                  | HIGH                    | MEDIUM                  |
|                               | RPM                                         | 1,075                   | 1,075                   | 1,075                   |
| EVAPORATOR BLOWER             | DIAMETER X WIDTH (INCHES)                   | 10 x 8                  | 10 x 8                  | 11 x 8                  |
|                               | RATED SCFM COOLING                          | 1,410                   | 1,585                   | 1,850                   |
|                               | MAX EXTERNAL STATIC PRESS ("w.c.)           | 0.5                     | 0.5                     | 0.5                     |
| EVAPORATOR COIL ALUMINUM      | FACE AREA (SQ. FT.)                         | 6.2                     | 6.2                     | 7.0                     |
|                               | NUMBER OF ROWS                              | 4                       | 4                       | 4                       |
|                               | FINS PER INCH                               | 14                      | 14                      | 14                      |
| GENERAL INFORMATION           | FILTER SIZE (SQ. FT.)                       | (2) 20 x 20 x 1         | (2) 20 x 20 x 1         | (2) 20 x 25 x 1         |
|                               | DRAIN SIZE (INCHES)                         | 3/4"                    | 3/4"                    | 3/4"                    |
|                               | EXPANSION DEVICE (INDOOR / OUTDOOR)         | ORIFICE (0.074 / 0.065) | ORIFICE (0.078 / 0.063) | ORIFICE (0.086 / 0.072) |
|                               | REFRIGERANT CHARGE R-410A (OZS.)            | 140                     | 170                     | 170                     |
|                               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES) | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           |
|                               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)  | 1/2                     | 1/2                     | 1/2                     |
|                               | PRESSURE SWITCH - OPENS / CLOSES PSIG       | 7 / 25                  | 7 / 25                  | 7 / 25                  |
|                               | LO PRESSURE SWITCH OPENS / CLOSES PSIG      | 22 / 50                 | 22 / 50                 | 22 / 50                 |
|                               | HI PRESSURE SWITCH - OPENS PSIG             |                         |                         |                         |
|                               | OPENS / CLOSES PSIG                         | 660 / 420               | 660 / 420               | 660 / 420               |
|                               | SHIPPING WEIGHT (LBS.)                      | 385                     | 415                     | 415                     |
|                               | OPERATING WEIGHT (LBS.)                     | 375                     | 405                     | 405                     |

<sup>(2)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

\* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

**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.

# PACKAGE HEAT PUMP SPECIFICATIONS GPH13[24-36]H41A\*

|                               |                                             | GPH1324H41**            | GPH1330H41**            | GPH1336H41**            |
|-------------------------------|---------------------------------------------|-------------------------|-------------------------|-------------------------|
| COOLING CAPACITY              | COOLING CAPACITY, BTUH                      | 24,000                  | 28,000                  | 35,000                  |
|                               | SEER                                        | 13.00                   | 13.00                   | 13.00                   |
| HEATING RATING                | 47°/43°F                                    | 22,000                  | 27,000                  | 33,600                  |
|                               | 35°/33°F                                    | 17,600                  | 20,400                  | 27,000                  |
|                               | 17°/15°F                                    | 14,000                  | 15,000                  | 18,000                  |
|                               | HSPF                                        | 7.7                     | 7.7                     | 7.7                     |
| UNIT ELECTRICAL SPECIFICATION | VOLTAGE (NAMEPLATE)                         | 208/230-60-1            | 208/230-60-1            | 208/230-60-1            |
|                               | AMPS                                        | 15.4                    | 17.06                   | 20.06                   |
|                               | MIN CIRCUIT AMPACITY                        | 18.6                    | 20.6                    | 24.2                    |
|                               | MAX OVERCURRENT PROTECTION <sup>(2)</sup>   | 30                      | 30                      | 40                      |
| COMPRESSOR                    | TYPE                                        | SCROLL                  | SCROLL                  | SCROLL                  |
|                               | RATED LOAD AMPS                             | 12.8                    | 14.1                    | 16.7                    |
|                               | LOCKED ROTOR AMPS                           | 58.3                    | 73.0                    | 79.0                    |
| CONDENSER FAN MOTOR           | HORSEPOWER                                  | 1/6                     | 1/6                     | 1/4                     |
|                               | RPM                                         | 815                     | 815                     | 830                     |
|                               | FULL LOAD AMPS                              | 1.1                     | 1.1                     | 1.5                     |
|                               | LOCKED ROTOR AMPS                           | 1.7                     | 1.7                     | 3.0                     |
| CONDENSER FAN                 | BLADE DIAMETER (INCHES) / # OF BLADES       | 22 / 3                  | 22 / 3                  | 22 / 4                  |
| CONDENSER COIL                | FACE AREA (SQ. FT.)                         | 13.4                    | 13.4                    | 17                      |
|                               | NUMBER OF ROWS                              | 1                       | 1                       | 1                       |
|                               | FINS PER INCH                               | 24                      | 24                      | 24                      |
| EVAPORATOR BLOWER MOTOR       | HORSEPOWER - NO. OF SPEEDS                  | 1/4 - 3                 | 1/3 - 3                 | 1/3 - 3                 |
|                               | FULL LOAD AMPS                              | 1.50                    | 1.86                    | 1.86                    |
|                               | LOCKED ROTOR AMPS                           | 2.2                     | 3.2                     | 3.2                     |
|                               | MOTOR SPEED TAP - COOLING                   | MEDIUM                  | LOW                     | MEDIUM                  |
|                               | RPM                                         | 1,075                   | 1,075                   | 1,075                   |
| EVAPORATOR BLOWER             | DIAMETER X WIDTH (INCHES)                   | 9 x 6                   | 9 x 6                   | 9 x 8                   |
|                               | RATED SCFM COOLING                          | 875                     | 1,080                   | 1,205                   |
|                               | MAX EXTERNAL STATIC PRESS ("w.c.)           | 0.5                     | 0.5                     | 0.5                     |
| EVAPORATOR COIL               | FACE AREA (SQ. FT.)                         | 4.6                     | 4.6                     | 5.2                     |
|                               | NUMBER OF ROWS                              | 3                       | 3                       | 3                       |
|                               | FINS PER INCH                               | 14                      | 14                      | 14                      |
| GENERAL INFORMATION           | FILTER SIZE (SQ. FT.)                       | 20 x 20 x 1             | 20 x 25 x 1             | 25 x 25 x 1             |
|                               | DRAIN SIZE (INCHES)                         | 3/4"                    | 3/4"                    | 3/4"                    |
|                               | EXPANSION DEVICE (INDOOR / OUTDOOR)         | ORIFICE (0.057 / 0.049) | ORIFICE (0.065 / 0.055) | ORIFICE (0.068 / 0.065) |
|                               | REFRIGERANT CHARGE R-410A (OZS.)            | 115                     | 140                     | 125                     |
|                               | POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES) | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           |
|                               | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)  | 1/2                     | 1/2                     | 1/2                     |
|                               | LO PRESSURE SWITCH                          |                         |                         |                         |
|                               | OPENS / CLOSES PSIG                         | 22 / 50                 | 22 / 50                 | 22 / 50                 |
|                               | HI PRESSURE SWITCH - OPENS PSIG             |                         |                         |                         |
|                               | OPENS / CLOSES PSIG                         | 660 / 420               | 660 / 420               | 660 / 420               |
|                               | SHIPPING WEIGHT (LBS.)                      | 325                     | 325                     | 385                     |
|                               | OPERATING WEIGHT (LBS.)                     | 315                     | 315                     | 375                     |

<sup>(2)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

\* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

**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.

# PACKAGE HEAT PUMP SPECIFICATIONS

**GPH1342H41A\***  
**GPH13[48-60]H41B\***

|                                     |                                             | GPH1342H41**            | GPH1348H41**            | GPH1360H41**            |
|-------------------------------------|---------------------------------------------|-------------------------|-------------------------|-------------------------|
| COOLING<br>CAPACITY                 | COOLING CAPACITY, BTUH                      | 40,500                  | 46,000                  | 57,500                  |
|                                     | SEER                                        | 13.00                   | 13.00                   | 13.00                   |
| HEATING<br>RATING                   | 47°/43°F                                    | 38,000                  | 44,500                  | 54,400                  |
|                                     | 35°/33°F                                    | 30,000                  | 33,000                  | 39,000                  |
|                                     | 17°/15°F                                    | 21,800                  | 26,000                  | 32,000                  |
|                                     | HSPF                                        | 7.8                     | 7.7                     | 7.7                     |
| UNIT<br>ELECTRICAL<br>SPECIFICATION | VOLTAGE (NAMEPLATE)                         | 208/230-60-1            | 208/230-60-1            | 208/230-60-1            |
|                                     | AMPS                                        | 22.2                    | 24.17                   | 33.6                    |
|                                     | MIN CIRCUIT AMPACITY                        | 26.6                    | 29.2                    | 40.2                    |
|                                     | MAX OVERCURRENT PROTECTION <sup>(2)</sup>   | 40                      | 45                      | 60                      |
| COMPRESSOR                          | TYPE                                        | SCROLL                  | SCROLL                  | SCROLL                  |
|                                     | RATED LOAD AMPS                             | 17.9                    | 19.9                    | 26.4                    |
|                                     | LOCKED ROTOR AMPS                           | 112                     | 109                     | 134                     |
| CONDENSER<br>FAN MOTOR              | HORSEPOWER                                  | 1/6                     | 1/6                     | 1/4                     |
|                                     | RPM                                         | 1075                    | 1075                    | 1075                    |
|                                     | FULL LOAD AMPS                              | 1.4                     | 1.4                     | 1.4                     |
|                                     | LOCKED ROTOR AMPS                           | 2.9                     | 2.9                     | 2.9                     |
| CONDENSER FAN                       | BLADE DIAMETER (INCHES) / # OF BLADES       | 22 / 4                  | 22 / 4                  | 22 / 4                  |
| CONDENSER<br>COIL                   | FACE AREA (SQ. FT.)                         | 17                      | 19.1                    | 19.1                    |
|                                     | NUMBER OF ROWS                              | 1                       | 2                       | 2                       |
|                                     | FINS PER INCH                               | 24                      | 16                      | 16                      |
| EVAPORATOR<br>BLOWER<br>MOTOR       | HORSEPOWER - NO. OF SPEEDS                  | 1/2 - 3                 | 1/2 - 3                 | 3/4 - 3                 |
|                                     | FULL LOAD AMPS                              | 2.87                    | 2.87                    | 5.8                     |
|                                     | LOCKED ROTOR AMPS                           | 4.9                     | 4.9                     | 8.0                     |
|                                     | MOTOR SPEED TAP - COOLING                   | MEDIUM                  | HIGH                    | MEDIUM                  |
|                                     | RPM                                         | 1,075                   | 1,075                   | 1,075                   |
| EVAPORATOR<br>BLOWER                | DIAMETER X WIDTH (INCHES)                   | 10 x 8                  | 10 x 8                  | 11 x 8                  |
|                                     | RATED SCFM COOLING                          | 1,410                   | 1,585                   | 1,850                   |
|                                     | MAX EXTERNAL STATIC PRESS ("w.c.)           | 0.5                     | 0.5                     | 0.5                     |
| EVAPORATOR<br>COIL                  | FACE AREA (SQ. FT.)                         | 6.2                     | 6.2                     | 7.0                     |
|                                     | NUMBER OF ROWS                              | 4                       | 4                       | 4                       |
|                                     | FINS PER INCH                               | 14                      | 14                      | 14                      |
| GENERAL<br>INFORMATION              | FILTER SIZE (SQ. FT.)                       | (2) 20 x 20 x 1         | (2) 20 x 20 x 1         | (2) 20 x 25 x 1         |
|                                     | DRAIN SIZE (INCHES)                         | 3/4"                    | 3/4"                    | 3/4"                    |
|                                     | EXPANSION DEVICE (INDOOR / OUTDOOR)         | ORIFICE (0.068 / 0.065) | ORIFICE (0.076 / 0.067) | ORIFICE (0.088 / 0.076) |
|                                     | REFRIGERANT CHARGE R-410A (OZS.)            | 140                     | 170                     | 175                     |
|                                     | POWER SUPPLY CONDUIT KNOCKOUT SIZE (INCHES) | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           | 3/4, 1, 1-1/4           |
|                                     | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES)  | 1/2                     | 1/2                     | 1/2                     |
|                                     | PRESSURE SWITCH - OPENS / CLOSES PSIG       | 7 / 25                  | 7 / 25                  | 7 / 25                  |
|                                     | LO PRESSURE SWITCH                          |                         |                         |                         |
|                                     | OPENS / CLOSES PSIG                         | 22 / 50                 | 22 / 50                 | 22 / 50                 |
|                                     | HI PRESSURE SWITCH - OPENS PSIG             |                         |                         |                         |
|                                     | OPENS / CLOSES PSIG                         | 660 / 420               | 660 / 420               | 660 / 420               |
|                                     | SHIPPING WEIGHT (LBS.)                      | 385                     | 415                     | 415                     |
|                                     | OPERATING WEIGHT (LBS.)                     | 375                     | 405                     | 405                     |

<sup>(2)</sup> Maximum Overcurrent Protection Device: **MUST** use Time Delay Fuse or HACR type Circuit Breaker of the same size as noted.

\* Calculated external filter size based on air velocity of 300 ft/min.

Wire size should be determined in accordance with National Electrical Codes. Extensive wire runs will require larger wire sizes.

Unit specifications are subject to change without notice. **ALWAYS** refer to the units serial plate for the most up-to-date general and electrical information.

**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.

# ACCESSORIES

| ACCESSORIES - GPC/GPH***H MODELS |                                                                        |
|----------------------------------|------------------------------------------------------------------------|
| Part Number                      | Description                                                            |
| OT18-60A                         | Outdoor Thermostat Kit w/Lockout Stat                                  |
| OT/EHR18-60                      | Emergency Heat Relay Kit                                               |
| HKR                              | Electric Heat Kit                                                      |
| PCCP101-103                      | Roof Curb                                                              |
| PCP101-103                       | Downflow Plenum Kit                                                    |
| PCP101-103R8                     | Downflow Plenum Kit w/ R-8 Insulation                                  |
| PCEC101-103                      | Downflow Economizer for GPC-(H) A/C - To Be Used With PCP101-103       |
| PCEH101-103                      | Downflow Economizer for GPH-(H) Heat Pump - To Be Used With PCP101-103 |
| PCMD101-103                      | Manual Damper - To Be Used With PCP101-103                             |
| PCMDM101-103                     | Motorized Damper - To Be Used With PCP101-103                          |
| GPHMD101-103                     | Manual Damper for Horizontal Applications                              |
| SQRPCH101                        | Square to Round Adapters 16" & 14"                                     |
| SQRPCH102-103                    | Square to Round Adapters 18" & 14"                                     |
| SQRPC101                         | Square to Round Adapter - For Use With PCCP101-103 Curb 16" Rounds     |
| SQRPC102-103                     | Square to Round Adapter For Use With PCCP101-103 Curb 18" Rounds       |
| PCFR101-103                      | External Horizontal Filter Rack                                        |
| PCEF101-103                      | Elbow & Flashing w/ R-8 Liner                                          |
| CDK36                            | Flush Mount Concentric Duct Kit                                        |
| CDK36515                         | Flush Mount Concentric Duct Kit w/ Filter                              |
| CDK36530                         | Step Down Concentric Duct Kit                                          |
| CDK36535                         | Step Down Concentric Duct Kit w/ Filter                                |
| CDK4872                          | Flush Mount Concentric Duct Kit                                        |
| CDK4872515                       | Flush Mount Concentric Duct Kit w/ Filter                              |
| CDK4872530                       | Step Down Concentric Duct Kit                                          |
| CDK4872535                       | Step Down Concentric Duct Kit w/ Filter                                |
| SPK30-60                         | Single Point Wiring Kit                                                |

# BLOWER PERFORMANCE DATA

**GPH13[24-60]H41\*\***

*Dry Coil Data*

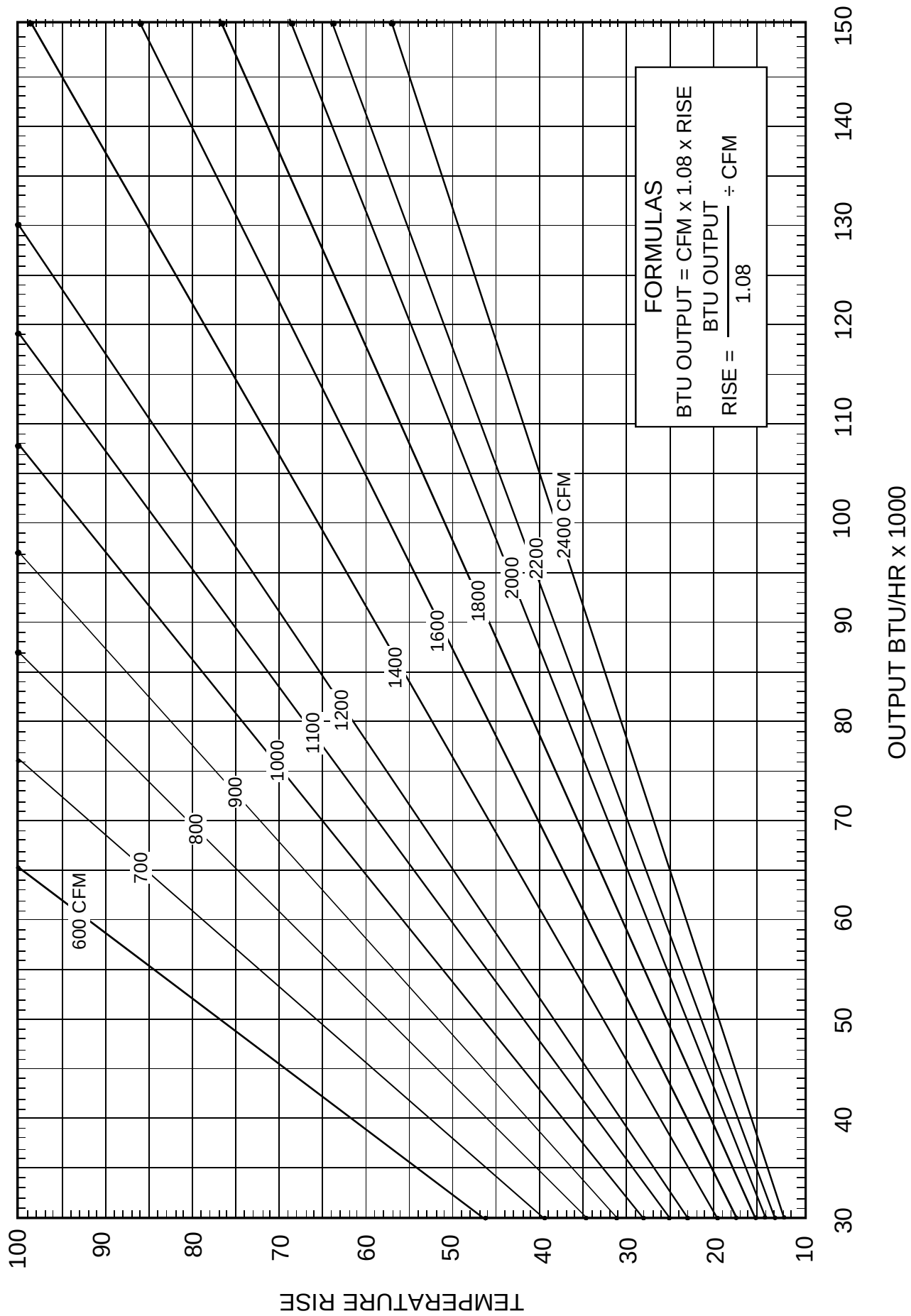
| Model          | Speed | Volts |       | E. S.P (In. of H <sub>2</sub> O) |       |       |       |       |       |       |       |
|----------------|-------|-------|-------|----------------------------------|-------|-------|-------|-------|-------|-------|-------|
|                |       |       |       | 0.1                              | 0.2   | 0.3   | 0.4   | 0.5   | 0.6   | 0.7   | 0.8   |
| GPH1324H41**   | LOW   | 230   | CFM   | 680                              | 640   | 590   | 555   | 505   | 440   | 340   | -     |
|                |       |       | WATTS | 155                              | 150   | 145   | 140   | 130   | 120   | 110   | -     |
|                | MED   | 230   | CFM   | 895                              | 855   | 815   | 755   | 700   | 630   | 545   | 390   |
|                |       |       | WATTS | 230                              | 220   | 215   | 205   | 195   | 180   | 170   | 145   |
|                | HIGH  | 230   | CFM   | 1,185                            | 1,130 | 1,070 | 1,010 | 930   | 850   | 760   | 650   |
|                |       |       | WATTS | 350                              | 340   | 325   | 310   | 295   | 280   | 265   | 245   |
| GPH1330H41**   | LOW   | 230   | CFM   | 1,150                            | 1,080 | 1,025 | 975   | 925   | 845   | -     | -     |
|                |       |       | WATTS | 340                              | 330   | 315   | 305   | 295   | 280   | -     | -     |
|                | MED   | 230   | CFM   | 1,335                            | 1,275 | 1,205 | 1,135 | 1,075 | 985   | 910   | 845   |
|                |       |       | WATTS | 425                              | 415   | 400   | 385   | 370   | 350   | 330   | 310   |
|                | HIGH  | 230   | CFM   | 1,435                            | 1,355 | 1,290 | 1,210 | 1,130 | 1,040 | 960   | 885   |
|                |       |       | WATTS | 485                              | 465   | 455   | 435   | 415   | 400   | 385   | 370   |
| GPH1336H41**   | LOW   | 230   | CFM   | 1,180                            | 1,125 | 1,075 | 1,020 | 955   | 875   | 655   | -     |
|                |       |       | WATTS | 335                              | 325   | 315   | 305   | 295   | 275   | 240   | -     |
|                | MED   | 230   | CFM   | 1,350                            | 1,280 | 1,205 | 1,130 | 1,050 | 985   | 910   | 845   |
|                |       |       | WATTS | 435                              | 420   | 405   | 385   | 375   | 350   | 330   | 310   |
|                | HIGH  | 230   | CFM   | 1,450                            | 1,370 | 1,290 | 1,205 | 1,130 | 1,040 | 960   | 885   |
|                |       |       | WATTS | 495                              | 480   | 465   | 440   | 425   | 400   | 385   | 370   |
| GPH1342H41**   | LOW   | 230   | CFM   | 1,425                            | 1,410 | 1,355 | 1,310 | 1,245 | 1,170 | 1,080 | -     |
|                |       |       | WATTS | 450                              | 445   | 430   | 420   | 405   | 390   | 370   | -     |
|                | MED   | 230   | CFM   | 1,620                            | 1,595 | 1,545 | 1,485 | 1,425 | 1,345 | 1,250 | 1,160 |
|                |       |       | WATTS | 550                              | 540   | 525   | 510   | 495   | 475   | 450   | 425   |
|                | HIGH  | 230   | CFM   | 1,945                            | 1,935 | 1,875 | 1,800 | 1,730 | 1,635 | 1,535 | 1,440 |
|                |       |       | WATTS | 765                              | 755   | 735   | 715   | 695   | 670   | 640   | 615   |
| GPH1348H41**   | LOW   | 230   | CFM   | 1,425                            | 1,410 | 1,355 | 1,310 | 1,245 | 1,170 | 1,080 | -     |
|                |       |       | WATTS | 450                              | 445   | 430   | 420   | 405   | 390   | 370   | -     |
|                | MED   | 230   | CFM   | 1,720                            | 1,660 | 1,585 | 1,520 | 1,460 | 1,365 | 1,270 | -     |
|                |       |       | WATTS | 560                              | 555   | 540   | 530   | 520   | 490   | 470   | -     |
|                | HIGH  | 230   | CFM   | 2,110                            | 2,060 | 1,980 | 1,895 | 1,795 | 1,705 | 1,590 | 1,500 |
|                |       |       | WATTS | 785                              | 780   | 765   | 745   | 720   | 705   | 665   | 625   |
| GPH1360H41A/B* | T1    | 230   | CFM   | 1,775                            | 1,635 | 1,645 | 1,515 | 1,510 | 1,450 | 1,430 | 1,400 |
|                |       |       | WATTS | 395                              | 420   | 435   | 445   | 455   | 465   | 470   | 475   |
|                | T2/T3 | 230   | CFM   | 1,845                            | 1,790 | 1,715 | 1,685 | 1,590 | 1,580 | 1,530 | 1,500 |
|                |       |       | WATTS | 490                              | 505   | 520   | 535   | 550   | 560   | 570   | 575   |
|                | T4/T5 | 230   | CFM   | 2,025                            | 1,900 | 1,840 | 1,780 | 1,725 | 1,650 | 1,620 | 1,580 |
|                |       |       | WATTS | 575                              | 595   | 620   | 630   | 645   | 655   | 660   | 670   |
| GPH1360H41C*   | T1    | 230   | CFM   | 1,750                            | 1,702 | 1,654 | 1,606 | 1,557 | 1,509 | 1,461 | 1,413 |
|                |       |       | WATTS | 334                              | 342   | 349   | 357   | 365   | 373   | 381   | 388   |
|                | T2/T3 | 230   | CFM   | 1,967                            | 1,919 | 1,871 | 1,823 | 1,774 | 1,726 | 1,678 | 1,630 |
|                |       |       | WATTS | 482                              | 490   | 498   | 506   | 513   | 521   | 529   | 537   |
|                | T4/T5 | 230   | CFM   | 2,106                            | 2,058 | 2,009 | 1,961 | 1,913 | 1,865 | 1,817 | 1,768 |
|                |       |       | WATTS | 577                              | 585   | 592   | 600   | 608   | 616   | 624   | 631   |

## NOTES:

1. Data shown is Dry Coil. Wet Coil Pressure Drop is approximate.
2. 0.1" H<sub>2</sub>O, for 2 row indoor coil; 0.2" H<sub>2</sub>O, for 3 row indoor coil; and 0.3" H<sub>2</sub>O, for 4 row indoor coil.
3. Data shown does not include filter pressure drop, approx. 0.08" H<sub>2</sub>O.
4. Reduce airflow by 2% for 208V operation.

BLOWER PERFORMANCE DATA

BTU OUTPUT vs TEMPERATURE RISE CHART



COOLING PERFORMANCE DATA

GPH1324H41\*\*

MODEL: GPH1324H41\*\* EXPANDED PERFORMANCE DATA COOLING OPERATION  
Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| IDB*    Airflow |         |      | Outdoor Ambient Temperature          |      |   |      |      |      |   |      |      |      |   |      |      |      |   |      |      |      |   |      |      |      |   |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|-----------------|---------|------|--------------------------------------|------|---|------|------|------|---|------|------|------|---|------|------|------|---|------|------|------|---|------|------|------|---|--|----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|
|                 |         |      | 65                                   |      |   |      |      |      |   |      | 75   |      |   |      |      |      |   |      | 85   |      |   |      |      |      |   |  | 95 |  |  |  |  |  |  |  | 105 |  |  |  |  |  |  |  | 115 |  |  |  |  |  |  |  |
|                 |         |      | 65                                   |      |   |      | 75   |      |   |      | 85   |      |   |      | 95   |      |   |      | 105  |      |   |      | 115  |      |   |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 |         |      | Entering Indoor Wet Bulb Temperature |      |   |      |      |      |   |      |      |      |   |      |      |      |   |      |      |      |   |      |      |      |   |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| 980             | MBh     | 23.5 | 24.4                                 | 26.7 | - | 23.0 | 23.8 | 26.1 | - | 22.4 | 23.2 | 25.5 | - | 21.9 | 22.7 | 24.8 | - | 20.8 | 21.5 | 23.6 | - | 19.3 | 20.0 | 21.9 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | S/T     | 0.80 | 0.67                                 | 0.46 | - | 0.83 | 0.69 | 0.48 | - | 0.85 | 0.71 | 0.49 | - | 0.88 | 0.73 | 0.51 | - | 0.91 | 0.76 | 0.53 | - | 0.92 | 0.77 | 0.53 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | Delta T | 18   | 15                                   | 12   | - | 18   | 15   | 12   | - | 18   | 16   | 12   | - | 18   | 16   | 12   | - | 18   | 15   | 12   | - | 17   | 14   | 11   | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | KW      | 1.71 | 1.74                                 | 1.80 | - | 1.83 | 1.87 | 1.93 | - | 1.95 | 1.99 | 2.05 | - | 2.05 | 2.09 | 2.16 | - | 2.13 | 2.18 | 2.25 | - | 2.20 | 2.25 | 2.32 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | AMPS    | 7.2  | 7.4                                  | 7.6  | - | 7.7  | 7.9  | 8.1  | - | 8.3  | 8.5  | 8.8  | - | 8.8  | 9.0  | 9.3  | - | 9.3  | 9.5  | 9.8  | - | 9.8  | 10.0 | 10.3 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | LO PR   | 112  | 119                                  | 130  | - | 118  | 126  | 137  | - | 123  | 131  | 143  | - | 129  | 137  | 150  | - | 135  | 144  | 157  | - | 140  | 149  | 163  | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| 875             | MBh     | 22.8 | 23.7                                 | 25.9 | - | 22.3 | 23.1 | 25.3 | - | 21.8 | 22.6 | 24.7 | - | 21.2 | 22.0 | 24.1 | - | 20.2 | 20.9 | 22.9 | - | 18.7 | 19.4 | 21.2 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | S/T     | 0.76 | 0.64                                 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.81 | 0.68 | 0.47 | - | 0.84 | 0.70 | 0.49 | - | 0.87 | 0.73 | 0.50 | - | 0.88 | 0.73 | 0.51 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | Delta T | 18   | 16                                   | 12   | - | 19   | 16   | 12   | - | 19   | 16   | 12   | - | 19   | 16   | 12   | - | 18   | 16   | 12   | - | 17   | 15   | 11   | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | KW      | 1.69 | 1.73                                 | 1.78 | - | 1.82 | 1.86 | 1.92 | - | 1.93 | 1.97 | 2.03 | - | 2.03 | 2.07 | 2.14 | - | 2.11 | 2.16 | 2.23 | - | 2.18 | 2.23 | 2.31 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | AMPS    | 7.2  | 7.3                                  | 7.5  | - | 7.7  | 7.8  | 8.1  | - | 8.3  | 8.4  | 8.7  | - | 8.8  | 8.9  | 9.2  | - | 9.3  | 9.5  | 9.7  | - | 9.7  | 10.0 | 10.3 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | LO PR   | 111  | 118                                  | 129  | - | 117  | 125  | 136  | - | 122  | 130  | 141  | - | 128  | 136  | 149  | - | 134  | 143  | 156  | - | 139  | 148  | 161  | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| 770             | MBh     | 21.7 | 22.5                                 | 24.6 | - | 21.2 | 22.0 | 24.1 | - | 20.7 | 21.4 | 23.5 | - | 20.2 | 20.9 | 22.9 | - | 19.2 | 19.9 | 21.8 | - | 17.8 | 18.4 | 20.2 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | S/T     | 0.73 | 0.61                                 | 0.42 | - | 0.76 | 0.63 | 0.44 | - | 0.78 | 0.65 | 0.45 | - | 0.80 | 0.67 | 0.46 | - | 0.83 | 0.70 | 0.48 | - | 0.84 | 0.70 | 0.49 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | Delta T | 19   | 16                                   | 12   | - | 19   | 17   | 13   | - | 19   | 17   | 13   | - | 19   | 17   | 13   | - | 19   | 17   | 13   | - | 18   | 15   | 12   | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | KW      | 1.67 | 1.70                                 | 1.75 | - | 1.79 | 1.83 | 1.89 | - | 1.90 | 1.94 | 2.00 | - | 2.00 | 2.04 | 2.10 | - | 2.08 | 2.12 | 2.19 | - | 2.15 | 2.20 | 2.27 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | AMPS    | 7.1  | 7.2                                  | 7.4  | - | 7.6  | 7.7  | 7.9  | - | 8.1  | 8.3  | 8.5  | - | 8.6  | 8.8  | 9.1  | - | 9.1  | 9.3  | 9.6  | - | 9.6  | 9.8  | 10.1 | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|                 | LO PR   | 109  | 116                                  | 126  | - | 115  | 122  | 133  | - | 119  | 127  | 139  | - | 125  | 133  | 146  | - | 131  | 140  | 153  | - | 136  | 145  | 158  | - |  |    |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |

|     |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 980 | MBh     | 23.9 | 24.6 | 26.7 | 28.6 | 23.4 | 24.1 | 26.0 | 27.9 | 22.8 | 23.5 | 25.4 | 27.3 | 22.2 | 22.9 | 24.8 | 26.6 | 21.1 | 21.8 | 23.6 | 25.3 | 19.6 | 20.2 | 21.8 | 23.4 |
|     | S/T     | 0.91 | 0.81 | 0.62 | 0.40 | 0.94 | 0.84 | 0.64 | 0.41 | 0.97 | 0.87 | 0.66 | 0.42 | 1.00 | 0.89 | 0.68 | 0.44 | 1.00 | 0.93 | 0.70 | 0.45 | 1.00 | 0.94 | 0.71 | 0.46 |
|     | Delta T | 20   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 20   | 19   | 16   | 11   | 18   | 18   | 14   | 10   |
|     | KW      | 1.72 | 1.76 | 1.81 | 1.87 | 1.85 | 1.89 | 1.95 | 2.01 | 1.96 | 2.00 | 2.07 | 2.13 | 2.06 | 2.11 | 2.17 | 2.25 | 2.15 | 2.19 | 2.27 | 2.34 | 2.22 | 2.27 | 2.34 | 2.42 |
|     | AMPS    | 7.3  | 7.5  | 7.7  | 7.9  | 7.8  | 8.0  | 8.2  | 8.5  | 8.4  | 8.6  | 8.8  | 9.1  | 8.9  | 9.1  | 9.4  | 9.7  | 9.4  | 9.6  | 9.9  | 10.2 | 9.9  | 10.1 | 10.4 | 10.8 |
|     | HiPR    | 244  | 263  | 277  | 289  | 274  | 295  | 311  | 325  | 311  | 335  | 354  | 369  | 355  | 382  | 403  | 420  | 399  | 429  | 453  | 473  | 441  | 474  | 501  | 523  |
|     | LOPR    | 113  | 120  | 131  | 140  | 120  | 127  | 139  | 148  | 124  | 132  | 144  | 154  | 131  | 139  | 152  | 161  | 137  | 146  | 159  | 169  | 142  | 151  | 164  | 175  |
|     | MBh     | 23.2 | 23.9 | 25.9 | 27.8 | 22.7 | 23.4 | 25.3 | 27.1 | 22.1 | 22.8 | 24.7 | 26.5 | 21.6 | 22.2 | 24.1 | 25.8 | 20.5 | 21.1 | 22.9 | 24.5 | 19.0 | 19.6 | 21.2 | 22.7 |
|     | S/T     | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.92 | 0.83 | 0.63 | 0.40 | 0.95 | 0.85 | 0.65 | 0.42 | 0.99 | 0.88 | 0.67 | 0.43 | 1.00 | 0.89 | 0.68 | 0.43 |
|     | Delta T | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |
| 875 | KW      | 1.71 | 1.74 | 1.80 | 1.85 | 1.83 | 1.87 | 1.93 | 1.99 | 1.95 | 1.99 | 2.05 | 2.12 | 2.05 | 2.09 | 2.16 | 2.23 | 2.13 | 2.18 | 2.25 | 2.32 | 2.20 | 2.25 | 2.32 | 2.40 |
|     | AMPS    | 7.2  | 7.4  | 7.6  | 7.8  | 7.7  | 7.9  | 8.1  | 8.4  | 8.3  | 8.5  | 8.8  | 9.0  | 8.8  | 9.0  | 9.3  | 9.6  | 9.3  | 9.5  | 9.8  | 10.2 | 9.8  | 10.0 | 10.3 | 10.7 |
|     | HiPR    | 242  | 260  | 275  | 286  | 271  | 292  | 308  | 321  | 308  | 332  | 350  | 365  | 351  | 378  | 399  | 416  | 395  | 425  | 449  | 468  | 437  | 470  | 496  | 517  |
|     | LOPR    | 112  | 119  | 130  | 139  | 118  | 126  | 138  | 146  | 123  | 131  | 143  | 152  | 129  | 138  | 150  | 160  | 135  | 144  | 157  | 168  | 140  | 149  | 163  | 173  |
|     | MBh     | 22.1 | 22.7 | 24.6 | 26.4 | 21.5 | 22.2 | 24.0 | 25.8 | 21.0 | 21.7 | 23.4 | 25.2 | 20.5 | 21.1 | 22.9 | 24.5 | 19.5 | 20.1 | 21.7 | 23.3 | 18.1 | 18.6 | 20.1 | 21.6 |
|     | S/T     | 0.83 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.38 | 0.88 | 0.79 | 0.60 | 0.39 | 0.91 | 0.82 | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.96 | 0.85 | 0.65 | 0.42 |
| 770 | Delta T | 22   | 20   | 17   | 11   | 22   | 20   | 17   | 12   | 22   | 20   | 17   | 12   | 22   | 21   | 17   | 12   | 22   | 20   | 17   | 11   | 21   | 19   | 16   | 11   |
|     | KW      | 1.68 | 1.72 | 1.77 | 1.82 | 1.81 | 1.84 | 1.90 | 1.96 | 1.92 | 1.96 | 2.02 | 2.08 | 2.01 | 2.06 | 2.12 | 2.19 | 2.10 | 2.14 | 2.21 | 2.28 | 2.17 | 2.21 | 2.29 | 2.36 |
|     | AMPS    | 7.1  | 7.3  | 7.5  | 7.7  | 7.6  | 7.8  | 8.0  | 8.3  | 8.2  | 8.4  | 8.6  | 8.9  | 8.7  | 8.9  | 9.1  | 9.4  | 9.2  | 9.4  | 9.7  | 10.0 | 9.7  | 9.9  | 10.2 | 10.5 |
|     | HiPR    | 237  | 255  | 269  | 281  | 266  | 286  | 302  | 315  | 302  | 325  | 343  | 358  | 344  | 370  | 391  | 408  | 387  | 417  | 440  | 459  | 428  | 460  | 486  | 507  |
|     | LOPR    | 110  | 117  | 128  | 136  | 116  | 123  | 135  | 144  | 121  | 128  | 140  | 149  | 127  | 135  | 147  | 157  | 133  | 141  | 154  | 164  | 137  | 146  | 159  | 170  |

MODEL: GPH1324H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| IDB*  |         | Outdoor Ambient Temperature          |      |      |      |      |      |      |      |      |      | 95                                   |      |      |      |      |      |      |      |      |      | 105                                  |      |      |      |      |      |      |      |      |      | 115                                  |      |      |      |      |      |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|-------|---------|--------------------------------------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|------|------|------|--|--|--|--------------------------------------|--|--|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|--|--|
|       |         | 65                                   |      |      |      |      |      |      |      |      |      | 75                                   |      |      |      |      |      |      |      |      |      | 85                                   |      |      |      |      |      |      |      |      |      | 95                                   |      |      |      |      |      |      |  |  |  | 105                                  |  |  |  |  |  |  |  |  |  | 115 |  |  |  |  |  |  |  |  |  |
|       |         | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |  |  |  | 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   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59                                   | 63   | 67   | 71   |      |      |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 980   | MBh     | 24.3                                 | 24.9 | 26.6 | 28.4 | 23.8 | 24.3 | 26.0 | 27.7 | 23.2 | 23.7 | 25.3                                 | 27.1 | 22.6 | 23.1 | 24.7 | 26.4 | 21.5 | 22.0 | 23.5 | 25.1 | 19.9                                 | 20.4 | 21.8 | 23.3 | 19.9 | 20.4 | 21.8 | 23.3 | 19.9 | 20.4 | 21.8                                 | 23.3 | 19.9 | 20.4 | 21.8 | 23.3 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | S/T     | 1.00                                 | 0.94 | 0.76 | 0.57 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.81                                 | 0.61 | 1.00 | 1.00 | 0.84 | 0.63 | 1.00 | 1.00 | 0.87 | 0.65 | 1.00                                 | 1.00 | 0.88 | 0.65 | 1.00 | 1.00 | 0.88 | 0.65 | 1.00 | 1.00 | 0.88                                 | 0.65 | 1.00 | 1.00 | 0.88 | 0.65 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | Delta T | 23                                   | 22   | 19   | 15   | 22   | 23   | 19   | 15   | 22   | 22   | 19                                   | 15   | 21   | 22   | 19   | 16   | 20   | 21   | 19   | 15   | 19                                   | 19   | 18   | 14   | 19   | 19   | 18   | 14   | 19   | 19   | 18                                   | 14   | 19   | 19   | 18   | 14   |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | KW      | 1.73                                 | 1.77 | 1.82 | 1.88 | 1.86 | 1.90 | 1.96 | 2.03 | 1.98 | 2.02 | 2.08                                 | 2.15 | 2.08 | 2.12 | 2.19 | 2.26 | 2.17 | 2.21 | 2.28 | 2.36 | 2.24                                 | 2.29 | 2.36 | 2.44 | 2.24 | 2.29 | 2.36 | 2.44 | 2.24 | 2.29 | 2.36                                 | 2.44 | 2.24 | 2.29 | 2.36 | 2.44 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | AMPS    | 7.4                                  | 7.5  | 7.7  | 8.0  | 7.9  | 8.0  | 8.3  | 8.5  | 8.5  | 8.6  | 8.9                                  | 9.2  | 9.0  | 9.2  | 9.4  | 9.8  | 9.5  | 9.7  | 10.0 | 10.3 | 10.0                                 | 10.2 | 10.5 | 10.9 | 10.0 | 10.2 | 10.5 | 10.9 | 10.0 | 10.2 | 10.5                                 | 10.9 | 10.0 | 10.2 | 10.5 | 10.9 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | HI PR   | 246                                  | 265  | 280  | 292  | 277  | 298  | 314  | 328  | 315  | 339  | 357                                  | 373  | 358  | 386  | 407  | 425  | 403  | 434  | 458  | 478  | 445                                  | 479  | 506  | 528  | 445  | 479  | 506  | 528  | 445  | 479  | 506                                  | 528  | 445  | 479  | 506  | 528  |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | LO PR   | 114                                  | 122  | 133  | 141  | 121  | 129  | 140  | 149  | 126  | 134  | 146                                  | 155  | 132  | 140  | 153  | 163  | 138  | 147  | 161  | 171  | 143                                  | 152  | 166  | 177  | 143  | 152  | 166  | 177  | 143  | 152  | 166                                  | 177  | 143  | 152  | 166  | 177  |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | MBh     | 23.6                                 | 24.1 | 25.8 | 27.6 | 23.1 | 23.6 | 25.2 | 26.9 | 22.5 | 23.0 | 24.6                                 | 26.3 | 22.0 | 22.5 | 24.0 | 25.7 | 20.9 | 21.3 | 22.8 | 24.4 | 19.3                                 | 19.8 | 21.1 | 22.6 | 19.3 | 19.8 | 21.1 | 22.6 | 19.3 | 19.8 | 21.1                                 | 22.6 | 19.3 | 19.8 | 21.1 | 22.6 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | S/T     | 0.95                                 | 0.89 | 0.73 | 0.54 | 0.99 | 0.93 | 0.75 | 0.56 | 1.00 | 0.95 | 0.77                                 | 0.58 | 1.00 | 0.98 | 0.80 | 0.60 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00                                 | 1.00 | 0.84 | 0.62 | 1.00 | 1.00 | 0.84 | 0.62 | 1.00 | 1.00 | 0.84                                 | 0.62 | 1.00 | 1.00 | 0.84 | 0.62 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| 875   | Delta T | 24                                   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20                                   | 16   | 23   | 23   | 20   | 16   | 22   | 22   | 20   | 16   | 20                                   | 21   | 19   | 15   | 20   | 21   | 19   | 15   | 20   | 21   | 19                                   | 15   | 20   | 21   | 19   | 15   |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | KW      | 1.72                                 | 1.76 | 1.81 | 1.87 | 1.85 | 1.89 | 1.95 | 2.01 | 1.96 | 2.00 | 2.07                                 | 2.14 | 2.06 | 2.11 | 2.18 | 2.25 | 2.15 | 2.19 | 2.27 | 2.34 | 2.22                                 | 2.27 | 2.34 | 2.42 | 2.22 | 2.27 | 2.34 | 2.42 | 2.22 | 2.27 | 2.34                                 | 2.42 | 2.22 | 2.27 | 2.34 | 2.42 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | AMPS    | 7.3                                  | 7.5  | 7.7  | 7.9  | 7.8  | 8.0  | 8.2  | 8.5  | 8.4  | 8.6  | 8.8                                  | 9.1  | 8.9  | 9.1  | 9.4  | 9.7  | 9.4  | 9.6  | 9.9  | 10.2 | 9.9                                  | 10.1 | 10.4 | 10.8 | 9.9  | 10.1 | 10.4 | 10.8 | 9.9  | 10.1 | 10.4                                 | 10.8 | 9.9  | 10.1 | 10.4 | 10.8 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | HI PR   | 244                                  | 263  | 277  | 289  | 274  | 295  | 311  | 325  | 311  | 335  | 354                                  | 369  | 355  | 382  | 403  | 420  | 399  | 429  | 453  | 473  | 441                                  | 474  | 501  | 523  | 441  | 474  | 501  | 523  | 441  | 474  | 501                                  | 523  | 441  | 474  | 501  | 523  |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | LO PR   | 113                                  | 120  | 131  | 140  | 120  | 127  | 139  | 148  | 124  | 132  | 144                                  | 154  | 131  | 139  | 152  | 162  | 137  | 146  | 159  | 169  | 142                                  | 151  | 164  | 175  | 142  | 151  | 164  | 175  | 142  | 151  | 164                                  | 175  | 142  | 151  | 164  | 175  |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | MBh     | 22.5                                 | 22.9 | 24.5 | 26.2 | 21.9 | 22.4 | 23.9 | 25.6 | 21.4 | 21.9 | 23.4                                 | 25.0 | 20.9 | 21.3 | 22.8 | 24.4 | 19.8 | 20.3 | 21.7 | 23.2 | 18.4                                 | 18.8 | 20.1 | 21.4 | 18.4 | 18.8 | 20.1 | 21.4 | 18.4 | 18.8 | 20.1                                 | 21.4 | 18.4 | 18.8 | 20.1 | 21.4 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | S/T     | 0.91                                 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 0.97 | 0.91 | 0.74                                 | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.04 | 0.97 | 0.79 | 0.59 | 1.05                                 | 0.98 | 0.80 | 0.60 | 1.05 | 0.98 | 0.80 | 0.60 | 1.05 | 0.98 | 0.80                                 | 0.60 | 1.05 | 0.98 | 0.80 | 0.60 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | Delta T | 24                                   | 23   | 20   | 16   | 25   | 24   | 21   | 16   | 25   | 24   | 21                                   | 17   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 16   | 23                                   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19                                   | 15   | 23   | 22   | 19   | 15   |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
|       | 770     | KW                                   | 1.69 | 1.73 | 1.78 | 1.84 | 1.82 | 1.86 | 1.92 | 1.98 | 1.93 | 1.97                                 | 2.03 | 2.10 | 2.03 | 2.07 | 2.14 | 2.21 | 2.11 | 2.16 | 2.23 | 2.30                                 | 2.18 | 2.23 | 2.31 | 2.38 | 2.18 | 2.23 | 2.31 | 2.38 | 2.18 | 2.23                                 | 2.31 | 2.38 | 2.18 | 2.23 | 2.31 | 2.38 |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| AMPS  |         | 7.2                                  | 7.3  | 7.5  | 7.8  | 7.7  | 7.8  | 8.1  | 8.3  | 8.3  | 8.4  | 8.7                                  | 9.0  | 8.8  | 8.9  | 9.2  | 9.5  | 9.3  | 9.5  | 9.7  | 10.1 | 9.7                                  | 10.0 | 10.3 | 10.6 | 9.7  | 10.0 | 10.3 | 10.6 | 9.7  | 10.0 | 10.3                                 | 10.6 | 9.7  | 10.0 | 10.3 | 10.6 |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| HI PR |         | 239                                  | 257  | 272  | 283  | 268  | 289  | 305  | 318  | 305  | 328  | 347                                  | 362  | 348  | 374  | 395  | 412  | 391  | 421  | 444  | 464  | 432                                  | 465  | 491  | 512  | 432  | 465  | 491  | 512  | 432  | 465  | 491                                  | 512  | 432  | 465  | 491  | 512  |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |
| LO PR |         | 111                                  | 118  | 129  | 137  | 117  | 125  | 136  | 145  | 122  | 130  | 141                                  | 151  | 128  | 136  | 149  | 158  | 134  | 143  | 156  | 166  | 139                                  | 148  | 161  | 172  | 139  | 148  | 161  | 172  | 139  | 148  | 161                                  | 172  | 139  | 148  | 161  | 172  |      |  |  |  |                                      |  |  |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |  |  |

| 85    | 980     | MBh     | 24.8 | 25.2 | 26.4 | 28.2 | 24.2 | 24.7 | 25.8 | 27.6 | 23.6 | 24.1 | 25.2 | 26.9 | 23.0 | 23.5 | 24.6 | 26.2 | 21.9 | 22.3 | 23.4 | 24.9 | 20.3 | 20.7 | 21.6 | 23.1 | 20.3 | 20.7 | 21.6 | 23.1 |    |
|-------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|
|       |         | S/T     | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.97 | 0.79 | 1.00 | 1.00 | 1.00 | 0.81 | 1.00 | 1.00 | 1.00 | 0.84 | 1.00 | 1.00 | 1.00 | 0.85 | 1.00 | 1.00 | 1.00 | 0.85 |    |
|       |         | Delta T | 23   | 24   | 23   | 20   | 23   | 23   | 23   | 20   | 22   | 23   | 23   | 20   | 22   | 22   | 23   | 23   | 20   | 21   | 21   | 22   | 20   | 19   | 19   | 20   | 18   | 19   | 19   | 20   | 18 |
|       |         | KW      | 1.75 | 1.78 | 1.84 | 1.90 | 1.88 | 1.92 | 1.98 | 2.04 | 1.99 | 2.04 | 2.10 | 2.17 | 2.10 | 2.14 | 2.21 | 2.28 | 2.18 | 2.23 | 2.30 | 2.38 | 2.26 | 2.31 | 2.38 | 2.46 | 2.26 | 2.31 | 2.38 | 2.46 |    |
|       |         | AMPS    | 7.4  | 7.6  | 7.8  | 8.0  | 7.9  | 8.1  | 8.3  | 8.6  | 8.5  | 8.7  | 9.0  | 9.3  | 9.0  | 9.2  | 9.5  | 9.8  | 9.6  | 9.8  | 10.1 | 10.4 | 10.1 | 10.3 | 10.6 | 11.0 | 10.1 | 10.3 | 10.6 | 11.0 |    |
|       |         | HI PR   | 249  | 268  | 283  | 295  | 279  | 301  | 317  | 331  | 318  | 342  | 361  | 377  | 362  | 389  | 411  | 429  | 407  | 438  | 463  | 482  | 450  | 484  | 511  | 533  | 450  | 484  | 511  | 533  |    |
|       |         | LO PR   | 115  | 123  | 134  | 143  | 122  | 130  | 142  | 151  | 127  | 135  | 147  | 157  | 133  | 142  | 155  | 165  | 140  | 149  | 162  | 173  | 144  | 154  | 168  | 179  | 144  | 154  | 168  | 179  |    |
|       | 875     | MBh     | 24.0 | 24.5 | 25.7 | 27.4 | 23.5 | 23.9 | 25.1 | 26.8 | 22.9 | 23.4 | 24.5 | 26.1 | 22.4 | 22.8 | 23.9 | 25.5 | 21.2 | 21.7 | 22.7 | 24.2 | 19.7 | 20.1 | 21.0 | 22.4 | 19.7 | 20.1 | 21.0 | 22.4 |    |
|       |         | S/T     | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.99 | 0.80 | 1.00 | 1.00 | 1.00 | 0.81 | 1.00 | 1.00 | 1.00 | 0.81 |    |
|       |         | Delta T | 25   | 25   | 23   | 20   | 25   | 25   | 24   | 21   | 24   | 25   | 24   | 21   | 24   | 24   | 24   | 21   | 22   | 23   | 24   | 20   | 21   | 21   | 22   | 19   | 21   | 21   | 22   | 19   |    |
| KW    |         | 1.73    | 1.77 | 1.82 | 1.88 | 1.86 | 1.90 | 1.96 | 2.03 | 1.98 | 2.02 | 2.08 | 2.15 | 2.08 | 2.12 | 2.19 | 2.26 | 2.17 | 2.21 | 2.28 | 2.36 | 2.24 | 2.29 | 2.36 | 2.44 | 2.24 | 2.29 | 2.36 | 2.44 |      |    |
| AMPS  |         | 7.4     | 7.5  | 7.7  | 8.0  | 7.9  | 8.0  | 8.3  | 8.5  | 8.5  | 8.6  | 8.9  | 9.2  | 9.0  | 9.2  | 9.4  | 9.8  | 9.5  | 9.7  | 10.0 | 10.3 | 10.0 | 10.2 | 10.5 | 10.9 | 10.0 | 10.2 | 10.5 | 10.9 |      |    |
| HI PR |         | 246     | 265  | 280  | 292  | 277  | 298  | 314  | 328  | 315  | 339  | 357  | 373  | 358  | 386  | 407  | 425  | 403  | 434  | 458  | 478  | 445  | 479  | 506  | 528  | 445  | 479  | 506  | 528  |      |    |
| LO PR |         | 114     | 122  | 133  | 141  | 121  | 129  | 140  | 149  | 126  | 134  | 146  | 155  | 132  | 140  | 153  | 163  | 138  | 147  | 161  | 171  | 143  | 152  | 166  | 177  | 143  | 152  | 166  | 177  |      |    |
| 770   | MBh     | 22.8    | 23.3 | 24.4 | 26.0 | 22.3 | 22.7 | 23.8 | 25.4 | 21.8 | 22.2 | 23.3 | 24.8 | 21.2 | 21.7 | 22.7 | 24.2 | 20.2 | 20.6 | 21.6 | 23.0 | 18.7 | 19.1 | 20.0 | 21.3 | 18.7 | 19.1 | 20.0 | 21.3 |      |    |
|       | S/T     | 0.96    | 0.92 | 0.83 | 0.68 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.96 | 0.78 | 1.00 | 1.00 | 0.96 | 0.78 |      |    |
|       | Delta T | 26      | 26   | 24   | 21   | 26   | 26   | 25   | 21   | 26   | 26   | 25   | 21   | 25   | 26   | 25   | 21   | 24   | 25   | 24   | 21   | 22   | 23   | 23   | 20   | 22   | 23   | 23   | 20   |      |    |
|       | KW      | 1.71    | 1.74 | 1.80 | 1.85 | 1.83 | 1.87 | 1.93 | 1.99 | 1.95 | 1.99 | 2.05 | 2.12 | 2.05 | 2.09 | 2.16 | 2.23 | 2.13 | 2.18 | 2.25 | 2.32 | 2.20 | 2.25 | 2.32 | 2.40 | 2.20 | 2.25 | 2.32 | 2.40 |      |    |
|       | AMPS    | 7.2     | 7.4  | 7.6  | 7.8  | 7.7  | 7.9  | 8.1  | 8.4  | 8.3  | 8.5  | 8.8  | 9.0  | 8.8  | 9.0  | 9.3  | 9.6  | 9.3  | 9.5  | 9.8  | 10.2 | 9.8  | 10.0 | 10.3 | 10.7 | 9.8  | 10.0 | 10.3 | 10.7 |      |    |
|       | HI PR   | 242     | 260  | 275  | 286  | 271  | 292  | 308  | 321  | 308  | 332  | 350  | 365  | 351  | 378  | 399  | 416  | 395  | 425  | 449  | 468  | 436  | 470  | 496  | 517  | 436  | 470  | 496  | 517  |      |    |
|       | LO PR   | 112     | 119  | 130  | 139  | 118  | 126  | 137  | 146  | 123  | 131  | 143  | 152  | 129  | 137  | 150  | 160  | 135  | 144  | 157  | 168  | 140  | 149  | 163  | 173  | 140  | 149  | 163  | 173  |      |    |



COOLING PERFORMANCE DATA

GPH1330H41\*\*

MODEL: GPH1330H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | Outdoor Ambient Temperature |      |       |      |      |      |      |      |      |      |      |      | Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |    |    |  |  |     |  |  |  |  |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------|------|-------|------|------|------|------|------|------|------|------|------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|----|--|--|-----|--|--|--|--|--|
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | 65                          |      |       |      |      |      | 75   |      |      |      |      |      | 85                          |      |      |      |      |      | 95   |      |      |      |      |      | 105  |      |    |    |  |  | 115 |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        | 59                          | 63   | 67    | 71   | 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                                                                                                                                                                                                                                                                                                                                                                                  | IDB*                                                                                                                                                                                                                                                                                                                                                                                   | Airflow                     | 1180 | MBh   | 27.6 | 28.6 | 31.4 | -    | 27.0 | 28.0 | 30.7 | -    | 26.3 | 27.3                        | 29.9 | -    | 25.7 | 26.6 | 29.2 | -    | 24.4 | 25.3 | 27.7 | -    | 22.6 | 23.4 | 25.7 | -  |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        |                             |      | S/T   | 0.80 | 0.67 | 0.46 | -    | 0.83 | 0.69 | 0.48 | -    | 0.85 | 0.71                        | 0.49 | -    | 0.87 | 0.73 | 0.51 | -    | 0.91 | 0.76 | 0.52 | -    | 0.91 | 0.76 | 0.53 | -  |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | Delta T                                                                                                                                                                                                                                                                                                                                                                                | 17                          |      | 15    | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -                           | 18   | 15   | 11   | -    | 17   | 15   | 11   | -    | 16   | 14   | 11   | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | KW                                                                                                                                                                                                                                                                                                                                                                                     | 2.03                        |      | 2.07  | 2.13 | -    | 2.18 | 2.22 | 2.29 | -    | 2.31 | 2.36 | 2.43 | -                           | 2.43 | 2.48 | 2.56 | -    | 2.53 | 2.58 | 2.66 | -    | 2.61 | 2.67 | 2.75 | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | AMPS                                                                                                                                                                                                                                                                                                                                                                                   | 8.7                         |      | 8.8   | 9.1  | -    | 9.3  | 9.4  | 9.7  | -    | 9.9  | 10.1 | 10.4 | -                           | 10.5 | 10.8 | 11.1 | -    | 11.1 | 11.4 | 11.7 | -    | 11.7 | 12.0 | 12.3 | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | HIPR                                                                                                                                                                                                                                                                                                                                                                                   | 247                         |      | 265   | 280  | -    | 277  | 298  | 314  | -    | 315  | 339  | 358  | -                           | 358  | 386  | 407  | -    | 403  | 434  | 458  | -    | 446  | 479  | 506  | -    |      |    |    |  |  |     |  |  |  |  |  |
| 70 <td rowspan="2">IDB*<td rowspan="2">Airflow</td><td rowspan="6">1050</td><td>LO PR</td><td>112</td><td>119</td><td>130</td><td>-</td><td>118</td><td>126</td><td>137</td><td>-</td><td>123</td><td>131</td><td>143</td><td>-</td><td>129</td><td>137</td><td>150</td><td>-</td><td>135</td><td>144</td><td>157</td><td>-</td><td>140</td><td>149</td><td>162</td><td>-</td></td> | IDB* <td rowspan="2">Airflow</td> <td rowspan="6">1050</td> <td>LO PR</td> <td>112</td> <td>119</td> <td>130</td> <td>-</td> <td>118</td> <td>126</td> <td>137</td> <td>-</td> <td>123</td> <td>131</td> <td>143</td> <td>-</td> <td>129</td> <td>137</td> <td>150</td> <td>-</td> <td>135</td> <td>144</td> <td>157</td> <td>-</td> <td>140</td> <td>149</td> <td>162</td> <td>-</td> | Airflow                     | 1050 | LO PR | 112  | 119  | 130  | -    | 118  | 126  | 137  | -    | 123  | 131                         | 143  | -    | 129  | 137  | 150  | -    | 135  | 144  | 157  | -    | 140  | 149  | 162  | -  |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        |                             |      | MBh   | 26.8 | 27.8 | 30.5 | -    | 26.2 | 27.2 | 29.8 | -    | 25.6 | 26.5                        | 29.0 | -    | 25.0 | 25.9 | 28.3 | -    | 23.7 | 24.6 | 26.9 | -    | 22.0 | 22.8 | 24.9 | -  |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | S/T                                                                                                                                                                                                                                                                                                                                                                                    | 0.76                        |      | 0.63  | 0.44 | -    | 0.79 | 0.66 | 0.46 | -    | 0.81 | 0.67 | 0.47 | -                           | 0.83 | 0.70 | 0.48 | -    | 0.87 | 0.72 | 0.50 | -    | 0.87 | 0.73 | 0.50 | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | Delta T                                                                                                                                                                                                                                                                                                                                                                                | 18                          |      | 15    | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -                           | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | KW                                                                                                                                                                                                                                                                                                                                                                                     | 2.01                        |      | 2.05  | 2.12 | -    | 2.16 | 2.21 | 2.27 | -    | 2.29 | 2.34 | 2.41 | -                           | 2.41 | 2.46 | 2.54 | -    | 2.51 | 2.56 | 2.64 | -    | 2.59 | 2.65 | 2.73 | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | AMPS                                                                                                                                                                                                                                                                                                                                                                                   | 8.6                         |      | 8.8   | 9.0  | -    | 9.2  | 9.4  | 9.6  | -    | 9.9  | 10.1 | 10.4 | -                           | 10.4 | 10.7 | 11.0 | -    | 11.0 | 11.3 | 11.6 | -    | 11.6 | 11.9 | 12.2 | -    |      |    |    |  |  |     |  |  |  |  |  |
| 920 <td rowspan="2">IDB*<td rowspan="2">Airflow</td><td rowspan="6">920</td><td>HIPR</td><td>244</td><td>263</td><td>277</td><td>-</td><td>274</td><td>295</td><td>311</td><td>-</td><td>312</td><td>335</td><td>354</td><td>-</td><td>355</td><td>382</td><td>403</td><td>-</td><td>399</td><td>430</td><td>454</td><td>-</td><td>441</td><td>475</td><td>501</td><td>-</td></td>  | IDB* <td rowspan="2">Airflow</td> <td rowspan="6">920</td> <td>HIPR</td> <td>244</td> <td>263</td> <td>277</td> <td>-</td> <td>274</td> <td>295</td> <td>311</td> <td>-</td> <td>312</td> <td>335</td> <td>354</td> <td>-</td> <td>355</td> <td>382</td> <td>403</td> <td>-</td> <td>399</td> <td>430</td> <td>454</td> <td>-</td> <td>441</td> <td>475</td> <td>501</td> <td>-</td>   | Airflow                     | 920  | HIPR  | 244  | 263  | 277  | -    | 274  | 295  | 311  | -    | 312  | 335                         | 354  | -    | 355  | 382  | 403  | -    | 399  | 430  | 454  | -    | 441  | 475  | 501  | -  |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        |                             |      | LO PR | 111  | 118  | 129  | -    | 117  | 124  | 136  | -    | 121  | 129                         | 141  | -    | 128  | 136  | 148  | -    | 134  | 142  | 155  | -    | 138  | 147  | 161  | -  |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | MBh                                                                                                                                                                                                                                                                                                                                                                                    | 24.8                        |      | 25.7  | 28.1 | -    | 24.2 | 25.1 | 27.5 | -    | 23.6 | 24.5 | 26.8 | -                           | 23.0 | 23.9 | 26.2 | -    | 21.9 | 22.7 | 24.9 | -    | 20.3 | 21.0 | 23.0 | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | S/T                                                                                                                                                                                                                                                                                                                                                                                    | 0.73                        |      | 0.61  | 0.42 | -    | 0.76 | 0.63 | 0.44 | -    | 0.78 | 0.65 | 0.45 | -                           | 0.80 | 0.67 | 0.47 | -    | 0.83 | 0.70 | 0.48 | -    | 0.84 | 0.70 | 0.49 | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | Delta T                                                                                                                                                                                                                                                                                                                                                                                | 18                          |      | 16    | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -                           | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    |      |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | KW                                                                                                                                                                                                                                                                                                                                                                                     | 1.97                        |      | 2.01  | 2.07 | -    | 2.11 | 2.15 | 2.22 | -    | 2.24 | 2.28 | 2.36 | -                           | 2.35 | 2.40 | 2.48 | -    | 2.45 | 2.50 | 2.58 | -    | 2.53 | 2.58 | 2.66 | -    |      |    |    |  |  |     |  |  |  |  |  |
| 920 <td rowspan="2">IDB*<td rowspan="2">Airflow</td><td>AMPS</td><td>8.4</td><td>8.6</td><td>8.8</td><td>-</td><td>9.0</td><td>9.1</td><td>9.4</td><td>-</td><td>9.6</td><td>9.8</td><td>10.1</td><td>-</td><td>10.2</td><td>10.4</td><td>10.7</td><td>-</td><td>10.8</td><td>11.0</td><td>11.3</td><td>-</td><td>11.3</td><td>11.6</td><td>11.9</td><td>-</td></td>                | IDB* <td rowspan="2">Airflow</td> <td>AMPS</td> <td>8.4</td> <td>8.6</td> <td>8.8</td> <td>-</td> <td>9.0</td> <td>9.1</td> <td>9.4</td> <td>-</td> <td>9.6</td> <td>9.8</td> <td>10.1</td> <td>-</td> <td>10.2</td> <td>10.4</td> <td>10.7</td> <td>-</td> <td>10.8</td> <td>11.0</td> <td>11.3</td> <td>-</td> <td>11.3</td> <td>11.6</td> <td>11.9</td> <td>-</td>                  | Airflow                     | AMPS | 8.4   | 8.6  | 8.8  | -    | 9.0  | 9.1  | 9.4  | -    | 9.6  | 9.8  | 10.1                        | -    | 10.2 | 10.4 | 10.7 | -    | 10.8 | 11.0 | 11.3 | -    | 11.3 | 11.6 | 11.9 | -    |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     |                                                                                                                                                                                                                                                                                                                                                                                        |                             | HIPR | 237   | 255  | 269  | -    | 266  | 286  | 302  | -    | 302  | 325  | 343                         | -    | 344  | 370  | 391  | -    | 387  | 417  | 440  | -    | 428  | 460  | 486  | -    |    |    |  |  |     |  |  |  |  |  |
|                                                                                                                                                                                                                                                                                                                                                                                     | LO PR                                                                                                                                                                                                                                                                                                                                                                                  | 107                         | 114  | 125   | -    | 113  | 121  | 132  | -    | 118  | 125  | 137  | -    | 124                         | 132  | 144  | -    | 130  | 138  | 151  | -    | 134  | 143  | 156  | -    |      |      |    |    |  |  |     |  |  |  |  |  |

\* Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
NOTE: Shaded area is ACCA (TVA) conditions

Design Subcooling, 12+3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8+3 °F @ the compressor suction access fitting connection.

| Outdoor Ambient Temperature |         |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----------------------------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 65                          |         |         |      |      | 75   |      |      |      |      | 85   |      |      |      |      | 95   |      |      |      |      | 105  |      |      |      |      | 115  |      |      |      |      |      |
| 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   | 59   | 63   | 67   | 71   |      |
| 80                          | 1180    | MBh     | 28.6 | 29.2 | 31.2 | 33.4 | 27.9 | 28.5 | 30.5 | 32.6 | 27.3 | 27.9 | 29.8 | 31.8 | 26.6 | 27.2 | 29.0 | 31.1 | 25.3 | 25.8 | 27.6 | 29.5 | 23.4 | 23.9 | 25.6 | 27.3 | 23.4 | 23.9 | 25.6 | 27.3 |
|                             |         | S/T     | 1.00 | 0.93 | 0.76 | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 1.00 | 0.81 | 0.60 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.86 | 0.65 | 1.00 | 1.00 | 0.87 | 0.65 | 1.00 | 1.00 | 0.87 | 0.65 |
|                             |         | Delta T | 22   | 21   | 18   | 15   | 22   | 21   | 19   | 15   | 21   | 22   | 19   | 15   | 21   | 21   | 19   | 15   | 20   | 20   | 19   | 15   | 18   | 19   | 17   | 14   | 18   | 19   | 17   | 14   |
|                             |         | KW      | 2.06 | 2.10 | 2.17 | 2.23 | 2.21 | 2.26 | 2.33 | 2.40 | 2.35 | 2.40 | 2.47 | 2.55 | 2.47 | 2.52 | 2.60 | 2.68 | 2.57 | 2.62 | 2.71 | 2.80 | 2.66 | 2.71 | 2.80 | 2.89 | 2.66 | 2.71 | 2.80 | 2.89 |
|                             |         | AMPS    | 8.8  | 9.0  | 9.2  | 9.5  | 9.4  | 9.6  | 9.9  | 10.2 | 10.1 | 10.3 | 10.6 | 11.0 | 10.7 | 10.9 | 11.3 | 11.6 | 11.3 | 11.6 | 11.9 | 12.3 | 11.9 | 12.2 | 12.5 | 13.0 | 11.9 | 12.2 | 12.5 | 13.0 |
|                             | 1050    | HIPR    | 252  | 271  | 286  | 298  | 282  | 304  | 321  | 335  | 321  | 346  | 365  | 381  | 366  | 394  | 416  | 433  | 411  | 443  | 468  | 488  | 455  | 489  | 517  | 539  | 455  | 489  | 517  | 539  |
|                             |         | LO PR   | 114  | 121  | 132  | 141  | 120  | 128  | 140  | 149  | 125  | 133  | 145  | 155  | 132  | 140  | 153  | 163  | 138  | 147  | 160  | 171  | 143  | 152  | 166  | 176  | 143  | 152  | 166  | 176  |
|                             |         | MBh     | 27.8 | 28.4 | 30.3 | 32.4 | 27.1 | 27.7 | 29.6 | 31.7 | 26.5 | 27.1 | 28.9 | 30.9 | 25.8 | 26.4 | 28.2 | 30.1 | 24.5 | 25.1 | 26.8 | 28.6 | 22.7 | 23.2 | 24.8 | 26.5 | 22.7 | 23.2 | 24.8 | 26.5 |
|                             |         | S/T     | 0.95 | 0.89 | 0.72 | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 1.00 | 0.94 | 0.77 | 0.57 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 1.00 | 0.82 | 0.62 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.83 | 0.62 |
|                             |         | Delta T | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 16   | 23   | 22   | 19   | 16   | 23   | 23   | 20   | 16   | 21   | 22   | 19   | 15   | 20   | 20   | 18   | 14   | 20   | 20   | 18   | 14   |
| 920                         | 1180    | KW      | 2.04 | 2.09 | 2.15 | 2.22 | 2.20 | 2.24 | 2.31 | 2.38 | 2.33 | 2.38 | 2.45 | 2.53 | 2.45 | 2.50 | 2.58 | 2.66 | 2.55 | 2.60 | 2.69 | 2.77 | 2.63 | 2.69 | 2.78 | 2.87 | 2.63 | 2.69 | 2.78 | 2.87 |
|                             |         | AMPS    | 8.7  | 8.9  | 9.2  | 9.4  | 9.3  | 9.5  | 9.8  | 10.1 | 10.0 | 10.2 | 10.5 | 10.9 | 10.6 | 10.8 | 11.2 | 11.5 | 11.2 | 11.5 | 11.8 | 12.2 | 11.8 | 12.1 | 12.4 | 12.9 | 11.8 | 12.1 | 12.4 | 12.9 |
|                             |         | HIPR    | 249  | 268  | 283  | 295  | 280  | 301  | 318  | 331  | 318  | 342  | 361  | 377  | 362  | 390  | 412  | 429  | 407  | 438  | 463  | 483  | 450  | 484  | 511  | 533  | 450  | 484  | 511  | 533  |
|                             |         | LO PR   | 113  | 120  | 131  | 140  | 119  | 127  | 139  | 148  | 124  | 132  | 144  | 153  | 130  | 139  | 151  | 161  | 136  | 145  | 159  | 169  | 141  | 150  | 164  | 175  | 141  | 150  | 164  | 175  |
|                             |         | MBh     | 25.6 | 26.2 | 28.0 | 29.9 | 25.0 | 25.6 | 27.3 | 29.2 | 24.4 | 25.0 | 26.7 | 28.5 | 23.8 | 24.4 | 26.0 | 27.8 | 22.7 | 23.1 | 24.7 | 26.4 | 21.0 | 21.4 | 22.9 | 24.5 | 21.0 | 21.4 | 22.9 | 24.5 |
|                             | 920     | S/T     | 0.91 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 0.97 | 0.91 | 0.74 | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.04 | 0.98 | 0.79 | 0.59 | 1.05 | 0.98 | 0.80 | 0.60 | 1.05 | 0.98 | 0.80 | 0.60 |
|                             |         | Delta T | 23   | 22   | 19   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 22   | 21   | 18   | 15   | 22   | 21   | 18   | 15   |
|                             |         | KW      | 2.00 | 2.04 | 2.10 | 2.16 | 2.14 | 2.19 | 2.26 | 2.33 | 2.27 | 2.32 | 2.39 | 2.47 | 2.39 | 2.44 | 2.52 | 2.60 | 2.49 | 2.54 | 2.62 | 2.71 | 2.57 | 2.62 | 2.71 | 2.80 | 2.57 | 2.62 | 2.71 | 2.80 |
|                             |         | AMPS    | 8.5  | 8.7  | 8.9  | 9.2  | 9.1  | 9.3  | 9.6  | 9.9  | 9.8  | 10.0 | 10.3 | 10.6 | 10.4 | 10.6 | 10.9 | 11.3 | 10.9 | 11.2 | 11.5 | 11.9 | 11.5 | 11.8 | 12.1 | 12.5 | 11.5 | 11.8 | 12.1 | 12.5 |
|                             |         | HIPR    | 242  | 260  | 275  | 286  | 271  | 292  | 308  | 321  | 308  | 332  | 350  | 366  | 351  | 378  | 399  | 416  | 395  | 425  | 449  | 468  | 437  | 470  | 496  | 517  | 437  | 470  | 496  | 517  |
|                             |         | LO PR   | 110  | 117  | 127  | 135  | 116  | 123  | 134  | 143  | 120  | 128  | 140  | 149  | 126  | 134  | 147  | 156  | 132  | 141  | 154  | 164  | 137  | 146  | 159  | 169  | 137  | 146  | 159  | 169  |

|     |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85  | 1180 | MBh     | 29.1 | 29.7 | 31.1 | 33.1 | 28.4 | 29.0 | 30.3 | 32.4 | 27.7 | 28.3 | 29.6 | 31.6 | 27.1 | 27.6 | 28.9 | 30.8 | 25.7 | 26.2 | 27.5 | 29.3 | 23.8 | 24.3 | 25.4 | 27.1 | 23.8 | 24.3 | 25.4 | 27.1 |
|     |      | S/T     | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.96 | 0.78 | 1.00 | 1.00 | 0.99 | 0.81 | 1.00 | 1.00 | 1.00 | 0.84 | 1.00 | 1.00 | 1.00 | 0.84 | 1.00 | 1.00 | 1.00 | 0.84 |
|     |      | Delta T | 23   | 23   | 22   | 19   | 22   | 23   | 22   | 19   | 22   | 22   | 22   | 19   | 21   | 21   | 22   | 19   | 20   | 20   | 21   | 19   | 19   | 19   | 20   | 18   | 19   | 19   | 20   | 18   |
|     |      | KW      | 2.08 | 2.12 | 2.18 | 2.25 | 2.23 | 2.28 | 2.35 | 2.42 | 2.37 | 2.42 | 2.49 | 2.57 | 2.49 | 2.54 | 2.62 | 2.71 | 2.59 | 2.64 | 2.73 | 2.82 | 2.68 | 2.74 | 2.82 | 2.92 | 2.68 | 2.74 | 2.82 | 2.92 |
|     |      | AMPS    | 8.9  | 9.0  | 9.3  | 9.6  | 9.5  | 9.7  | 9.9  | 10.3 | 10.2 | 10.4 | 10.7 | 11.1 | 10.8 | 11.0 | 11.3 | 11.7 | 11.4 | 11.7 | 12.0 | 12.4 | 12.0 | 12.3 | 12.6 | 13.1 | 12.0 | 12.3 | 12.6 | 13.1 |
|     | 1050 | HIPR    | 254  | 273  | 289  | 301  | 285  | 307  | 324  | 338  | 324  | 349  | 369  | 384  | 369  | 398  | 420  | 438  | 416  | 447  | 472  | 493  | 459  | 494  | 522  | 544  | 459  | 494  | 522  | 544  |
|     |      | LO PR   | 115  | 123  | 134  | 142  | 122  | 129  | 141  | 151  | 126  | 135  | 147  | 156  | 133  | 141  | 154  | 164  | 139  | 148  | 162  | 172  | 144  | 153  | 167  | 178  | 144  | 153  | 167  | 178  |
|     |      | MBh     | 28.3 | 28.8 | 30.2 | 32.2 | 27.6 | 28.1 | 29.5 | 31.4 | 26.9 | 27.5 | 28.8 | 30.7 | 26.3 | 26.8 | 28.1 | 29.9 | 25.0 | 25.5 | 26.7 | 28.4 | 23.1 | 23.6 | 24.7 | 26.3 | 23.1 | 23.6 | 24.7 | 26.3 |
|     |      | S/T     | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.98 | 0.80 | 1.00 | 1.00 | 0.99 | 0.81 | 1.00 | 1.00 | 0.99 | 0.81 |
|     |      | Delta T | 25   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 23   | 23   | 23   | 20   | 22   | 22   | 23   | 20   | 20   | 21   | 21   | 19   | 20   | 21   | 21   | 19   |
| 920 | 1180 | KW      | 2.06 | 2.10 | 2.17 | 2.23 | 2.21 | 2.26 | 2.33 | 2.40 | 2.35 | 2.40 | 2.47 | 2.55 | 2.47 | 2.52 | 2.60 | 2.68 | 2.57 | 2.62 | 2.71 | 2.80 | 2.66 | 2.71 | 2.80 | 2.89 | 2.66 | 2.71 | 2.80 | 2.89 |
|     |      | AMPS    | 8.8  | 9.0  | 9.2  | 9.5  | 9.4  | 9.6  | 9.9  | 10.2 | 10.1 | 10.3 | 10.6 | 11.0 | 10.7 | 10.9 | 11.3 | 11.6 | 11.3 | 11.6 | 11.9 | 12.3 | 11.9 | 12.2 | 12.5 | 13.0 | 11.9 | 12.2 | 12.5 | 13.0 |
|     |      | HIPR    | 252  | 271  | 286  | 298  | 282  | 304  | 321  | 335  | 321  | 346  | 365  | 381  | 366  | 394  | 416  | 433  | 411  | 443  | 468  | 488  | 455  | 489  | 517  | 539  | 455  | 489  | 517  | 539  |
|     |      | LO PR   | 114  | 121  | 132  | 141  | 120  | 128  | 140  | 149  | 125  | 133  | 145  | 155  | 132  | 140  | 153  | 163  | 138  | 147  | 160  | 171  | 143  | 152  | 166  | 176  | 143  | 152  | 166  | 176  |
|     |      | MBh     | 26.1 | 26.6 | 27.8 | 29.7 | 25.5 | 26.0 | 27.2 | 29.0 | 24.9 | 25.3 | 26.5 | 28.3 | 24.3 | 24.7 | 25.9 | 27.6 | 23.0 | 23.5 | 24.6 | 26.2 | 21.3 | 21.8 | 22.8 | 24.3 | 21.3 | 21.8 | 22.8 | 24.3 |
|     | 920  | S/T     | 0.96 | 0.92 | 0.83 | 0.68 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.96 | 0.78 | 1.00 | 1.00 | 0.96 | 0.78 |
|     |      | Delta T | 25   | 25   | 23   | 20   | 25   | 25   | 23   | 20   | 25   | 25   | 24   | 20   | 24   | 25   | 24   | 20   | 23   | 23   | 23   | 20   | 21   | 22   | 22   | 19   | 21   | 22   | 22   | 19   |
|     |      | KW      | 2.01 | 2.05 | 2.12 | 2.18 | 2.16 | 2.21 | 2.27 | 2.35 | 2.29 | 2.34 | 2.41 | 2.49 | 2.41 | 2.46 | 2.54 | 2.62 | 2.51 | 2.56 | 2.64 | 2.73 | 2.59 | 2.65 | 2.73 | 2.82 | 2.59 | 2.65 | 2.73 | 2.82 |
|     |      | AMPS    | 8.6  | 8.8  | 9.0  | 9.3  | 9.2  | 9.4  | 9.6  | 9.9  | 9.9  | 10.1 | 10.4 | 10.7 | 10.4 | 10.7 | 11.0 | 11.3 | 11.0 | 11.3 | 11.6 | 12.0 | 11.6 | 11.9 | 12.2 | 12.6 | 11.6 | 11.9 | 12.2 | 12.6 |
|     |      | HIPR    | 244  | 263  | 277  | 289  | 274  | 295  | 311  | 325  | 311  | 335  | 354  | 369  | 355  | 382  | 403  | 420  | 399  | 430  | 454  | 473  | 441  | 475  | 501  | 523  | 441  | 475  | 501  | 523  |
|     |      | LO PR   | 111  | 118  | 128  | 137  | 117  | 124  | 136  | 145  | 121  | 129  | 141  | 150  | 128  | 136  | 148  | 158  | 134  | 142  | 155  | 165  | 138  | 147  | 161  | 171  | 138  | 147  | 161  | 171  |

\* Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
NOTE: Shaded area is AHRI Rating Conditions  
KW = Total system power  
AMPS: Unit amps (comp.+ evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

GPH1336H41\*\*

MODEL: GPH1336H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|       |         | Outdoor Ambient Temperature |      |      |      |     |      |      |      |     |      | Outdoor Ambient Temperature |      |     |      |      |      |     |      |      |      |     |      |      |      |     |      |      |      |   |  |
|-------|---------|-----------------------------|------|------|------|-----|------|------|------|-----|------|-----------------------------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|-----|------|------|------|---|--|
|       |         | 65                          |      |      |      |     | 75   |      |      |     |      | 85                          |      |     |      |      | 95   |     |      |      |      | 105 |      |      |      |     | 115  |      |      |   |  |
| 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   | 59  | 63   | 67   | 71   |   |  |
| 70    | 1350    | MBh                         | 34.3 | 35.5 | 38.9 | -   | 33.5 | 34.7 | 38.0 | -   | 32.7 | 33.9                        | 37.1 | -   | 31.9 | 33.1 | 36.2 | -   | 30.3 | 31.4 | 34.4 | -   | 28.1 | 29.1 | 31.9 | -   | 28.1 | 29.1 | 31.9 | - |  |
|       |         | S/T                         | 0.76 | 0.63 | 0.44 | -   | 0.79 | 0.66 | 0.45 | -   | 0.81 | 0.67                        | 0.47 | -   | 0.83 | 0.69 | 0.48 | -   | 0.86 | 0.72 | 0.50 | -   | 0.87 | 0.73 | 0.50 | -   | 0.87 | 0.73 | 0.50 | - |  |
|       |         | Delta T                     | 18   | 15   | 12   | -   | 18   | 16   | 12   | -   | 18   | 16                          | 12   | -   | 18   | 16   | 12   | -   | 18   | 15   | 12   | -   | 17   | 14   | 11   | -   | 17   | 14   | 11   | - |  |
|       |         | KW                          | 2.61 | 2.66 | 2.74 | -   | 2.80 | 2.85 | 2.94 | -   | 2.96 | 3.02                        | 3.12 | -   | 3.11 | 3.18 | 3.27 | -   | 3.23 | 3.30 | 3.41 | -   | 3.34 | 3.41 | 3.52 | -   | 3.34 | 3.41 | 3.52 | - |  |
|       |         | AMPS                        | 11.1 | 11.3 | 11.6 | -   | 11.8 | 12.1 | 12.4 | -   | 12.7 | 13.0                        | 13.3 | -   | 13.4 | 13.7 | 14.1 | -   | 14.2 | 14.5 | 14.9 | -   | 14.9 | 15.2 | 15.7 | -   | 14.9 | 15.2 | 15.7 | - |  |
|       | 1200    | HI PR                       | 247  | 266  | 281  | -   | 277  | 298  | 315  | -   | 315  | 339                         | 358  | -   | 359  | 387  | 408  | -   | 404  | 435  | 459  | -   | 446  | 480  | 507  | -   | 446  | 480  | 507  | - |  |
|       |         | LO PR                       | 110  | 117  | 128  | -   | 116  | 124  | 135  | -   | 121  | 129                         | 140  | -   | 127  | 135  | 148  | -   | 133  | 142  | 155  | -   | 138  | 146  | 160  | -   | 138  | 146  | 160  | - |  |
|       |         | MBh                         | 33.3 | 34.5 | 37.8 | -   | 32.5 | 33.7 | 36.9 | -   | 31.7 | 32.9                        | 36.1 | -   | 31.0 | 32.1 | 35.2 | -   | 29.4 | 30.5 | 33.4 | -   | 27.3 | 28.3 | 31.0 | -   | 27.3 | 28.3 | 31.0 | - |  |
|       |         | S/T                         | 0.72 | 0.60 | 0.42 | -   | 0.75 | 0.63 | 0.43 | -   | 0.77 | 0.64                        | 0.44 | -   | 0.79 | 0.66 | 0.46 | -   | 0.82 | 0.69 | 0.48 | -   | 0.83 | 0.69 | 0.48 | -   | 0.83 | 0.69 | 0.48 | - |  |
|       |         | Delta T                     | 18   | 16   | 12   | -   | 19   | 16   | 12   | -   | 19   | 16                          | 12   | -   | 19   | 16   | 12   | -   | 19   | 16   | 12   | -   | 17   | 15   | 11   | -   | 17   | 15   | 11   | - |  |
| 1050  | 1200    | KW                          | 2.59 | 2.64 | 2.72 | -   | 2.78 | 2.83 | 2.92 | -   | 2.94 | 3.00                        | 3.09 | -   | 3.09 | 3.15 | 3.25 | -   | 3.21 | 3.28 | 3.38 | -   | 3.32 | 3.39 | 3.49 | -   | 3.32 | 3.39 | 3.49 | - |  |
|       |         | AMPS                        | 11.0 | 11.2 | 11.5 | -   | 11.8 | 12.0 | 12.3 | -   | 12.6 | 12.9                        | 13.2 | -   | 13.3 | 13.6 | 14.0 | -   | 14.1 | 14.4 | 14.8 | -   | 14.8 | 15.1 | 15.6 | -   | 14.8 | 15.1 | 15.6 | - |  |
|       |         | HI PR                       | 245  | 263  | 278  | -   | 275  | 295  | 312  | -   | 312  | 336                         | 355  | -   | 356  | 383  | 404  | -   | 400  | 431  | 455  | -   | 442  | 476  | 502  | -   | 442  | 476  | 502  | - |  |
|       |         | LO PR                       | 109  | 116  | 127  | -   | 115  | 123  | 134  | -   | 120  | 127                         | 139  | -   | 126  | 134  | 146  | -   | 132  | 140  | 153  | -   | 136  | 145  | 158  | -   | 136  | 145  | 158  | - |  |
|       |         | MBh                         | 30.7 | 31.9 | 34.9 | -   | 30.0 | 31.1 | 34.1 | -   | 29.3 | 30.4                        | 33.3 | -   | 28.6 | 29.6 | 32.5 | -   | 27.2 | 28.2 | 30.8 | -   | 25.2 | 26.1 | 28.6 | -   | 25.2 | 26.1 | 28.6 | - |  |
|       | 1050    | S/T                         | 0.70 | 0.58 | 0.40 | -   | 0.72 | 0.60 | 0.42 | -   | 0.74 | 0.62                        | 0.43 | -   | 0.76 | 0.64 | 0.44 | -   | 0.79 | 0.66 | 0.46 | -   | 0.80 | 0.67 | 0.46 | -   | 0.80 | 0.67 | 0.46 | - |  |
|       |         | Delta T                     | 19   | 16   | 12   | -   | 19   | 16   | 12   | -   | 19   | 16                          | 12   | -   | 19   | 17   | 13   | -   | 19   | 16   | 12   | -   | 18   | 15   | 12   | -   | 18   | 15   | 12   | - |  |
|       |         | KW                          | 2.53 | 2.58 | 2.66 | -   | 2.71 | 2.77 | 2.85 | -   | 2.87 | 2.93                        | 3.02 | -   | 3.01 | 3.08 | 3.17 | -   | 3.13 | 3.20 | 3.30 | -   | 3.24 | 3.30 | 3.41 | -   | 3.24 | 3.30 | 3.41 | - |  |
|       |         | AMPS                        | 10.8 | 11.0 | 11.3 | -   | 11.5 | 11.7 | 12.0 | -   | 12.3 | 12.6                        | 12.9 | -   | 13.0 | 13.3 | 13.7 | -   | 13.7 | 14.0 | 14.4 | -   | 14.4 | 14.8 | 15.2 | -   | 14.4 | 14.8 | 15.2 | - |  |
|       |         | HI PR                       | 237  | 255  | 270  | -   | 266  | 287  | 303  | -   | 303  | 326                         | 344  | -   | 345  | 371  | 392  | -   | 388  | 418  | 441  | -   | 429  | 461  | 487  | -   | 429  | 461  | 487  | - |  |
| LO PR | 106     | 113                         | 123  | -    | 112  | 119 | 130  | -    | 116  | 124 | 135  | -                           | 122  | 130 | 142  | -    | 128  | 136 | 148  | -    | 132  | 141 | 154  | -    | 132  | 141 | 154  | -    |      |   |  |

|      |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75   | 1350 | MBh     | 34.9 | 35.9 | 38.9 | 41.7 | 34.1 | 35.1 | 38.0 | 40.7 | 33.3 | 34.2 | 37.1 | 39.8 | 32.4 | 33.4 | 36.2 | 38.8 | 30.8 | 31.7 | 34.4 | 36.9 | 28.6 | 29.4 | 31.8 | 34.2 |
|      |      | S/T     | 0.86 | 0.77 | 0.58 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.94 | 0.85 | 0.64 | 0.41 | 0.98 | 0.88 | 0.66 | 0.43 | 0.99 | 0.88 | 0.67 | 0.43 |
|      |      | Delta T | 20   | 19   | 15   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 21   | 19   | 16   | 11   | 19   | 18   | 15   | 10   |
|      |      | KW      | 2.63 | 2.68 | 2.76 | 2.84 | 2.82 | 2.88 | 2.96 | 3.06 | 2.99 | 3.05 | 3.14 | 3.24 | 3.13 | 3.20 | 3.30 | 3.41 | 3.26 | 3.33 | 3.44 | 3.55 | 3.37 | 3.44 | 3.55 | 3.67 |
|      |      | AMPS    | 11.2 | 11.4 | 11.7 | 12.1 | 11.9 | 12.2 | 12.5 | 12.9 | 12.8 | 13.1 | 13.4 | 13.9 | 13.6 | 13.8 | 14.2 | 14.7 | 14.3 | 14.6 | 15.0 | 15.5 | 15.0 | 15.4 | 15.8 | 16.4 |
|      | 1200 | HI PR   | 250  | 269  | 284  | 296  | 280  | 301  | 318  | 332  | 319  | 343  | 362  | 378  | 363  | 391  | 412  | 430  | 408  | 439  | 464  | 484  | 451  | 485  | 513  | 535  |
|      |      | LO PR   | 111  | 118  | 129  | 138  | 118  | 125  | 137  | 145  | 122  | 130  | 142  | 151  | 128  | 137  | 149  | 159  | 134  | 143  | 156  | 166  | 139  | 148  | 162  | 172  |
|      |      | MBh     | 33.9 | 34.9 | 37.7 | 40.5 | 33.1 | 34.1 | 36.9 | 39.6 | 32.3 | 33.2 | 36.0 | 38.6 | 31.5 | 32.4 | 35.1 | 37.7 | 29.9 | 30.8 | 33.3 | 35.8 | 27.7 | 28.5 | 30.9 | 33.2 |
|      |      | S/T     | 0.82 | 0.73 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.94 | 0.84 | 0.63 | 0.41 | 0.94 | 0.84 | 0.64 | 0.41 |
|      |      | Delta T | 21   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |
| 1050 | 1350 | KW      | 2.61 | 2.66 | 2.74 | 2.82 | 2.80 | 2.85 | 2.94 | 3.03 | 2.96 | 3.02 | 3.12 | 3.22 | 3.11 | 3.18 | 3.27 | 3.38 | 3.23 | 3.30 | 3.41 | 3.52 | 3.34 | 3.41 | 3.52 | 3.64 |
|      |      | AMPS    | 11.1 | 11.3 | 11.6 | 12.0 | 11.8 | 12.1 | 12.4 | 12.8 | 12.7 | 13.0 | 13.3 | 13.8 | 13.4 | 13.7 | 14.1 | 14.6 | 14.2 | 14.5 | 14.9 | 15.4 | 14.9 | 15.2 | 15.7 | 16.2 |
|      |      | HI PR   | 247  | 266  | 281  | 293  | 277  | 298  | 315  | 329  | 315  | 339  | 358  | 374  | 359  | 387  | 408  | 426  | 404  | 435  | 459  | 479  | 447  | 481  | 507  | 529  |
|      |      | LO PR   | 110  | 117  | 128  | 136  | 116  | 124  | 135  | 144  | 121  | 129  | 140  | 150  | 127  | 135  | 148  | 157  | 133  | 142  | 155  | 165  | 138  | 147  | 160  | 170  |
|      |      | MBh     | 31.3 | 32.2 | 34.8 | 37.4 | 30.5 | 31.4 | 34.0 | 36.5 | 29.8 | 30.7 | 33.2 | 35.6 | 29.1 | 29.9 | 32.4 | 34.8 | 27.6 | 28.4 | 30.8 | 33.0 | 25.6 | 26.3 | 28.5 | 30.6 |
|      | 1050 | S/T     | 0.79 | 0.71 | 0.54 | 0.34 | 0.82 | 0.73 | 0.56 | 0.36 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.91 | 0.81 | 0.62 | 0.40 |
|      |      | Delta T | 22   | 20   | 16   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 17   | 12   | 22   | 20   | 16   | 11   | 20   | 19   | 15   | 11   |
|      |      | KW      | 2.55 | 2.60 | 2.68 | 2.76 | 2.73 | 2.79 | 2.87 | 2.96 | 2.89 | 2.95 | 3.04 | 3.14 | 3.04 | 3.10 | 3.20 | 3.30 | 3.16 | 3.22 | 3.33 | 3.43 | 3.26 | 3.33 | 3.44 | 3.55 |
|      |      | AMPS    | 10.9 | 11.1 | 11.4 | 11.7 | 11.6 | 11.8 | 12.1 | 12.5 | 12.4 | 12.7 | 13.0 | 13.4 | 13.1 | 13.4 | 13.8 | 14.2 | 13.9 | 14.1 | 14.6 | 15.0 | 14.6 | 14.9 | 15.3 | 15.8 |
|      |      | HI PR   | 240  | 258  | 272  | 284  | 269  | 290  | 306  | 319  | 306  | 329  | 348  | 363  | 349  | 375  | 396  | 413  | 392  | 422  | 446  | 465  | 433  | 466  | 492  | 513  |
|      |      | LO PR   | 107  | 114  | 124  | 132  | 113  | 120  | 131  | 140  | 117  | 125  | 136  | 145  | 123  | 131  | 143  | 152  | 129  | 137  | 150  | 160  | 134  | 142  | 155  | 165  |

\* Entering Indoor Dry Bulb Temperature NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

MODEL: GPH1336H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| IDB* Airflow |         |         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      | Indoor Bulb Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|--------------|---------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|-----|--|--|--|--|--|--|--|-----|--|--|--|--|--|--|--|
|              |         |         | 65                          |      |      |      |      |      |      |      | 75   |      |      |      |      |      |      |      | 85                      |      |      |      |      |      |      |      | 95   |      |      |      |      |      |      |      | 105 |  |  |  |  |  |  |  | 115 |  |  |  |  |  |  |  |
|              |         |         | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 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           | 1350    | MBh     | 35.5                        | 36.3 | 38.8 | 41.4 | 34.7 | 35.4 | 37.9 | 40.5 | 33.8 | 34.6 | 37.0 | 39.5 | 33.0 | 33.7 | 36.1 | 38.5 | 31.4                    | 32.1 | 34.2 | 36.6 | 29.1 | 29.7 | 31.7 | 33.9 | 29.1 | 29.7 | 31.7 | 33.9 | 29.1 | 29.7 | 31.7 | 33.9 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | S/T     | 0.94                        | 0.89 | 0.72 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.94 | 0.77 | 0.57 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00                    | 1.00 | 0.82 | 0.61 | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.82 | 0.61 | 1.00 | 1.00 | 0.83 | 0.62 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | Delta T | 23                          | 22   | 19   | 15   | 24   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 22   | 23   | 19   | 16   | 21                      | 22   | 19   | 15   | 20   | 20   | 18   | 14   | 20   | 20   | 18   | 14   | 20   | 20   | 18   | 14   |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | KW      | 2.65                        | 2.70 | 2.78 | 2.87 | 2.84 | 2.90 | 2.99 | 3.08 | 3.01 | 3.07 | 3.17 | 3.27 | 3.16 | 3.23 | 3.33 | 3.43 | 3.29                    | 3.36 | 3.46 | 3.57 | 3.40 | 3.47 | 3.58 | 3.70 | 3.40 | 3.47 | 3.58 | 3.70 | 3.40 | 3.47 | 3.58 | 3.70 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | AMPS    | 11.3                        | 11.5 | 11.8 | 12.2 | 12.0 | 12.3 | 12.6 | 13.0 | 12.9 | 13.2 | 13.5 | 14.0 | 13.7 | 14.0 | 14.4 | 14.8 | 14.4                    | 14.7 | 15.2 | 15.7 | 15.2 | 15.5 | 16.0 | 16.5 | 15.2 | 15.5 | 16.0 | 16.5 | 15.2 | 15.5 | 16.0 | 16.5 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | 1200    | HI PR   | 25.2                        | 27.1 | 28.7 | 29.9 | 28.3 | 30.5 | 32.2 | 33.5 | 32.2 | 34.6 | 36.6 | 38.1 | 36.7 | 39.4 | 41.7 | 43.4 | 41.2                    | 44.4 | 46.9 | 48.9 | 45.6 | 49.0 | 51.8 | 54.0 | 45.6 | 49.0 | 51.8 | 54.0 | 45.6 | 49.0 | 51.8 | 54.0 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | LO PR   | 11.2                        | 12.0 | 13.1 | 13.9 | 11.9 | 12.6 | 13.8 | 14.7 | 12.3 | 13.1 | 14.3 | 15.3 | 13.0 | 13.8 | 15.1 | 16.0 | 13.6                    | 14.5 | 15.8 | 16.8 | 14.1 | 14.9 | 16.3 | 17.4 | 14.1 | 14.9 | 16.3 | 17.4 | 14.1 | 14.9 | 16.3 | 17.4 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | MBh     | 34.5                        | 35.2 | 37.6 | 40.2 | 33.7 | 34.4 | 36.8 | 39.3 | 32.9 | 33.6 | 35.9 | 38.4 | 32.1 | 32.8 | 35.0 | 37.4 | 30.5                    | 31.1 | 33.3 | 35.5 | 28.2 | 28.8 | 30.8 | 32.9 | 28.2 | 28.8 | 30.8 | 32.9 | 28.2 | 28.8 | 30.8 | 32.9 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | S/T     | 0.90                        | 0.84 | 0.69 | 0.51 | 0.93 | 0.88 | 0.71 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.99 | 0.93 | 0.75 | 0.56 | 1.00                    | 0.96 | 0.78 | 0.59 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 0.97 | 0.79 | 0.59 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | 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   | 22   | 21   | 19   | 15   | 22   | 21   | 19   | 15   |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | 1050    | KW      | 2.63                        | 2.68 | 2.76 | 2.84 | 2.82 | 2.88 | 2.96 | 3.06 | 2.99 | 3.05 | 3.14 | 3.24 | 3.13 | 3.20 | 3.30 | 3.41 | 3.26                    | 3.33 | 3.44 | 3.55 | 3.37 | 3.44 | 3.55 | 3.67 | 3.37 | 3.44 | 3.55 | 3.67 | 3.37 | 3.44 | 3.55 | 3.67 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | AMPS    | 11.2                        | 11.4 | 11.7 | 12.1 | 11.9 | 12.2 | 12.5 | 12.9 | 12.8 | 13.1 | 13.4 | 13.9 | 13.6 | 13.8 | 14.2 | 14.7 | 14.3                    | 14.6 | 15.0 | 15.5 | 15.0 | 15.4 | 15.8 | 16.4 | 15.0 | 15.4 | 15.8 | 16.4 | 15.0 | 15.4 | 15.8 | 16.4 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | HI PR   | 25.0                        | 2.69 | 2.84 | 2.96 | 2.80 | 3.01 | 3.18 | 3.32 | 3.19 | 3.43 | 3.62 | 3.78 | 3.63 | 3.91 | 4.12 | 4.30 | 4.08                    | 4.39 | 4.64 | 4.84 | 4.51 | 4.85 | 5.13 | 5.35 | 4.51 | 4.85 | 5.13 | 5.35 | 4.51 | 4.85 | 5.13 | 5.35 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | LO PR   | 11.1                        | 11.8 | 12.9 | 13.8 | 11.8 | 12.5 | 13.7 | 14.5 | 1.22 | 1.30 | 1.42 | 1.51 | 1.28 | 1.37 | 1.49 | 1.59 | 1.34                    | 1.43 | 1.56 | 1.66 | 1.39 | 1.48 | 1.62 | 1.72 | 1.39 | 1.48 | 1.62 | 1.72 | 1.39 | 1.48 | 1.62 | 1.72 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              |         | MBh     | 31.8                        | 32.5 | 34.7 | 37.1 | 31.1 | 31.7 | 33.9 | 36.3 | 30.3 | 31.0 | 33.1 | 35.4 | 29.6 | 30.2 | 32.3 | 34.5 | 28.1                    | 28.7 | 30.7 | 32.8 | 26.0 | 26.6 | 28.4 | 30.4 | 26.0 | 26.6 | 28.4 | 30.4 | 26.0 | 26.6 | 28.4 | 30.4 |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | S/T     | 0.87    | 0.81                        | 0.66 | 0.50 | 0.90 | 0.84 | 0.69 | 0.51 | 0.92 | 0.87 | 0.70 | 0.53 | 0.95 | 0.89 | 0.73 | 0.54 | 0.99 | 0.93                    | 0.75 | 0.56 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 0.94 | 0.76 | 0.57 |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | Delta T | 24      | 23                          | 20   | 16   | 24   | 23   | 20   | 16   | 25   | 23   | 20   | 16   | 25   | 24   | 21   | 16   | 24   | 23                      | 20   | 16   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | KW      | 2.57    | 2.62                        | 2.70 | 2.78 | 2.75 | 2.81 | 2.89 | 2.98 | 2.92 | 2.98 | 3.07 | 3.16 | 3.06 | 3.12 | 3.22 | 3.32 | 3.18 | 3.25                    | 3.35 | 3.46 | 3.29 | 3.36 | 3.46 | 3.58 | 3.29 | 3.36 | 3.46 | 3.58 | 3.29 | 3.36 | 3.46 | 3.58 |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | AMPS    | 10.9    | 11.2                        | 11.5 | 11.8 | 11.7 | 11.9 | 12.2 | 12.6 | 12.5 | 12.8 | 13.1 | 13.5 | 13.2 | 13.5 | 13.9 | 14.4 | 14.0 | 14.3                    | 14.7 | 15.2 | 14.7 | 15.0 | 15.4 | 16.0 | 14.7 | 15.0 | 15.4 | 16.0 | 14.7 | 15.0 | 15.4 | 16.0 |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|              | HI PR   | 24.2    | 26.1                        | 27.5 | 28.7 | 27.2 | 29.2 | 30.9 | 32.2 | 30.9 | 33.3 | 35.1 | 36.6 | 35.2 | 37.9 | 40.0 | 41.7 | 39.6 | 42.6                    | 45.0 | 46.9 | 43.8 | 47.1 | 49.7 | 51.9 | 43.8 | 47.1 | 49.7 | 51.9 | 43.8 | 47.1 | 49.7 | 51.9 |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| LO PR        | 10.8    | 11.5    | 12.5                        | 13.3 | 11.4 | 12.1 | 13.2 | 14.1 | 11.9 | 12.6 | 13.8 | 14.7 | 12.4 | 13.2 | 14.5 | 15.4 | 13.0 | 13.9 | 15.2                    | 16.1 | 13.5 | 14.4 | 15.7 | 16.7 | 13.5 | 14.4 | 15.7 | 16.7 | 13.5 | 14.4 | 15.7 | 16.7 |      |      |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |

COOLING PERFORMANCE DATA

GPH1342H41\*\*

MODEL: GPH1342H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection ARI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|      |         | 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   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
| 70   | 1585    | MBh                                  | 39.7 | 41.1 | 45.1 | -    | 38.8 | 40.2 | 44.0 | -    | 37.8 | 39.2 | 43.0 | -    | 36.9 | 38.3 | 41.9 | -    | 35.1 | 36.4 | 39.8 | -    | 32.5 | 33.7 | 36.9 | -    | 32.5 | 33.7 | 36.9 | -    | 32.5 | 33.7 | 36.9 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | S/T                                  | 0.76 | 0.63 | 0.44 | -    | 0.79 | 0.66 | 0.46 | -    | 0.81 | 0.67 | 0.47 | -    | 0.83 | 0.70 | 0.48 | -    | 0.87 | 0.72 | 0.50 | -    | 0.87 | 0.73 | 0.50 | -    | 0.87 | 0.73 | 0.50 | -    | 0.87 | 0.73 | 0.50 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | Delta T                              | 17   | 15   | 11   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 18   | 15   | 12   | -    | 16   | 14   | 11   | -    | 16   | 14   | 11   | -    | 16   | 14   | 11   | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | KW                                   | 2.82 | 2.88 | 2.96 | -    | 3.02 | 3.08 | 3.17 | -    | 3.20 | 3.26 | 3.36 | -    | 3.35 | 3.42 | 3.52 | -    | 3.48 | 3.55 | 3.66 | -    | 3.59 | 3.67 | 3.78 | -    | 3.59 | 3.67 | 3.78 | -    | 3.59 | 3.67 | 3.78 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | AMPS                                 | 12.4 | 12.6 | 13.0 | -    | 13.2 | 13.5 | 13.8 | -    | 14.2 | 14.4 | 14.8 | -    | 15.0 | 15.3 | 15.7 | -    | 15.8 | 16.1 | 16.6 | -    | 16.6 | 16.9 | 17.4 | -    | 16.6 | 16.9 | 17.4 | -    | 16.6 | 16.9 | 17.4 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | 1410    | HI PR                                | 235  | 253  | 267  | -    | 264  | 284  | 300  | -    | 300  | 323  | 341  | -    | 342  | 368  | 388  | -    | 384  | 414  | 437  | -    | 425  | 457  | 483  | -    | 425  | 457  | 483  | -    | 425  | 457  | 483  | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | LO PR                                | 113  | 120  | 132  | -    | 120  | 127  | 139  | -    | 124  | 132  | 144  | -    | 131  | 139  | 152  | -    | 137  | 146  | 159  | -    | 142  | 151  | 164  | -    | 142  | 151  | 164  | -    | 142  | 151  | 164  | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | MBh                                  | 38.5 | 39.9 | 43.8 | -    | 37.6 | 39.0 | 42.7 | -    | 36.7 | 38.1 | 41.7 | -    | 35.8 | 37.1 | 40.7 | -    | 34.1 | 35.3 | 38.7 | -    | 31.5 | 32.7 | 35.8 | -    | 31.5 | 32.7 | 35.8 | -    | 31.5 | 32.7 | 35.8 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | S/T                                  | 0.72 | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.43 | -    | 0.77 | 0.64 | 0.45 | -    | 0.79 | 0.66 | 0.46 | -    | 0.83 | 0.69 | 0.48 | -    | 0.83 | 0.69 | 0.48 | -    | 0.83 | 0.69 | 0.48 | -    | 0.83 | 0.69 | 0.48 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | Delta T                              | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 19   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | 1236    | KW                                   | 2.80 | 2.86 | 2.94 | -    | 3.00 | 3.06 | 3.15 | -    | 3.17 | 3.24 | 3.33 | -    | 3.32 | 3.39 | 3.49 | -    | 3.45 | 3.52 | 3.63 | -    | 3.57 | 3.64 | 3.75 | -    | 3.57 | 3.64 | 3.75 | -    | 3.57 | 3.64 | 3.75 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | AMPS                                 | 12.3 | 12.5 | 12.9 | -    | 13.1 | 13.4 | 13.7 | -    | 14.0 | 14.3 | 14.7 | -    | 14.9 | 15.2 | 15.6 | -    | 15.7 | 16.0 | 16.4 | -    | 16.5 | 16.8 | 17.3 | -    | 16.5 | 16.8 | 17.3 | -    | 16.5 | 16.8 | 17.3 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | HI PR                                | 233  | 251  | 265  | -    | 261  | 281  | 297  | -    | 297  | 320  | 338  | -    | 338  | 364  | 385  | -    | 381  | 410  | 433  | -    | 421  | 453  | 478  | -    | 421  | 453  | 478  | -    | 421  | 453  | 478  | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | LO PR                                | 112  | 119  | 130  | -    | 118  | 126  | 138  | -    | 123  | 131  | 143  | -    | 129  | 138  | 150  | -    | 136  | 144  | 157  | -    | 140  | 149  | 163  | -    | 140  | 149  | 163  | -    | 140  | 149  | 163  | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      |         | MBh                                  | 35.6 | 36.9 | 40.4 | -    | 34.7 | 36.0 | 39.4 | -    | 33.9 | 35.1 | 38.5 | -    | 33.1 | 34.3 | 37.6 | -    | 31.4 | 32.6 | 35.7 | -    | 29.1 | 30.2 | 33.1 | -    | 29.1 | 30.2 | 33.1 | -    | 29.1 | 30.2 | 33.1 | -   |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | S/T     | 0.70                                 | 0.58 | 0.40 | -    | 0.72 | 0.60 | 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 | -    | 0.80 | 0.67 | 0.46 | -    | 0.80 | 0.67 | 0.46 | -    |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | Delta T | 18                                   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    | 17   | 15   | 11   | -    |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | KW      | 2.74                                 | 2.80 | 2.88 | -    | 2.93 | 2.99 | 3.08 | -    | 3.10 | 3.16 | 3.26 | -    | 3.25 | 3.31 | 3.41 | -    | 3.37 | 3.44 | 3.55 | -    | 3.48 | 3.55 | 3.66 | -    | 3.48 | 3.55 | 3.66 | -    | 3.48 | 3.55 | 3.66 | -    |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | AMPS    | 12.0                                 | 12.3 | 12.6 | -    | 12.8 | 13.1 | 13.4 | -    | 13.7 | 14.0 | 14.4 | -    | 14.5 | 14.8 | 15.2 | -    | 15.3 | 15.6 | 16.1 | -    | 16.1 | 16.4 | 16.9 | -    | 16.1 | 16.4 | 16.9 | -    | 16.1 | 16.4 | 16.9 | -    |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | HI PR   | 226                                  | 243  | 257  | -    | 253  | 273  | 288  | -    | 288  | 310  | 327  | -    | 328  | 353  | 373  | -    | 369  | 397  | 420  | -    | 408  | 439  | 464  | -    | 408  | 439  | 464  | -    | 408  | 439  | 464  | -    |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |
|      | LO PR   | 109                                  | 116  | 126  | -    | 115  | 122  | 133  | -    | 119  | 127  | 139  | -    | 125  | 133  | 146  | -    | 131  | 140  | 153  | -    | 136  | 145  | 158  | -    | 136  | 145  | 158  | -    | 136  | 145  | 158  | -    |     |  |  |  |  |  |  |  |     |  |  |  |  |  |  |  |

|    |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75 | 1585 | MBh     | 40.4 | 41.6 | 45.0 | 48.3 | 39.4 | 40.6 | 43.9 | 47.2 | 38.5 | 39.6 | 42.9 | 46.0 | 37.5 | 38.7 | 41.8 | 44.9 | 35.7 | 36.7 | 39.7 | 42.7 | 33.0 | 34.0 | 36.8 | 39.5 |
|    |      | S/T     | 0.86 | 0.77 | 0.58 | 0.38 | 0.90 | 0.80 | 0.61 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.98 | 0.88 | 0.67 | 0.43 | 0.99 | 0.89 | 0.67 | 0.43 |
|    |      | 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      | 2.85 | 2.90 | 2.98 | 3.07 | 3.04 | 3.10 | 3.20 | 3.29 | 3.22 | 3.29 | 3.38 | 3.49 | 3.38 | 3.44 | 3.55 | 3.66 | 3.51 | 3.58 | 3.69 | 3.81 | 3.62 | 3.70 | 3.81 | 3.93 |
|    |      | AMPS    | 12.5 | 12.7 | 13.1 | 13.5 | 13.3 | 13.6 | 13.9 | 14.4 | 14.3 | 14.6 | 15.0 | 15.4 | 15.1 | 15.4 | 15.8 | 16.4 | 15.9 | 16.2 | 16.7 | 17.3 | 16.7 | 17.1 | 17.6 | 18.2 |
|    | 1410 | HI PR   | 238  | 256  | 270  | 282  | 267  | 287  | 303  | 316  | 303  | 326  | 344  | 359  | 345  | 372  | 392  | 409  | 388  | 418  | 441  | 460  | 429  | 462  | 488  | 509  |
|    |      | LO PR   | 114  | 122  | 133  | 141  | 121  | 129  | 140  | 149  | 126  | 134  | 146  | 155  | 132  | 140  | 153  | 163  | 138  | 147  | 161  | 171  | 143  | 152  | 166  | 177  |
|    |      | MBh     | 39.2 | 40.3 | 43.7 | 46.9 | 38.3 | 39.4 | 42.7 | 45.8 | 37.4 | 38.5 | 41.6 | 44.7 | 36.5 | 37.5 | 40.6 | 43.6 | 34.6 | 35.7 | 38.6 | 41.4 | 32.1 | 33.0 | 35.7 | 38.4 |
|    |      | S/T     | 0.82 | 0.74 | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.88 | 0.78 | 0.59 | 0.38 | 0.90 | 0.81 | 0.61 | 0.39 | 0.94 | 0.84 | 0.63 | 0.41 | 0.95 | 0.85 | 0.64 | 0.41 |
|    |      | Delta T | 21   | 19   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 21   | 20   | 16   | 11   | 20   | 18   | 15   | 10   |
|    | 1236 | KW      | 2.82 | 2.88 | 2.96 | 3.05 | 3.02 | 3.08 | 3.17 | 3.27 | 3.20 | 3.26 | 3.36 | 3.46 | 3.35 | 3.42 | 3.52 | 3.63 | 3.48 | 3.55 | 3.66 | 3.78 | 3.59 | 3.67 | 3.78 | 3.90 |
|    |      | AMPS    | 12.4 | 12.6 | 13.0 | 13.4 | 13.2 | 13.5 | 13.8 | 14.3 | 14.2 | 14.4 | 14.8 | 15.3 | 15.0 | 15.3 | 15.7 | 16.2 | 15.8 | 16.1 | 16.6 | 17.1 | 16.6 | 16.9 | 17.4 | 18.0 |
|    |      | HI PR   | 235  | 253  | 267  | 279  | 264  | 284  | 300  | 313  | 300  | 323  | 341  | 356  | 342  | 368  | 388  | 405  | 385  | 414  | 437  | 456  | 425  | 457  | 483  | 504  |
|    |      | LO PR   | 113  | 120  | 132  | 140  | 120  | 127  | 139  | 148  | 124  | 132  | 144  | 154  | 131  | 139  | 152  | 162  | 137  | 146  | 159  | 169  | 142  | 151  | 164  | 175  |
|    |      | MBh     | 36.2 | 37.2 | 40.3 | 43.3 | 35.3 | 36.4 | 39.4 | 42.3 | 34.5 | 35.5 | 38.4 | 41.2 | 33.6 | 34.6 | 37.5 | 40.2 | 32.0 | 32.9 | 35.6 | 38.2 | 29.6 | 30.5 | 33.0 | 35.4 |

\* IDB: Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.



MODEL: GPH1342H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|       |         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      | Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      | Indoor Dry Bulb Temperature |      |      |      |      |      |      |      |      |  |
|-------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|-----------------------------|------|------|------|------|------|------|------|------|------|-----------------------------|------|------|------|------|------|------|------|------|--|
|       |         | 65                          |      |      |      |      | 75   |      |      |      |      | 85                          |      |      |      |      | 95   |      |      |      |      | 105                         |      |      |      |      | 115  |      |      |      |  |
| 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   | 59   | 63   | 67   | 71   |      |  |
| 80    | 1585    | MBh                         | 41.1 | 42.0 | 44.8 | 47.9 | 40.1 | 41.0 | 43.8 | 46.8 | 39.2 | 40.0                        | 42.8 | 45.7 | 38.2 | 39.0 | 41.7 | 44.6 | 36.3 | 37.1 | 39.6 | 42.4                        | 33.6 | 34.4 | 36.7 | 39.2 | 33.6 | 34.4 | 36.7 | 39.2 |  |
|       |         | S/T                         | 0.95 | 0.89 | 0.72 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.94                        | 0.77 | 0.57 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.82 | 0.62                        | 1.00 | 1.00 | 0.83 | 0.62 | 1.00 | 1.00 | 0.83 | 0.62 |  |
|       |         | Delta T                     | 23   | 22   | 19   | 15   | 23   | 22   | 19   | 15   | 23   | 22                          | 19   | 15   | 22   | 23   | 19   | 15   | 21   | 22   | 19   | 15                          | 20   | 20   | 18   | 14   | 20   | 20   | 18   | 14   |  |
|       |         | KW                          | 2.87 | 2.92 | 3.01 | 3.09 | 3.07 | 3.13 | 3.22 | 3.32 | 3.24 | 3.31                        | 3.41 | 3.52 | 3.40 | 3.47 | 3.58 | 3.69 | 3.54 | 3.61 | 3.72 | 3.84                        | 3.65 | 3.73 | 3.84 | 3.96 | 3.65 | 3.73 | 3.84 | 3.96 |  |
|       |         | AMPS                        | 12.6 | 12.8 | 13.2 | 13.6 | 13.4 | 13.7 | 14.1 | 14.5 | 14.4 | 14.7                        | 15.1 | 15.6 | 15.2 | 15.5 | 16.0 | 16.5 | 16.0 | 16.4 | 16.8 | 17.4                        | 16.9 | 17.2 | 17.7 | 18.3 | 16.9 | 17.2 | 17.7 | 18.3 |  |
|       | 1410    | HI PR                       | 240  | 258  | 273  | 284  | 269  | 290  | 306  | 319  | 306  | 329                         | 348  | 363  | 349  | 375  | 396  | 413  | 392  | 422  | 446  | 465                         | 433  | 466  | 493  | 514  | 433  | 466  | 493  | 514  |  |
|       |         | LO PR                       | 116  | 123  | 134  | 143  | 122  | 130  | 142  | 151  | 127  | 135                         | 147  | 157  | 133  | 142  | 155  | 165  | 140  | 149  | 162  | 173                         | 144  | 154  | 168  | 179  | 144  | 154  | 168  | 179  |  |
|       |         | MBh                         | 39.9 | 40.8 | 43.5 | 46.5 | 39.0 | 39.8 | 42.5 | 45.5 | 38.0 | 38.9                        | 41.5 | 44.4 | 37.1 | 37.9 | 40.5 | 43.3 | 35.2 | 36.0 | 38.5 | 41.1                        | 32.6 | 33.4 | 35.6 | 38.1 | 32.6 | 33.4 | 35.6 | 38.1 |  |
|       |         | S/T                         | 0.90 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.71 | 0.53 | 0.96 | 0.90                        | 0.73 | 0.55 | 0.99 | 0.93 | 0.76 | 0.57 | 1.00 | 0.96 | 0.79 | 0.59                        | 1.00 | 0.97 | 0.79 | 0.59 | 1.00 | 0.97 | 0.79 | 0.59 |  |
|       |         | Delta T                     | 23   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23                          | 20   | 16   | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16                          | 21   | 21   | 18   | 15   | 21   | 21   | 18   | 15   |  |
| 1236  | 1410    | KW                          | 2.85 | 2.90 | 2.98 | 3.07 | 3.04 | 3.10 | 3.20 | 3.29 | 3.22 | 3.29                        | 3.38 | 3.49 | 3.38 | 3.45 | 3.55 | 3.66 | 3.51 | 3.58 | 3.69 | 3.81                        | 3.62 | 3.70 | 3.81 | 3.93 | 3.62 | 3.70 | 3.81 | 3.93 |  |
|       |         | AMPS                        | 12.5 | 12.7 | 13.1 | 13.5 | 13.3 | 13.6 | 14.0 | 14.4 | 14.3 | 14.6                        | 15.0 | 15.4 | 15.1 | 15.4 | 15.8 | 16.4 | 15.9 | 16.2 | 16.7 | 17.3                        | 16.7 | 17.1 | 17.6 | 18.2 | 16.7 | 17.1 | 17.6 | 18.2 |  |
|       |         | HI PR                       | 238  | 256  | 270  | 282  | 267  | 287  | 303  | 316  | 303  | 326                         | 344  | 359  | 345  | 372  | 392  | 409  | 388  | 418  | 441  | 460                         | 429  | 462  | 488  | 509  | 429  | 462  | 488  | 509  |  |
|       |         | LO PR                       | 114  | 122  | 133  | 142  | 121  | 129  | 140  | 150  | 126  | 134                         | 146  | 155  | 132  | 140  | 153  | 163  | 138  | 147  | 161  | 171                         | 143  | 152  | 166  | 177  | 143  | 152  | 166  | 177  |  |
|       |         | MBh                         | 36.8 | 37.6 | 40.2 | 43.0 | 36.0 | 36.7 | 39.3 | 42.0 | 35.1 | 35.9                        | 38.3 | 41.0 | 34.2 | 35.0 | 37.4 | 40.0 | 32.5 | 33.2 | 35.5 | 38.0                        | 30.1 | 30.8 | 32.9 | 35.2 | 30.1 | 30.8 | 32.9 | 35.2 |  |
|       | 1236    | S/T                         | 0.87 | 0.82 | 0.66 | 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 | 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   | 21   | 19   | 15   | 22   | 21   | 19   | 15   |  |
|       |         | KW                          | 2.78 | 2.84 | 2.92 | 3.00 | 2.98 | 3.04 | 3.12 | 3.22 | 3.15 | 3.21                        | 3.31 | 3.41 | 3.30 | 3.37 | 3.47 | 3.57 | 3.43 | 3.50 | 3.60 | 3.72                        | 3.54 | 3.61 | 3.72 | 3.84 | 3.54 | 3.61 | 3.72 | 3.84 |  |
|       |         | AMPS                        | 12.2 | 12.5 | 12.8 | 13.2 | 13.0 | 13.3 | 13.6 | 14.1 | 13.9 | 14.2                        | 14.6 | 15.1 | 14.7 | 15.0 | 15.5 | 16.0 | 15.5 | 15.9 | 16.3 | 16.8                        | 16.3 | 16.7 | 17.2 | 17.7 | 16.3 | 16.7 | 17.2 | 17.7 |  |
|       |         | HI PR                       | 230  | 248  | 262  | 273  | 259  | 278  | 294  | 306  | 294  | 316                         | 334  | 349  | 335  | 360  | 381  | 397  | 377  | 405  | 428  | 447                         | 416  | 448  | 473  | 493  | 416  | 448  | 473  | 493  |  |
| LO PR | 111     | 118                         | 129  | 137  | 117  | 125  | 136  | 145  | 122  | 130  | 142  | 151                         | 128  | 136  | 149  | 158  | 134  | 143  | 156  | 166  | 139  | 148                         | 161  | 172  | 139  | 148  | 161  | 172  |      |      |  |

|      |         |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85   | 1585    | MBh     | 41.8 | 42.6 | 44.6 | 47.6 | 40.8 | 41.6 | 43.6 | 46.5 | 39.9 | 40.6 | 42.5 | 45.4 | 38.9 | 39.6 | 41.5 | 44.3 | 36.9 | 37.6 | 39.4 | 42.1 | 34.2 | 34.9 | 36.5 | 39.0 |
|      |         | S/T     | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.92 | 0.75 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.98 | 0.80 | 1.00 | 1.00 | 0.99 | 0.81 |
|      |         | Delta T | 24   | 24   | 22   | 19   | 24   | 24   | 23   | 20   | 23   | 24   | 23   | 20   | 23   | 23   | 23   | 20   | 21   | 22   | 23   | 19   | 20   | 20   | 21   | 18   |
|      |         | KW      | 2.89 | 2.94 | 3.03 | 3.12 | 3.09 | 3.15 | 3.24 | 3.34 | 3.27 | 3.34 | 3.44 | 3.54 | 3.43 | 3.50 | 3.61 | 3.72 | 3.56 | 3.64 | 3.75 | 3.87 | 3.68 | 3.76 | 3.87 | 4.00 |
|      |         | AMPS    | 12.7 | 12.9 | 13.3 | 13.7 | 13.5 | 13.8 | 14.2 | 14.6 | 14.5 | 14.8 | 15.2 | 15.7 | 15.3 | 15.6 | 16.1 | 16.6 | 16.2 | 16.5 | 17.0 | 17.5 | 17.0 | 17.4 | 17.9 | 18.5 |
|      | HI PR   | 242     | 261  | 275  | 287  | 272  | 293  | 309  | 322  | 309  | 333  | 351  | 367  | 352  | 379  | 400  | 417  | 396  | 426  | 450  | 470  | 438  | 471  | 497  | 519  |      |
|      | LO PR   | 117     | 124  | 136  | 144  | 123  | 131  | 143  | 153  | 128  | 136  | 149  | 159  | 135  | 143  | 156  | 166  | 141  | 150  | 164  | 174  | 146  | 155  | 169  | 180  |      |
|      | 1410    | MBh     | 40.6 | 41.4 | 43.3 | 46.2 | 39.6 | 40.4 | 42.3 | 45.1 | 38.7 | 39.4 | 41.3 | 44.1 | 37.7 | 38.5 | 40.3 | 43.0 | 35.9 | 36.6 | 38.3 | 40.8 | 33.2 | 33.9 | 35.5 | 37.8 |
|      |         | S/T     | 0.95 | 0.91 | 0.82 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.95 | 0.77 |
|      |         | Delta T | 25   | 25   | 23   | 20   | 25   | 25   | 24   | 20   | 25   | 25   | 24   | 20   | 25   | 25   | 24   | 21   | 23   | 24   | 23   | 20   | 22   | 22   | 22   | 19   |
| KW   |         | 2.87    | 2.92 | 3.01 | 3.09 | 3.07 | 3.13 | 3.22 | 3.32 | 3.24 | 3.24 | 3.31 | 3.41 | 3.52 | 3.40 | 3.47 | 3.58 | 3.69 | 3.54 | 3.61 | 3.72 | 3.84 | 3.65 | 3.73 | 3.84 | 3.96 |
| AMPS |         | 12.6    | 12.8 | 13.2 | 13.6 | 13.4 | 13.7 | 14.1 | 14.5 | 14.4 | 14.7 | 15.1 | 15.6 | 15.2 | 15.5 | 16.0 | 16.5 | 16.0 | 16.4 | 16.8 | 17.4 | 16.9 | 17.2 | 17.7 | 18.3 |      |
| 1236 | HI PR   | 240     | 258  | 273  | 284  | 269  | 290  | 306  | 319  | 306  | 329  | 348  | 363  | 349  | 375  | 396  | 413  | 392  | 422  | 446  | 465  | 433  | 466  | 493  | 514  |      |
|      | LO PR   | 116     | 123  | 134  | 143  | 122  | 130  | 142  | 151  | 127  | 135  | 147  | 157  | 133  | 142  | 155  | 165  | 140  | 149  | 162  | 173  | 144  | 154  | 168  | 179  |      |
|      | MBh     | 37.5    | 38.2 | 40.0 | 42.7 | 36.6 | 37.3 | 39.1 | 41.7 | 35.7 | 36.4 | 38.1 | 40.7 | 34.8 | 35.5 | 37.2 | 39.7 | 33.1 | 33.7 | 35.3 | 37.7 | 30.7 | 31.3 | 32.7 | 34.9 |      |
|      | 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 | 0.73 | 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   |      |

\* Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
NOTE: Shaded area is AHRI Rating Conditions  
KW = Total system power  
AMPS: Unit amps (comp. + evaporator + condenser fan motors)

COOLING PERFORMANCE DATA

GPH1348H41\*\*

MODEL: GPH1348H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

|      |         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |    |     |    |    |   |  |
|------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|----|-----|----|----|---|--|
|      |         | 65                          |      |      |      |      | 75   |      |      |      |      | 85   |      |      |      |      | 95   |      |      |      |      | 105  |      |      |      |    | 115 |    |    |   |  |
| 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   | 59 | 63  | 67 | 71 |   |  |
| 70   | 1800    | MBh                         | 45.1 | 46.7 | 51.2 | -    | 44.0 | 45.6 | 50.0 | -    | 43.0 | 44.5 | 48.8 | -    | 41.9 | 43.5 | 47.6 | -    | 39.8 | 41.3 | 45.2 | -    | 36.9 | 38.2 | 41.9 | -  | -   | -  | -  | - |  |
|      |         | S/T                         | 0.78 | 0.65 | 0.45 | -    | 0.81 | 0.67 | 0.47 | -    | 0.83 | 0.69 | 0.48 | -    | 0.85 | 0.71 | 0.49 | -    | 0.89 | 0.74 | 0.51 | -    | 0.89 | 0.75 | 0.52 | -  | -   | -  | -  | - |  |
|      |         | Delta T                     | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 18   | 16   | 12   | -    | 17   | 15   | 11   | -  | -   | -  | -  | - |  |
|      |         | KW                          | 3.09 | 3.15 | 3.24 | -    | 3.31 | 3.37 | 3.47 | -    | 3.50 | 3.57 | 3.67 | -    | 3.66 | 3.74 | 3.85 | -    | 3.81 | 3.88 | 4.00 | -    | 3.93 | 4.01 | 4.13 | -  | -   | -  | -  | - |  |
|      |         | AMPS                        | 13.6 | 13.8 | 14.2 | -    | 14.5 | 14.7 | 15.1 | -    | 15.5 | 15.8 | 16.2 | -    | 16.4 | 16.7 | 17.2 | -    | 17.2 | 17.6 | 18.1 | -    | 18.1 | 18.5 | 19.0 | -  | -   | -  | -  | - |  |
|      | 1600    | HI PR                       | 228  | 245  | 259  | -    | 256  | 275  | 290  | -    | 291  | 313  | 330  | -    | 331  | 356  | 376  | -    | 372  | 401  | 423  | -    | 411  | 443  | 468  | -  | -   | -  | -  | - |  |
|      |         | LO PR                       | 109  | 116  | 127  | -    | 116  | 123  | 134  | -    | 120  | 128  | 139  | -    | 126  | 134  | 146  | -    | 132  | 141  | 154  | -    | 137  | 145  | 159  | -  | -   | -  | -  | - |  |
|      |         | MBh                         | 43.8 | 45.4 | 49.7 | -    | 42.7 | 44.3 | 48.5 | -    | 41.7 | 43.2 | 47.4 | -    | 40.7 | 42.2 | 46.2 | -    | 38.7 | 40.1 | 43.9 | -    | 35.8 | 37.1 | 40.7 | -  | -   | -  | -  | - |  |
|      |         | S/T                         | 0.74 | 0.62 | 0.43 | -    | 0.77 | 0.64 | 0.45 | -    | 0.79 | 0.66 | 0.46 | -    | 0.81 | 0.68 | 0.47 | -    | 0.85 | 0.71 | 0.49 | -    | 0.85 | 0.71 | 0.49 | -  | -   | -  | -  | - |  |
|      |         | Delta T                     | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 13   | -    | 19   | 16   | 12   | -    | 18   | 15   | 12   | -  | -   | -  | -  | - |  |
| 1400 | KW      | 3.07                        | 3.13 | 3.22 | -    | 3.28 | 3.35 | 3.44 | -    | 3.47 | 3.54 | 3.64 | -    | 3.64 | 3.71 | 3.82 | -    | 3.78 | 3.85 | 3.97 | -    | 3.90 | 3.98 | 4.10 | -    | -  | -   | -  | -  |   |  |
|      | AMPS    | 13.5                        | 13.7 | 14.1 | -    | 14.4 | 14.6 | 15.0 | -    | 15.4 | 15.7 | 16.1 | -    | 16.2 | 16.6 | 17.0 | -    | 17.1 | 17.5 | 18.0 | -    | 18.0 | 18.3 | 18.9 | -    | -  | -   | -  | -  |   |  |
|      | HI PR   | 225                         | 243  | 256  | -    | 253  | 272  | 287  | -    | 288  | 310  | 327  | -    | 328  | 353  | 372  | -    | 369  | 397  | 419  | -    | 407  | 438  | 463  | -    | -  | -   | -  | -  |   |  |
|      | LO PR   | 108                         | 115  | 126  | -    | 114  | 122  | 133  | -    | 119  | 126  | 138  | -    | 125  | 133  | 145  | -    | 131  | 139  | 152  | -    | 135  | 144  | 157  | -    | -  | -   | -  | -  |   |  |
|      | MBh     | 40.4                        | 41.9 | 45.9 | -    | 39.5 | 40.9 | 44.8 | -    | 38.5 | 39.9 | 43.7 | -    | 37.6 | 38.9 | 42.7 | -    | 35.7 | 37.0 | 40.5 | -    | 33.1 | 34.3 | 37.5 | -    | -  | -   | -  | -  |   |  |
|      | S/T     | 0.72                        | 0.60 | 0.41 | -    | 0.74 | 0.62 | 0.43 | -    | 0.76 | 0.64 | 0.44 | -    | 0.79 | 0.66 | 0.45 | -    | 0.82 | 0.68 | 0.47 | -    | 0.82 | 0.69 | 0.48 | -    | -  | -   | -  | -  |   |  |
|      | Delta T | 19                          | 16   | 12   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 19   | 17   | 13   | -    | 18   | 15   | 12   | -    | -  | -   | -  | -  |   |  |
|      | KW      | 3.01                        | 3.06 | 3.15 | -    | 3.21 | 3.27 | 3.37 | -    | 3.39 | 3.46 | 3.56 | -    | 3.55 | 3.62 | 3.73 | -    | 3.69 | 3.76 | 3.88 | -    | 3.81 | 3.89 | 4.00 | -    | -  | -   | -  | -  |   |  |
|      | AMPS    | 13.2                        | 13.4 | 13.8 | -    | 14.0 | 14.3 | 14.7 | -    | 15.0 | 15.3 | 15.7 | -    | 15.9 | 16.2 | 16.6 | -    | 16.7 | 17.1 | 17.5 | -    | 17.5 | 17.9 | 18.4 | -    | -  | -   | -  | -  |   |  |
|      | HI PR   | 219                         | 235  | 249  | -    | 245  | 264  | 279  | -    | 279  | 300  | 317  | -    | 318  | 342  | 361  | -    | 358  | 385  | 406  | -    | 395  | 425  | 449  | -    | -  | -   | -  | -  |   |  |
|      | LO PR   | 105                         | 112  | 122  | -    | 111  | 118  | 129  | -    | 115  | 123  | 134  | -    | 121  | 129  | 141  | -    | 127  | 135  | 147  | -    | 131  | 140  | 153  | -    | -  | -   | -  | -  |   |  |

|    |      |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|----|------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 75 | 1800 | MBh     | 45.8 | 47.2 | 51.1 | 54.8 | 44.8 | 46.1 | 49.9 | 53.6 | 43.7 | 45.0 | 48.7 | 52.3 | 42.6 | 43.9 | 47.5 | 51.0 | 40.5 | 41.7 | 45.1 | 48.5 | 37.5 | 38.6 | 41.8 | 44.9 |
|    |      | S/T     | 0.88 | 0.79 | 0.60 | 0.39 | 0.92 | 0.82 | 0.62 | 0.40 | 0.94 | 0.84 | 0.64 | 0.41 | 0.97 | 0.87 | 0.66 | 0.42 | 1.00 | 0.90 | 0.68 | 0.44 | 1.00 | 0.91 | 0.69 | 0.44 |
|    |      | 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      | 3.12 | 3.18 | 3.27 | 3.36 | 3.33 | 3.40 | 3.50 | 3.60 | 3.52 | 3.59 | 3.70 | 3.81 | 3.69 | 3.77 | 3.88 | 4.00 | 3.84 | 3.91 | 4.03 | 4.16 | 3.96 | 4.04 | 4.17 | 4.30 |
|    |      | AMPS    | 13.7 | 13.9 | 14.3 | 14.7 | 14.6 | 14.9 | 15.3 | 15.7 | 15.6 | 15.9 | 16.4 | 16.9 | 16.5 | 16.8 | 17.3 | 17.9 | 17.4 | 17.7 | 18.2 | 18.8 | 18.3 | 18.6 | 19.2 | 19.8 |
|    | 1600 | HI PR   | 230  | 248  | 261  | 273  | 258  | 278  | 293  | 306  | 294  | 316  | 334  | 348  | 334  | 360  | 380  | 396  | 376  | 405  | 427  | 446  | 416  | 447  | 472  | 493  |
|    |      | LO PR   | 110  | 118  | 128  | 137  | 117  | 124  | 136  | 144  | 121  | 129  | 141  | 150  | 127  | 136  | 148  | 158  | 134  | 142  | 155  | 165  | 138  | 147  | 160  | 171  |
|    |      | MBh     | 44.5 | 45.8 | 49.6 | 53.2 | 43.5 | 44.8 | 48.4 | 52.0 | 42.4 | 43.7 | 47.3 | 50.8 | 41.4 | 42.6 | 46.1 | 49.5 | 39.3 | 40.5 | 43.8 | 47.0 | 36.4 | 37.5 | 40.6 | 43.6 |
|    |      | S/T     | 0.84 | 0.75 | 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 | 0.40 | 0.96 | 0.86 | 0.65 | 0.42 | 0.97 | 0.87 | 0.66 | 0.42 |
|    |      | 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   |
| 75 | 1600 | KW      | 3.09 | 3.15 | 3.24 | 3.34 | 3.31 | 3.37 | 3.47 | 3.57 | 3.50 | 3.57 | 3.67 | 3.78 | 3.66 | 3.74 | 3.85 | 3.97 | 3.81 | 3.88 | 4.00 | 4.13 | 3.93 | 4.01 | 4.13 | 4.26 |
|    |      | AMPS    | 13.6 | 13.8 | 14.2 | 14.6 | 14.5 | 14.7 | 15.1 | 15.6 | 15.5 | 15.8 | 16.2 | 16.7 | 16.4 | 16.7 | 17.2 | 17.7 | 17.2 | 17.6 | 18.1 | 18.7 | 18.1 | 18.5 | 19.0 | 19.6 |
|    |      | HI PR   | 228  | 245  | 259  | 270  | 256  | 275  | 290  | 303  | 291  | 313  | 330  | 345  | 331  | 356  | 376  | 392  | 372  | 401  | 423  | 441  | 412  | 443  | 468  | 488  |
|    |      | LO PR   | 109  | 116  | 127  | 135  | 116  | 123  | 134  | 143  | 120  | 128  | 139  | 149  | 126  | 134  | 147  | 156  | 132  | 141  | 154  | 164  | 137  | 145  | 159  | 169  |
|    |      | MBh     | 41.1 | 42.3 | 45.8 | 49.1 | 40.1 | 41.3 | 44.7 | 48.0 | 39.2 | 40.3 | 43.7 | 46.8 | 38.2 | 39.3 | 42.6 | 45.7 | 36.3 | 37.4 | 40.5 | 43.4 | 33.6 | 34.6 | 37.5 | 40.2 |
|    | 1400 | S/T     | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.86 | 0.77 | 0.59 | 0.38 | 0.89 | 0.80 | 0.60 | 0.39 | 0.93 | 0.83 | 0.63 | 0.40 | 0.93 | 0.84 | 0.63 | 0.41 |
|    |      | 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      | 3.03 | 3.08 | 3.17 | 3.26 | 3.23 | 3.30 | 3.39 | 3.49 | 3.42 | 3.49 | 3.59 | 3.70 | 3.58 | 3.65 | 3.76 | 3.88 | 3.72 | 3.79 | 3.91 | 4.03 | 3.84 | 3.92 | 4.04 | 4.16 |
|    |      | AMPS    | 13.3 | 13.5 | 13.9 | 14.3 | 14.1 | 14.4 | 14.8 | 15.3 | 15.1 | 15.4 | 15.9 | 16.4 | 16.0 | 16.3 | 16.8 | 17.3 | 16.8 | 17.2 | 17.7 | 18.2 | 17.7 | 18.0 | 18.6 | 19.2 |
|    |      | HI PR   | 221  | 238  | 251  | 262  | 248  | 267  | 282  | 294  | 282  | 303  | 320  | 334  | 321  | 346  | 365  | 381  | 361  | 389  | 411  | 428  | 399  | 430  | 454  | 473  |
|    |      | LO PR   | 106  | 113  | 123  | 131  | 112  | 119  | 130  | 139  | 116  | 124  | 135  | 144  | 122  | 130  | 142  | 151  | 128  | 136  | 149  | 159  | 133  | 141  | 154  | 164  |

\* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is ACCA (TVA) conditions

High and low pressures are measured at the liquid and suction access fittings.

## COOLING OPERATION

## Outdoor Ambient Temperature

|       |         |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-------|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 85    | 1800    | MBh     | 47.5 | 48.4 | 50.7 | 54.1 | 46.4 | 47.3 | 49.5 | 52.8 | 45.3 | 46.1 | 48.3 | 51.6 | 44.2 | 45.0 | 47.1 | 50.3 | 42.0 | 42.8 | 44.8 | 47.8 | 38.9 | 39.6 | 41.5 | 44.3 |
|       |         | S/T     | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 1.00 | 0.92 | 0.74 | 1.00 | 1.00 | 0.94 | 0.76 | 1.00 | 1.00 | 0.97 | 0.79 | 1.00 | 1.00 | 1.00 | 0.82 | 1.00 | 1.00 | 1.00 | 0.83 |
|       |         | Delta T | 24   | 24   | 23   | 20   | 24   | 24   | 23   | 20   | 23   | 24   | 23   | 20   | 23   | 23   | 23   | 20   | 21   | 22   | 23   | 20   | 20   | 20   | 21   | 19   |
|       |         | KW      | 3.16 | 3.22 | 3.31 | 3.41 | 3.38 | 3.45 | 3.55 | 3.66 | 3.58 | 3.65 | 3.76 | 3.87 | 3.75 | 3.82 | 3.94 | 4.06 | 3.89 | 3.98 | 4.10 | 4.23 | 4.02 | 4.10 | 4.23 | 4.37 |
|       |         | AMPS    | 13.9 | 14.2 | 14.5 | 15.0 | 14.8 | 15.1 | 15.5 | 16.0 | 15.8 | 16.2 | 16.6 | 17.1 | 16.7 | 17.1 | 17.6 | 18.1 | 17.7 | 18.0 | 18.5 | 19.1 | 18.5 | 18.9 | 19.5 | 20.1 |
|       |         | HI PR   | 235  | 253  | 267  | 278  | 263  | 283  | 299  | 312  | 300  | 322  | 340  | 355  | 341  | 367  | 388  | 404  | 384  | 413  | 436  | 455  | 424  | 456  | 482  | 503  |
|       |         | LO PR   | 113  | 120  | 131  | 139  | 119  | 127  | 138  | 147  | 124  | 132  | 144  | 153  | 130  | 138  | 151  | 161  | 136  | 145  | 158  | 169  | 141  | 150  | 164  | 174  |
|       |         | MBh     | 46.1 | 47.0 | 49.2 | 52.5 | 45.0 | 45.9 | 48.1 | 51.3 | 43.9 | 44.8 | 46.9 | 50.1 | 42.9 | 43.7 | 45.8 | 48.8 | 40.7 | 41.5 | 43.5 | 46.4 | 37.7 | 38.5 | 40.3 | 43.0 |
|       |         | S/T     | 0.97 | 0.94 | 0.84 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.93 | 0.75 | 1.00 | 1.00 | 0.96 | 0.78 | 1.00 | 1.00 | 0.97 | 0.79 |
|       |         | Delta T | 26   | 25   | 24   | 21   | 26   | 26   | 24   | 21   | 25   | 26   | 24   | 21   | 25   | 25   | 24   | 21   | 23   | 24   | 24   | 21   | 22   | 22   | 22   | 19   |
| 1600  | KW      | 3.14    | 3.20 | 3.29 | 3.39 | 3.36 | 3.42 | 3.52 | 3.63 | 3.55 | 3.62 | 3.73 | 3.84 | 3.72 | 3.80 | 3.91 | 4.03 | 3.86 | 3.94 | 4.07 | 4.19 | 3.99 | 4.07 | 4.20 | 4.33 |      |
|       | AMPS    | 13.8    | 14.0 | 14.4 | 14.9 | 14.7 | 15.0 | 15.4 | 15.9 | 15.7 | 16.0 | 16.5 | 17.0 | 16.6 | 17.0 | 17.4 | 18.0 | 17.5 | 17.9 | 18.4 | 19.0 | 18.4 | 18.8 | 19.3 | 20.0 |      |
|       | HI PR   | 232     | 250  | 264  | 275  | 261  | 281  | 296  | 309  | 297  | 319  | 337  | 351  | 338  | 363  | 384  | 400  | 380  | 409  | 432  | 450  | 420  | 452  | 477  | 498  |      |
|       | LO PR   | 112     | 119  | 130  | 138  | 118  | 125  | 137  | 146  | 123  | 130  | 142  | 152  | 129  | 137  | 149  | 159  | 135  | 143  | 157  | 167  | 140  | 148  | 162  | 173  |      |
|       | MBh     | 42.5    | 43.4 | 45.4 | 48.5 | 41.5 | 42.4 | 44.4 | 47.3 | 40.6 | 41.3 | 43.3 | 46.2 | 39.6 | 40.3 | 42.2 | 45.1 | 37.6 | 38.3 | 40.1 | 42.8 | 34.8 | 35.5 | 37.2 | 39.7 |      |
|       | S/T     | 0.94    | 0.90 | 0.81 | 0.66 | 0.97 | 0.94 | 0.84 | 0.69 | 0.99 | 0.96 | 0.87 | 0.70 | 1.00 | 0.99 | 0.89 | 0.73 | 1.00 | 1.00 | 0.93 | 0.75 | 1.00 | 1.00 | 0.94 | 0.76 |      |
|       | Delta T | 26      | 26   | 24   | 21   | 26   | 26   | 25   | 21   | 26   | 26   | 25   | 21   | 26   | 26   | 25   | 21   | 25   | 25   | 24   | 21   | 23   | 23   | 23   | 20   |      |
|       | KW      | 3.07    | 3.13 | 3.22 | 3.31 | 3.28 | 3.35 | 3.44 | 3.55 | 3.47 | 3.54 | 3.64 | 3.75 | 3.63 | 3.71 | 3.82 | 3.94 | 3.78 | 3.85 | 3.97 | 4.09 | 3.90 | 3.98 | 4.10 | 4.23 |      |
|       | AMPS    | 13.5    | 13.7 | 14.1 | 14.5 | 14.4 | 14.6 | 15.0 | 15.5 | 15.4 | 15.7 | 16.1 | 16.6 | 16.2 | 16.6 | 17.0 | 17.6 | 17.1 | 17.5 | 18.0 | 18.5 | 18.0 | 18.3 | 18.9 | 19.5 |      |
|       | HI PR   | 225     | 243  | 256  | 267  | 253  | 272  | 287  | 300  | 288  | 310  | 327  | 341  | 328  | 353  | 372  | 388  | 369  | 397  | 419  | 437  | 407  | 438  | 463  | 483  |      |
| LO PR | 108     | 115     | 126  | 134  | 114  | 122  | 133  | 141  | 119  | 126  | 138  | 147  | 125  | 133  | 145  | 154  | 131  | 139  | 152  | 162  | 135  | 144  | 157  | 167  |      |      |
| 1400  |         |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |

AMPS: Unit amps (comp. + evaporator + condenser fan motors)



COOLING PERFORMANCE DATA

GPH1360H41\*\*

MODEL: GPH1360H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| IDB*    Airflow |      |         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |  |  |
|-----------------|------|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|--|--|
|                 |      |         | 65                          |      |      |      |      | 75   |      |      |      |      | 85   |      |      |      |      | 95   |      |      |      |      | 105  |      |      |      |      | 115  |      |      |  |  |
|                 |      |         | 59                          | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   | 59   | 63   | 67   | 71   |  |  |
|                 | 2079 | MBh     | 56.3                        | 58.4 | 64.0 | -    | 55.0 | 57.0 | 62.5 | -    | 53.7 | 55.7 | 61.0 | -    | 52.4 | 54.3 | 59.5 | -    | 49.8 | 51.6 | 56.5 | -    | 46.1 | 47.8 | 52.4 | -    |      |      |      |      |  |  |
|                 |      | S/T     | 0.75                        | 0.62 | 0.43 | -    | 0.77 | 0.65 | 0.45 | -    | 0.79 | 0.66 | 0.46 | -    | 0.82 | 0.68 | 0.47 | -    | 0.85 | 0.71 | 0.49 | -    | 0.86 | 0.71 | 0.50 | -    |      |      |      |      |  |  |
|                 |      | Delta T | 19                          | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 19   | 16   | 12   | -    | 17   | 15   | 11   | -    |      |      |      |      |  |  |
|                 |      | KW      | 3.85                        | 3.93 | 4.06 | -    | 4.15 | 4.24 | 4.37 | -    | 4.41 | 4.50 | 4.65 | -    | 4.64 | 4.74 | 4.89 | -    | 4.83 | 4.94 | 5.10 | -    | 5.00 | 5.11 | 5.28 | -    |      |      |      |      |  |  |
|                 |      | AMPS    | 16.2                        | 16.5 | 17.0 | -    | 17.4 | 17.7 | 18.3 | -    | 18.7 | 19.1 | 19.7 | -    | 19.9 | 20.3 | 20.9 | -    | 21.0 | 21.5 | 22.2 | -    | 22.2 | 22.7 | 23.4 | -    |      |      |      |      |  |  |
|                 |      | HI PR   | 233                         | 250  | 264  | -    | 261  | 281  | 296  | -    | 297  | 319  | 337  | -    | 338  | 364  | 384  | -    | 380  | 409  | 432  | -    | 420  | 452  | 477  | -    |      |      |      |      |  |  |
|                 |      | LO PR   | 107                         | 114  | 124  | -    | 113  | 120  | 131  | -    | 118  | 125  | 137  | -    | 124  | 131  | 144  | -    | 130  | 138  | 150  | -    | 134  | 143  | 156  | -    |      |      |      |      |  |  |
|                 |      | MBh     | 54.7                        | 56.7 | 62.1 | -    | 53.4 | 55.4 | 60.7 | -    | 52.2 | 54.1 | 59.2 | -    | 50.9 | 52.7 | 57.8 | -    | 48.3 | 50.1 | 54.9 | -    | 44.8 | 46.4 | 50.9 | -    |      |      |      |      |  |  |
|                 |      | S/T     | 0.71                        | 0.59 | 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 | 19                          | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 19   | 17   | 13   | -    | 18   | 16   | 12   | -    |      |      |      |      |  |  |
|                 |      | KW      | 3.82                        | 3.90 | 4.03 | -    | 4.11 | 4.20 | 4.34 | -    | 4.37 | 4.47 | 4.61 | -    | 4.60 | 4.70 | 4.85 | -    | 4.79 | 4.90 | 5.06 | -    | 4.96 | 5.07 | 5.23 | -    |      |      |      |      |  |  |
|                 |      | AMPS    | 16.1                        | 16.4 | 16.9 | -    | 17.2 | 17.6 | 18.1 | -    | 18.5 | 19.0 | 19.5 | -    | 19.7 | 20.1 | 20.7 | -    | 20.8 | 21.3 | 22.0 | -    | 22.0 | 22.5 | 23.2 | -    |      |      |      |      |  |  |
| 70              | 1850 | HI PR   | 230                         | 248  | 262  | -    | 258  | 278  | 294  | -    | 294  | 316  | 334  | -    | 335  | 360  | 380  | -    | 376  | 405  | 428  | -    | 416  | 448  | 473  | -    |      |      |      |      |  |  |
|                 |      | LO PR   | 106                         | 113  | 123  | -    | 112  | 119  | 130  | -    | 116  | 124  | 135  | -    | 122  | 130  | 142  | -    | 128  | 136  | 149  | -    | 133  | 141  | 154  | -    |      |      |      |      |  |  |
|                 |      | MBh     | 50.5                        | 52.3 | 57.3 | -    | 49.3 | 51.1 | 56.0 | -    | 48.1 | 49.9 | 54.7 | -    | 47.0 | 48.7 | 53.3 | -    | 44.6 | 46.2 | 50.7 | -    | 41.3 | 42.8 | 46.9 | -    |      |      |      |      |  |  |
|                 |      | S/T     | 0.69                        | 0.57 | 0.40 | -    | 0.71 | 0.59 | 0.41 | -    | 0.73 | 0.61 | 0.42 | -    | 0.75 | 0.63 | 0.44 | -    | 0.78 | 0.65 | 0.45 | -    | 0.79 | 0.66 | 0.46 | -    |      |      |      |      |  |  |
|                 |      | Delta T | 20                          | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 20   | 17   | 13   | -    | 18   | 16   | 12   | -    |      |      |      |      |  |  |
|                 |      | KW      | 3.73                        | 3.81 | 3.93 | -    | 4.02 | 4.10 | 4.23 | -    | 4.27 | 4.36 | 4.50 | -    | 4.48 | 4.58 | 4.73 | -    | 4.67 | 4.77 | 4.93 | -    | 4.83 | 4.94 | 5.10 | -    |      |      |      |      |  |  |
|                 | 1621 | AMPS    | 15.7                        | 16.0 | 16.5 | -    | 16.8 | 17.2 | 17.7 | -    | 18.1 | 18.5 | 19.0 | -    | 19.2 | 19.6 | 20.2 | -    | 20.3 | 20.8 | 21.4 | -    | 21.4 | 21.9 | 22.6 | -    |      |      |      |      |  |  |
|                 |      | HI PR   | 223                         | 240  | 254  | -    | 251  | 270  | 285  | -    | 285  | 307  | 324  | -    | 325  | 349  | 369  | -    | 365  | 393  | 415  | -    | 403  | 434  | 458  | -    |      |      |      |      |  |  |
|                 |      | LO PR   | 103                         | 109  | 120  | -    | 109  | 116  | 126  | -    | 113  | 120  | 131  | -    | 119  | 126  | 138  | -    | 124  | 132  | 144  | -    | 129  | 137  | 149  | -    |      |      |      |      |  |  |
|                 |      | MBh     | 57.3                        | 59.0 | 63.9 | 68.5 | 56.0 | 57.6 | 62.4 | 66.9 | 54.6 | 56.3 | 60.9 | 65.3 | 53.3 | 54.9 | 59.4 | 63.8 | 50.6 | 52.1 | 56.4 | 60.6 | 46.9 | 48.3 | 52.3 | 56.1 | 46.9 | 48.3 | 52.3 | 56.1 |  |  |
|                 |      | S/T     | 0.85                        | 0.76 | 0.57 | 0.37 | 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 | 0.93 | 0.83 | 0.63 | 0.40 |  |  |
|                 |      | Delta T | 21                          | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 16   | 11   | 22   | 20   | 17   | 11   | 22   | 20   | 16   | 11   | 20   | 19   | 15   | 11   | 20   | 19   | 15   | 11   |  |  |

\* IDB: Entering Indoor Dry Bulb Temperature  
High and low pressures are measured at the liquid and suction access fittings.  
NOTE: Shaded area is ACCA (TVA) conditions

MODEL: GPH1360H41\*\*

EXPANDED PERFORMANCE DATA

COOLING OPERATION

Design Subcooling, 12±3 °F @ the liquid access fitting connection AHR1 95 test conditions. Design Superheat 8±3 °F @ the compressor suction access fitting connection.

| Outdoor Ambient Temperature |         |         |      |      |      |      |      |      |      |                                      |      |      |      |      |      |      |      |      |      |
|-----------------------------|---------|---------|------|------|------|------|------|------|------|--------------------------------------|------|------|------|------|------|------|------|------|------|
| 65                          |         |         |      |      |      |      |      |      |      | 75                                   |      |      |      |      |      |      |      |      |      |
|                             |         |         |      |      |      |      |      |      |      | 85                                   |      |      |      |      |      |      |      |      |      |
|                             |         |         |      |      |      |      |      |      |      | Entering Indoor Wet Bulb Temperature |      |      |      |      |      |      |      |      |      |
| IDB*                        | Airflow | 59      | 63   | 67   | 71   | 75   | 79   | 83   | 87   | 59                                   | 63   | 67   | 71   | 75   | 79   | 83   | 87   | 91   | 95   |
| 80                          | 2079    | MBh     | 58.3 | 59.6 | 63.7 | 68.1 | 71.0 | 75.0 | 78.2 | 62.2                                 | 66.5 | 71.0 | 75.0 | 78.2 | 62.2 | 66.5 | 71.0 | 75.0 | 78.2 |
|                             |         | S/T     | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | 0.74 | 0.55                                 | 1.00 | 0.93 | 0.75 | 0.56 | 1.00 | 0.96 | 0.78 | 0.58 | 0.58 |
|                             |         | Delta T | 24   | 23   | 20   | 16   | 24   | 23   | 20   | 16                                   | 25   | 23   | 20   | 16   | 24   | 23   | 20   | 16   | 21   |
|                             |         | KW      | 3.92 | 4.00 | 4.12 | 4.26 | 4.22 | 4.31 | 4.44 | 4.59                                 | 4.48 | 4.58 | 4.73 | 4.88 | 4.71 | 4.82 | 4.98 | 5.14 | 5.36 |
|                             |         | AMPS    | 16.5 | 16.8 | 17.3 | 17.9 | 17.6 | 18.0 | 18.6 | 19.2                                 | 19.0 | 19.4 | 20.0 | 20.7 | 20.2 | 20.6 | 21.3 | 22.0 | 22.5 |
|                             |         | HI PR   | 237  | 255  | 270  | 281  | 266  | 286  | 303  | 316                                  | 303  | 326  | 344  | 359  | 345  | 371  | 392  | 409  | 429  |
|                             |         | LO PR   | 109  | 116  | 127  | 135  | 116  | 123  | 134  | 143                                  | 120  | 128  | 139  | 148  | 126  | 134  | 146  | 156  | 163  |
|                             | 1850    | MBh     | 56.6 | 57.9 | 61.8 | 66.1 | 55.3 | 56.5 | 60.4 | 64.5                                 | 54.0 | 55.2 | 58.9 | 63.0 | 52.7 | 53.8 | 57.5 | 61.5 | 65.4 |
|                             |         | 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 | 0.58 |
|                             |         | Delta T | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17                                   | 25   | 24   | 21   | 17   | 25   | 24   | 21   | 17   | 23   |
|                             |         | KW      | 3.89 | 3.97 | 4.09 | 4.22 | 4.18 | 4.27 | 4.41 | 4.55                                 | 4.44 | 4.54 | 4.69 | 4.84 | 4.68 | 4.78 | 4.93 | 5.10 | 5.26 |
|                             |         | AMPS    | 16.3 | 16.7 | 17.2 | 17.7 | 17.5 | 17.9 | 18.4 | 19.0                                 | 18.9 | 19.3 | 19.9 | 20.5 | 20.0 | 20.5 | 21.1 | 21.8 | 22.4 |
|                             |         | HI PR   | 235  | 253  | 267  | 278  | 264  | 284  | 300  | 312                                  | 300  | 323  | 341  | 355  | 341  | 367  | 388  | 405  | 424  |
|                             |         | LO PR   | 108  | 115  | 126  | 134  | 114  | 122  | 133  | 141                                  | 119  | 126  | 138  | 147  | 125  | 133  | 145  | 154  | 162  |
|                             | 1621    | MBh     | 52.3 | 53.4 | 57.1 | 61.0 | 51.0 | 52.2 | 55.7 | 59.6                                 | 49.8 | 50.9 | 54.4 | 58.2 | 48.6 | 49.7 | 53.1 | 56.7 | 60.2 |
|                             |         | S/T     | 0.85 | 0.80 | 0.65 | 0.49 | 0.89 | 0.83 | 0.68 | 0.51                                 | 0.91 | 0.85 | 0.69 | 0.52 | 0.94 | 0.88 | 0.72 | 0.54 | 0.56 |
|                             |         | Delta T | 25   | 24   | 21   | 17   | 26   | 25   | 21   | 17                                   | 26   | 25   | 21   | 17   | 26   | 25   | 22   | 17   | 24   |
|                             |         | KW      | 3.79 | 3.87 | 3.99 | 4.12 | 4.08 | 4.17 | 4.30 | 4.44                                 | 4.34 | 4.43 | 4.57 | 4.72 | 4.56 | 4.66 | 4.81 | 4.97 | 5.13 |
|                             |         | AMPS    | 15.9 | 16.3 | 16.8 | 17.3 | 17.1 | 17.4 | 18.0 | 18.6                                 | 18.4 | 18.8 | 19.4 | 20.0 | 19.5 | 20.0 | 20.6 | 21.3 | 21.8 |
|                             |         | HI PR   | 228  | 245  | 259  | 270  | 256  | 275  | 291  | 303                                  | 291  | 313  | 330  | 345  | 331  | 356  | 376  | 393  | 412  |
|                             |         | LO PR   | 105  | 112  | 122  | 130  | 111  | 118  | 129  | 137                                  | 115  | 123  | 134  | 143  | 121  | 129  | 141  | 150  | 157  |

|         |         |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|---------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 2079    | MBh     | 59.3 | 60.5 | 63.3 | 67.6 | 58.0 | 59.1 | 61.9 | 66.0 | 56.6 | 57.7 | 60.4 | 64.4 | 55.2 | 56.3 | 58.9 | 62.9 | 52.4 | 53.5 | 56.0 | 59.7 | 48.6 | 49.5 | 51.9 | 55.3 |
|         | S/T     | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 0.97 | 0.88 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.93 | 0.76 | 1.00 | 1.00 | 0.97 | 0.78 | 1.00 | 1.00 | 0.97 | 0.79 |
|         | Delta T | 26   | 25   | 24   | 21   | 26   | 25   | 24   | 21   | 25   | 25   | 24   | 21   | 24   | 25   | 24   | 21   | 23   | 24   | 24   | 21   | 21   | 22   | 22   | 19   |
|         | KW      | 3.95 | 4.03 | 4.16 | 4.29 | 4.25 | 4.34 | 4.48 | 4.63 | 4.52 | 4.62 | 4.77 | 4.92 | 4.75 | 4.86 | 5.02 | 5.18 | 4.95 | 5.06 | 5.23 | 5.41 | 5.13 | 5.24 | 5.42 | 5.60 |
|         | AMPS    | 16.6 | 16.9 | 17.4 | 18.0 | 17.8 | 18.2 | 18.7 | 19.3 | 19.2 | 19.6 | 20.2 | 20.9 | 20.4 | 20.8 | 21.5 | 22.2 | 21.6 | 22.0 | 22.7 | 23.5 | 22.7 | 23.3 | 24.0 | 24.8 |
|         | HiPR    | 240  | 258  | 272  | 284  | 269  | 289  | 306  | 319  | 306  | 329  | 348  | 362  | 348  | 375  | 396  | 413  | 392  | 422  | 445  | 464  | 433  | 466  | 492  | 513  |
|         | LO PR   | 110  | 117  | 128  | 137  | 117  | 124  | 135  | 144  | 121  | 129  | 141  | 150  | 127  | 135  | 148  | 158  | 133  | 142  | 155  | 165  | 138  | 147  | 160  | 171  |
|         | MBh     | 57.6 | 58.7 | 61.5 | 65.6 | 56.3 | 57.4 | 60.1 | 64.1 | 54.9 | 56.0 | 58.6 | 62.6 | 53.6 | 54.6 | 57.2 | 61.0 | 50.9 | 51.9 | 54.4 | 58.0 | 47.2 | 48.1 | 50.3 | 53.7 |
|         | 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 | 27   | 26   | 25   | 21   | 27   | 26   | 25   | 22   | 27   | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 25   | 26   | 25   | 22   | 23   | 24   | 23   | 20   |
| 1850    | KW      | 3.92 | 4.00 | 4.12 | 4.26 | 4.22 | 4.31 | 4.44 | 4.59 | 4.48 | 4.58 | 4.73 | 4.88 | 4.71 | 4.82 | 4.98 | 5.14 | 4.91 | 5.02 | 5.19 | 5.36 | 5.08 | 5.20 | 5.37 | 5.55 |
|         | AMPS    | 16.5 | 16.8 | 17.3 | 17.9 | 17.6 | 18.0 | 18.6 | 19.2 | 19.0 | 19.4 | 20.0 | 20.7 | 20.2 | 20.6 | 21.3 | 22.0 | 21.4 | 21.9 | 22.5 | 23.3 | 22.5 | 23.1 | 23.8 | 24.6 |
|         | HiPR    | 237  | 255  | 270  | 281  | 266  | 286  | 303  | 316  | 303  | 326  | 344  | 359  | 345  | 371  | 392  | 409  | 388  | 417  | 441  | 460  | 429  | 461  | 487  | 508  |
|         | LO PR   | 109  | 116  | 127  | 135  | 116  | 123  | 134  | 143  | 120  | 128  | 139  | 148  | 126  | 134  | 146  | 156  | 132  | 141  | 153  | 163  | 137  | 145  | 159  | 169  |
|         | MBh     | 53.2 | 54.2 | 56.8 | 60.6 | 51.9 | 52.9 | 55.4 | 59.2 | 50.7 | 51.7 | 54.1 | 57.7 | 49.5 | 50.4 | 52.8 | 56.3 | 47.0 | 47.9 | 50.2 | 53.5 | 43.5 | 44.4 | 46.5 | 49.6 |
|         | S/T     | 0.90 | 0.86 | 0.78 | 0.63 | 0.93 | 0.90 | 0.81 | 0.66 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.86 | 0.69 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 0.99 | 0.90 | 0.73 |
| Delta T | 27      | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 28   | 27   | 26   | 22   | 27   | 27   | 25   | 22   | 25   | 25   | 24   | 20   |      |
| 1621    | KW      | 3.82 | 3.90 | 4.02 | 4.15 | 4.11 | 4.20 | 4.34 | 4.48 | 4.37 | 4.47 | 4.61 | 4.76 | 4.60 | 4.70 | 4.85 | 5.01 | 4.79 | 4.90 | 5.06 | 5.23 | 4.96 | 5.07 | 5.23 | 5.41 |
|         | AMPS    | 16.1 | 16.4 | 16.9 | 17.4 | 17.2 | 17.6 | 18.1 | 18.7 | 18.5 | 19.0 | 19.5 | 20.2 | 19.7 | 20.1 | 20.7 | 21.5 | 20.8 | 21.3 | 22.0 | 22.7 | 22.0 | 22.5 | 23.2 | 24.0 |
|         | HiPR    | 230  | 248  | 262  | 273  | 258  | 278  | 293  | 306  | 294  | 316  | 334  | 348  | 335  | 360  | 380  | 396  | 376  | 405  | 428  | 446  | 416  | 447  | 472  | 493  |
|         | LO PR   | 106  | 113  | 123  | 131  | 112  | 119  | 130  | 139  | 116  | 124  | 135  | 144  | 122  | 130  | 142  | 151  | 128  | 136  | 149  | 159  | 133  | 141  | 154  | 164  |
|         | MBh     | 53.2 | 54.2 | 56.8 | 60.6 | 51.9 | 52.9 | 55.4 | 59.2 | 50.7 | 51.7 | 54.1 | 57.7 | 49.5 | 50.4 | 52.8 | 56.3 | 47.0 | 47.9 | 50.2 | 53.5 | 43.5 | 44.4 | 46.5 | 49.6 |
|         | S/T     | 0.90 | 0.86 | 0.78 | 0.63 | 0.93 | 0.90 | 0.81 | 0.66 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.86 | 0.69 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 0.99 | 0.90 | 0.73 |
| Delta T | 27      | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 27   | 27   | 25   | 22   | 28   | 27   | 26   | 22   | 27   | 27   | 25   | 22   | 25   | 25   | 24   | 20   |      |

# PACKAGE HEAT PUMP SPECIFICATIONS

GPH13[24-42]H41\*\*

## EXPANDED PERFORMANCE DATA

MODEL: GPH1324H41\*\*

HEATING OPERATION

|         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh     | 27.7                        | 26.2 | 24.6 | 23.0 | 22.0 | 21.3 | 19.8 | 18.3 | 17.4 | 16.1 | 14.8 | 14.0 | 13.5 | 12.1 | 10.7 | 9.4  | 8.0  | 6.5  |
| DELTA T | 29.3                        | 27.7 | 26.1 | 24.4 | 23.3 | 22.6 | 21.0 | 19.3 | 18.5 | 17.0 | 15.7 | 14.8 | 14.3 | 12.8 | 11.3 | 9.9  | 8.4  | 6.9  |
| KW      | 2.01                        | 1.97 | 1.94 | 1.90 | 1.88 | 1.86 | 1.82 | 1.78 | 1.82 | 1.78 | 1.74 | 1.72 | 1.70 | 1.66 | 1.62 | 1.58 | 1.54 | 1.50 |
| AMPS    | 9.6                         | 9.0  | 8.5  | 8.1  | 7.8  | 7.7  | 7.3  | 7.0  | 6.7  | 6.5  | 6.2  | 6.1  | 6.0  | 5.8  | 5.5  | 5.2  | 4.9  | 4.5  |
| COP     | 4.02                        | 3.88 | 3.73 | 3.55 | 3.43 | 3.36 | 3.18 | 3.00 | 2.81 | 2.65 | 2.50 | 2.39 | 2.32 | 2.13 | 1.94 | 1.73 | 1.52 | 1.28 |
| EER     | 13.7                        | 13.3 | 12.7 | 12.1 | 11.7 | 11.5 | 10.9 | 10.2 | 9.6  | 9.1  | 8.5  | 8.2  | 7.9  | 7.3  | 6.6  | 5.9  | 5.2  | 4.4  |
| HIPR    | 366                         | 351  | 337  | 323  | 315  | 309  | 297  | 285  | 273  | 261  | 251  | 245  | 240  | 231  | 222  | 213  | 205  | 198  |
| LOPR    | 132                         | 122  | 114  | 105  | 99   | 95   | 88   | 78   | 70   | 63   | 55   | 51   | 50   | 42   | 36   | 31   | 27   | 21   |

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

MODEL: GPH1330H41\*\*

HEATING OPERATION

|         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh     | 33.9                        | 32.1 | 30.2 | 28.3 | 27.0 | 26.2 | 24.3 | 22.4 | 19.8 | 18.2 | 16.8 | 15.9 | 15.3 | 13.7 | 12.1 | 10.6 | 9.0  | 7.4  |
| DELTA T | 29.9                        | 28.3 | 26.7 | 24.9 | 23.8 | 23.1 | 21.4 | 19.8 | 17.4 | 16.1 | 14.8 | 14.0 | 13.5 | 12.1 | 10.7 | 9.3  | 8.0  | 6.5  |
| KW      | 2.43                        | 2.39 | 2.34 | 2.29 | 2.27 | 2.25 | 2.20 | 2.16 | 2.50 | 2.44 | 2.38 | 2.35 | 2.33 | 2.27 | 2.21 | 2.16 | 2.10 | 2.04 |
| AMPS    | 12.1                        | 11.3 | 10.7 | 10.1 | 9.8  | 9.6  | 9.2  | 8.8  | 8.5  | 8.1  | 7.8  | 7.7  | 7.6  | 7.2  | 6.9  | 6.5  | 6.1  | 5.7  |
| COP     | 4.08                        | 3.94 | 3.78 | 3.61 | 3.49 | 3.41 | 3.23 | 3.04 | 2.32 | 2.19 | 2.06 | 1.98 | 1.92 | 1.77 | 1.61 | 1.44 | 1.26 | 1.06 |
| EER     | 14.0                        | 13.5 | 12.9 | 12.3 | 11.9 | 11.6 | 11.0 | 10.4 | 7.9  | 7.5  | 7.0  | 6.7  | 6.6  | 6.0  | 5.5  | 4.9  | 4.3  | 3.6  |
| HIPR    | 384                         | 368  | 354  | 338  | 331  | 324  | 312  | 299  | 287  | 274  | 263  | 256  | 252  | 242  | 233  | 223  | 215  | 208  |
| LOPR    | 132                         | 122  | 115  | 105  | 99   | 96   | 88   | 78   | 71   | 63   | 55   | 52   | 50   | 42   | 36   | 31   | 27   | 21   |

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

MODEL: GPH1336H41\*\*

HEATING OPERATION

|         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh     | 42.2                        | 40.0 | 37.6 | 35.2 | 33.6 | 32.6 | 30.2 | 27.9 | 22.4 | 20.7 | 19.1 | 18.0 | 17.3 | 15.6 | 13.8 | 12.0 | 10.3 | 8.4  |
| DELTA T | 32.6                        | 30.9 | 29.0 | 27.1 | 25.9 | 25.1 | 23.3 | 21.5 | 17.3 | 16.0 | 14.7 | 13.9 | 13.4 | 12.0 | 10.6 | 9.3  | 7.9  | 6.5  |
| KW      | 2.99                        | 2.94 | 2.88 | 2.82 | 2.79 | 2.77 | 2.72 | 2.66 | 2.76 | 2.70 | 2.64 | 2.61 | 2.58 | 2.52 | 2.47 | 2.41 | 2.35 | 2.29 |
| AMPS    | 14.8                        | 13.9 | 13.1 | 12.5 | 12.1 | 11.9 | 11.3 | 10.8 | 10.5 | 10.1 | 9.7  | 9.5  | 9.4  | 9.0  | 8.6  | 8.2  | 7.7  | 7.1  |
| COP     | 4.13                        | 3.99 | 3.82 | 3.64 | 3.52 | 3.44 | 3.26 | 3.07 | 2.38 | 2.24 | 2.11 | 2.02 | 1.96 | 1.80 | 1.64 | 1.46 | 1.28 | 1.07 |
| EER     | 14.1                        | 13.6 | 13.1 | 12.5 | 12.0 | 11.8 | 11.1 | 10.5 | 8.1  | 7.7  | 7.2  | 6.9  | 6.7  | 6.2  | 5.6  | 5.0  | 4.4  | 3.7  |
| HIPR    | 368                         | 353  | 339  | 324  | 317  | 311  | 299  | 287  | 274  | 262  | 252  | 246  | 241  | 232  | 223  | 214  | 206  | 199  |
| LOPR    | 134                         | 125  | 117  | 107  | 101  | 97   | 90   | 80   | 72   | 64   | 57   | 53   | 51   | 43   | 37   | 31   | 27   | 21   |

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

MODEL: GPH1342H41\*\*

HEATING OPERATION

|         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh     | 47.8                        | 45.2 | 42.6 | 39.8 | 38.0 | 36.8 | 34.2 | 31.5 | 27.4 | 25.3 | 23.3 | 22.0 | 21.2 | 19.0 | 16.9 | 14.7 | 12.5 | 10.3 |
| DELTA T | 31.4                        | 29.7 | 27.9 | 26.1 | 25.0 | 24.2 | 22.5 | 20.7 | 18.0 | 16.6 | 15.3 | 14.4 | 13.9 | 12.5 | 11.1 | 9.7  | 8.2  | 6.7  |
| KW      | 3.27                        | 3.21 | 3.15 | 3.09 | 3.06 | 3.04 | 2.98 | 2.92 | 3.03 | 2.97 | 2.90 | 2.87 | 2.84 | 2.78 | 2.71 | 2.65 | 2.59 | 2.53 |
| AMPS    | 11.9                        | 11.2 | 10.7 | 10.2 | 9.9  | 9.8  | 9.4  | 9.0  | 8.8  | 8.5  | 8.2  | 8.1  | 8.0  | 7.8  | 7.4  | 7.1  | 6.8  | 6.4  |
| COP     | 4.27                        | 4.12 | 3.95 | 3.76 | 3.63 | 3.55 | 3.36 | 3.16 | 2.65 | 2.50 | 2.35 | 2.25 | 2.18 | 2.00 | 1.82 | 1.62 | 1.42 | 1.19 |
| EER     | 14.6                        | 14.1 | 13.5 | 12.9 | 12.4 | 12.1 | 11.5 | 10.8 | 9.0  | 8.5  | 8.0  | 7.7  | 7.5  | 6.8  | 6.2  | 5.5  | 4.8  | 4.1  |
| HIPR    | 355                         | 341  | 327  | 313  | 306  | 300  | 288  | 277  | 265  | 253  | 243  | 237  | 233  | 224  | 216  | 207  | 199  | 192  |
| LOPR    | 130                         | 121  | 113  | 104  | 98   | 94   | 87   | 77   | 70   | 62   | 55   | 51   | 49   | 41   | 36   | 30   | 26   | 21   |

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

# PACKAGE HEAT PUMP SPECIFICATIONS

**GPH13[48-60]H41\*\***

**MODEL: GPH1348H41\*\***

**HEATING OPERATION**

|         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|---------|-----------------------------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
|         | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30   | 25   | 20   | 17   | 15   | 10   | 5    | 0    | -5   | -10  |
| MBh     | 55.9                        | 53.0 | 49.8 | 46.6 | 44.5 | 43.1 | 40.1 | 36.9 | 32.4 | 29.9 | 27.5 | 26.0 | 25.0 | 22.5 | 19.9 | 17.4 | 14.8 | 12.1 |
| DELTA T | 32.4                        | 30.6 | 28.8 | 27.0 | 25.8 | 25.0 | 23.2 | 21.4 | 18.7 | 17.3 | 15.9 | 15.0 | 14.5 | 13.0 | 11.5 | 10.1 | 8.6  | 7.0  |
| KW      | 3.72                        | 3.65 | 3.58 | 3.52 | 3.48 | 3.45 | 3.38 | 3.32 | 3.40 | 3.33 | 3.26 | 3.22 | 3.19 | 3.12 | 3.05 | 2.98 | 2.90 | 2.83 |
| AMPS    | 19.1                        | 17.9 | 16.9 | 16.1 | 15.6 | 15.4 | 14.6 | 14.0 | 13.5 | 13.1 | 12.6 | 12.3 | 12.2 | 11.7 | 11.1 | 10.6 | 10.0 | 9.3  |
| COP     | 4.40                        | 4.24 | 4.07 | 3.88 | 3.74 | 3.66 | 3.46 | 3.26 | 2.79 | 2.63 | 2.47 | 2.37 | 2.30 | 2.11 | 1.91 | 1.71 | 1.49 | 1.25 |
| EER     | 15.0                        | 14.5 | 13.9 | 13.2 | 12.8 | 12.5 | 11.8 | 11.1 | 9.5  | 9.0  | 8.4  | 8.1  | 7.9  | 7.2  | 6.5  | 5.8  | 5.1  | 4.3  |
| HIPR    | 366                         | 351  | 337  | 323  | 315  | 309  | 297  | 285  | 273  | 261  | 250  | 244  | 240  | 231  | 222  | 213  | 205  | 198  |
| LOPR    | 130                         | 121  | 113  | 104  | 98   | 94   | 87   | 77   | 70   | 62   | 55   | 51   | 49   | 41   | 36   | 30   | 26   | 21   |

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

**MODEL: GPH1360H41\*\***

**HEATING OPERATION**

|         | Outdoor Ambient Temperature |      |      |      |      |      |      |      |       |       |       |       |       |       |       |       |       |       |
|---------|-----------------------------|------|------|------|------|------|------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|         | 65                          | 60   | 55   | 50   | 47   | 45   | 40   | 35   | 30    | 25    | 20    | 17    | 15    | 10    | 5     | 0     | -5    | -10   |
| MBh     | 68.5                        | 64.9 | 61.0 | 57.1 | 54.5 | 52.8 | 49.1 | 45.2 | 39.9  | 36.8  | 33.9  | 32.0  | 30.8  | 27.6  | 24.5  | 21.4  | 18.2  | 14.9  |
| DELTA T | 34.3                        | 32.5 | 30.6 | 28.6 | 27.3 | 26.4 | 24.5 | 22.6 | 20.0  | 18.4  | 17.0  | 16.0  | 15.4  | 13.8  | 12.3  | 10.7  | 9.1   | 7.5   |
| KW      | 5.30                        | 5.19 | 5.09 | 4.98 | 4.92 | 4.87 | 4.77 | 4.67 | 41.89 | 40.71 | 39.57 | 38.88 | 38.42 | 37.24 | 36.10 | 34.96 | 33.78 | 32.64 |
| AMPS    | 22.8                        | 21.3 | 20.1 | 19.0 | 18.4 | 18.0 | 17.1 | 16.3 | 15.7  | 15.1  | 14.5  | 14.2  | 14.0  | 13.4  | 12.6  | 12.0  | 11.2  | 10.3  |
| COP     | 3.78                        | 3.65 | 3.51 | 3.35 | 3.24 | 3.17 | 3.01 | 2.84 | 0.28  | 0.26  | 0.25  | 0.24  | 0.23  | 0.22  | 0.20  | 0.18  | 0.16  | 0.13  |
| EER     | 12.9                        | 12.5 | 12.0 | 11.5 | 11.1 | 10.8 | 10.3 | 9.7  | 1.0   | 0.9   | 0.9   | 0.8   | 0.8   | 0.7   | 0.7   | 0.6   | 0.5   | 0.5   |
| HIPR    | 370                         | 354  | 341  | 326  | 318  | 312  | 300  | 288  | 276   | 263   | 253   | 247   | 242   | 233   | 224   | 215   | 207   | 200   |
| LOPR    | 125                         | 116  | 108  | 99   | 94   | 90   | 83   | 74   | 67    | 60    | 52    | 49    | 47    | 40    | 34    | 29    | 25    | 20    |

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 **HI PR** shown.

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

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

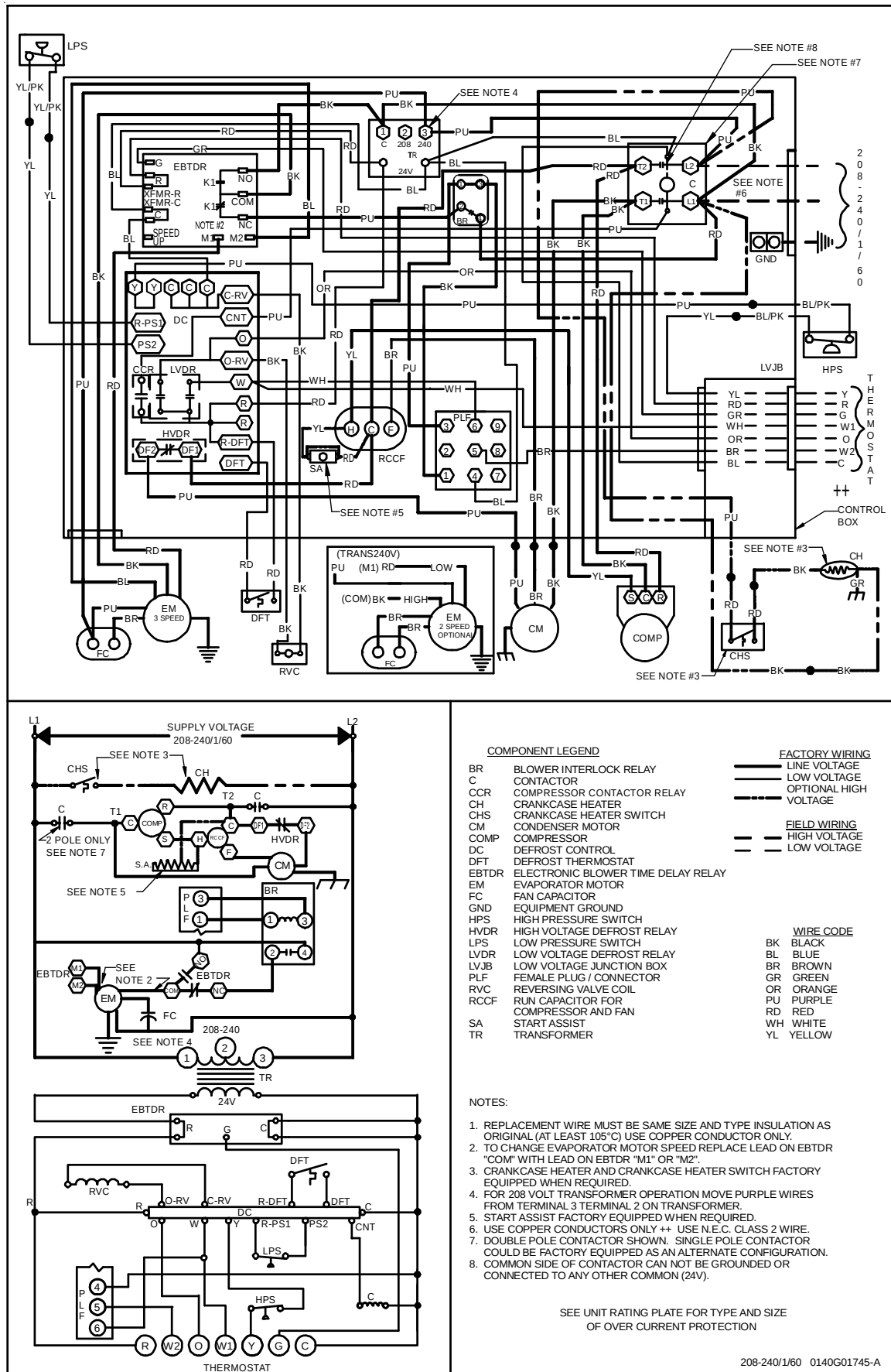
# WIRING DIAGRAMS

GPH13[24-42]H41AB

GPH1348H41BB



**HIGH VOLTAGE!**  
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.

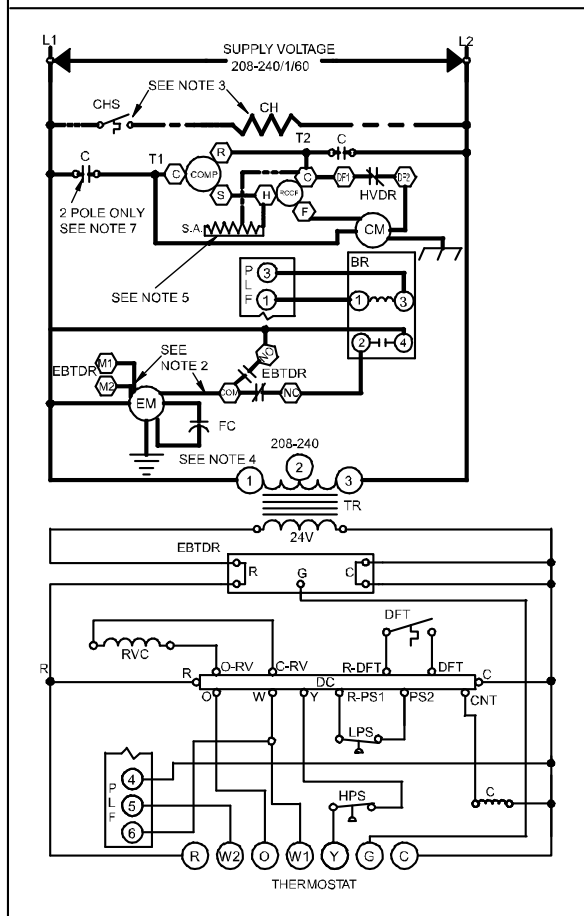
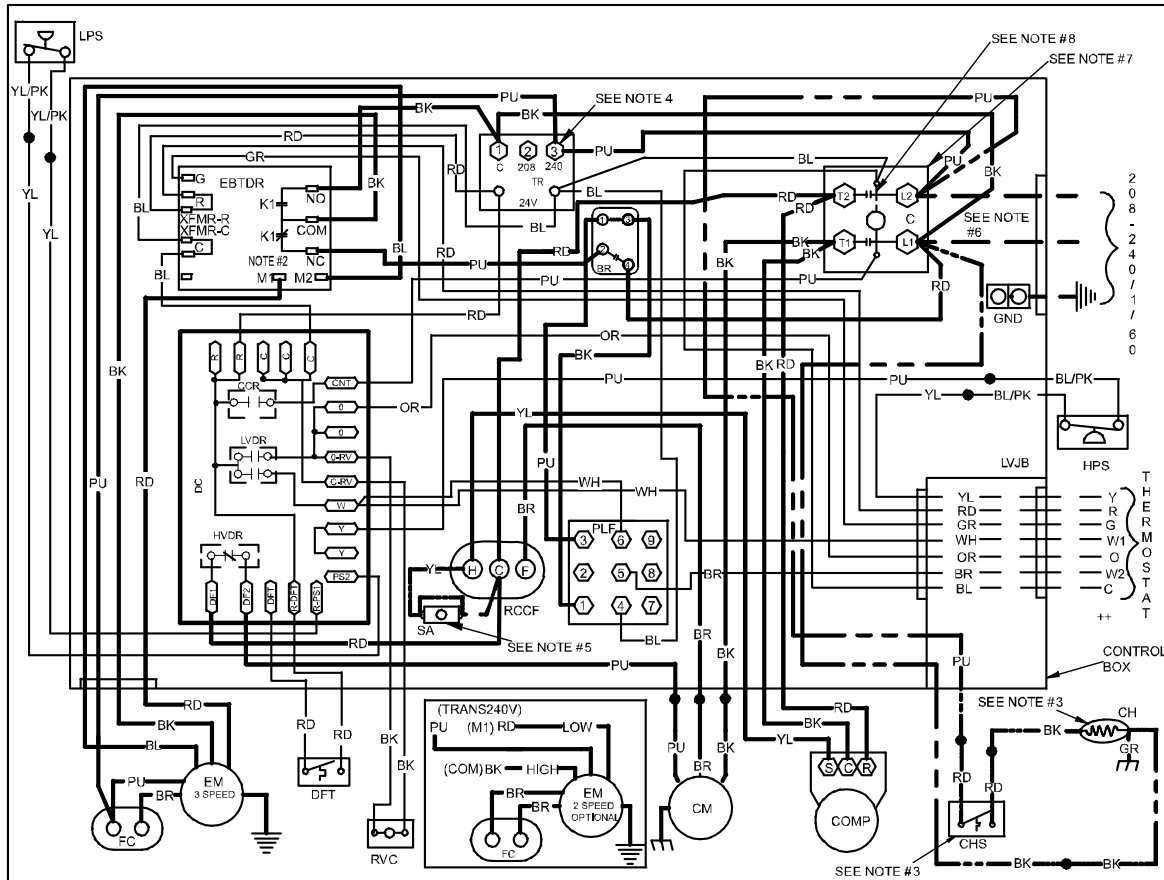


Wiring is subject to change, always refer to the wiring diagram on the unit for the most up-to-date wiring.

# WIRING DIAGRAMS

GPH13[24-42]H41AB

GPH1348H41BB



## COMPONENT LEGEND

|       |                                      |
|-------|--------------------------------------|
| BR    | BLOWER INTERLOCK RELAY               |
| C     | CONTACTOR                            |
| CCR   | COMPRESSOR CONTACTOR RELAY           |
| CH    | CRANKCASE HEATER                     |
| CHS   | CRANKCASE HEATER SWITCH              |
| CM    | CONDENSER MOTOR                      |
| COMP  | COMPRESSOR                           |
| DC    | DEFROST CONTROL                      |
| DFT   | DEFROST THERMOSTAT                   |
| EBTDR | ELECTRONIC BLOWER TIME DELAY RELAY   |
| EM    | EVAPORATOR MOTOR                     |
| FC    | FAN CAPACITOR                        |
| GND   | EQUIPMENT GROUND                     |
| HPS   | HIGH PRESSURE SWITCH                 |
| HVDR  | HIGH VOLTAGE DEFROST RELAY           |
| LPS   | LOW PRESSURE SWITCH                  |
| LVDR  | LOW VOLTAGE DEFROST RELAY            |
| LVJB  | LOW VOLTAGE JUNCTION BOX             |
| PLF   | FEMALE PLUG / CONNECTOR              |
| RVC   | REVERSING VALVE COIL                 |
| RCCF  | RUN CAPACITOR FOR COMPRESSOR AND FAN |
| SA    | START ASSIST                         |
| TR    | TRANSFORMER                          |

## FACTOR Y WIRING

|       |                       |
|-------|-----------------------|
| ===== | LINE VOLTAGE          |
| ===== | LOW VOLTAGE           |
| ===== | OPTIONAL HIGH VOLTAGE |

|       |              |
|-------|--------------|
| ===== | FIELD WIRING |
| ===== | HIGH VOLTAGE |
| ===== | LOW VOLTAGE  |

## WIRE CODE

|    |        |
|----|--------|
| BK | BLACK  |
| BL | BLUE   |
| BR | BROWN  |
| GR | GREEN  |
| OR | ORANGE |
| PU | PURPLE |
| RD | RED    |
| WH | WHITE  |
| YL | YELLOW |

## NOTES:

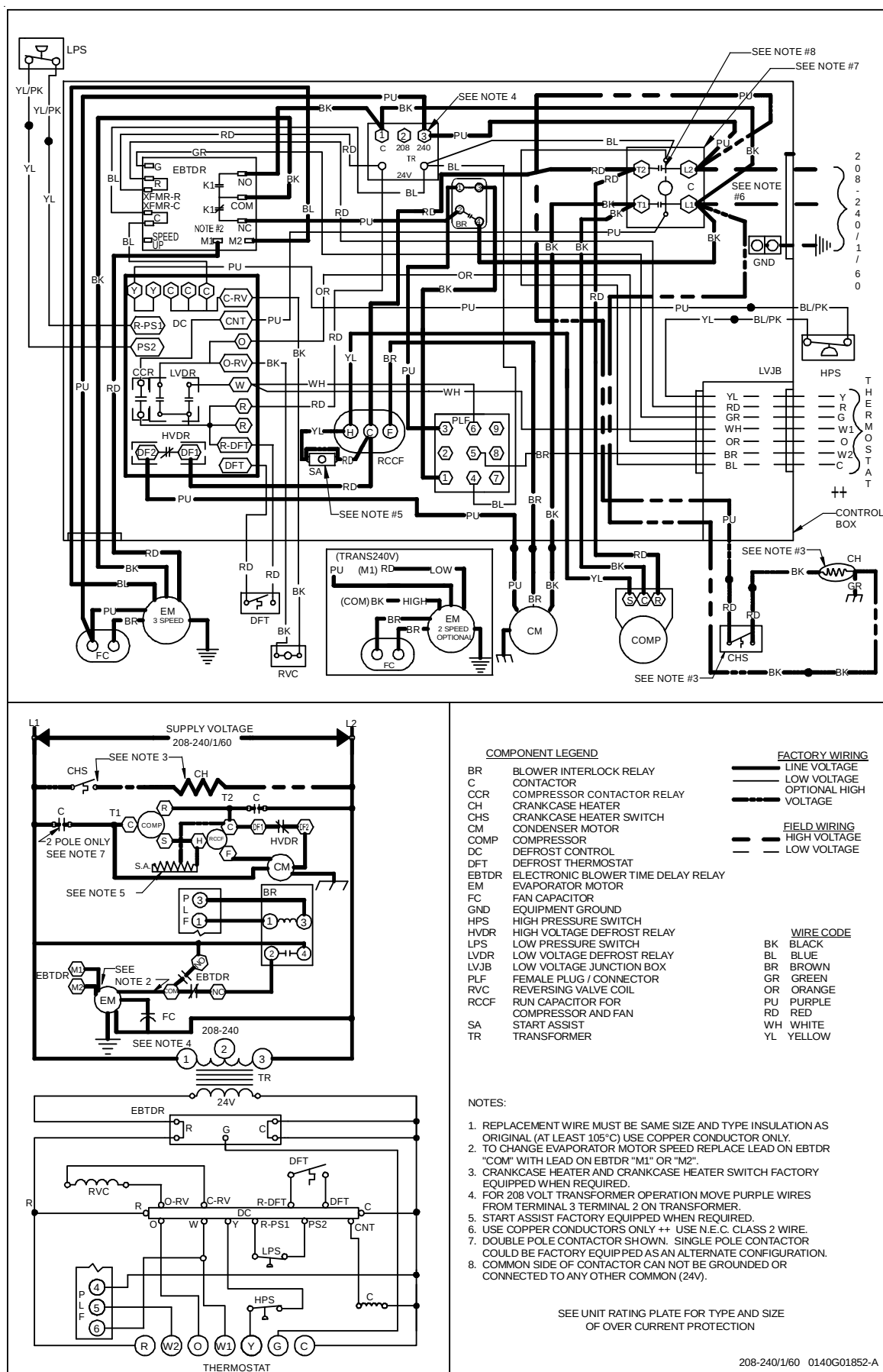
1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED REPLACE LEAD ON EBTDR "COM" WITH LEAD ON EBTDR "M1" OR "M2".
3. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
4. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TERMINAL 2 ON TRANSFORMER.
5. START ASSIST FACTORY EQUIPPED WHEN REQUIRED.
6. USE COPPER CONDUCTORS ONLY ++ USE N.E.C. CLASS 2 WIRE.
7. DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
8. COMMON SIDE OF CONTACTOR CAN NOT BE GROUND OR CONNECTED TO AN OTHER COMMON (24V).

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

0140G01745-B

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

**GPH13[24-42]H41AC/C\***  
**GPH1348H41BC/D\***

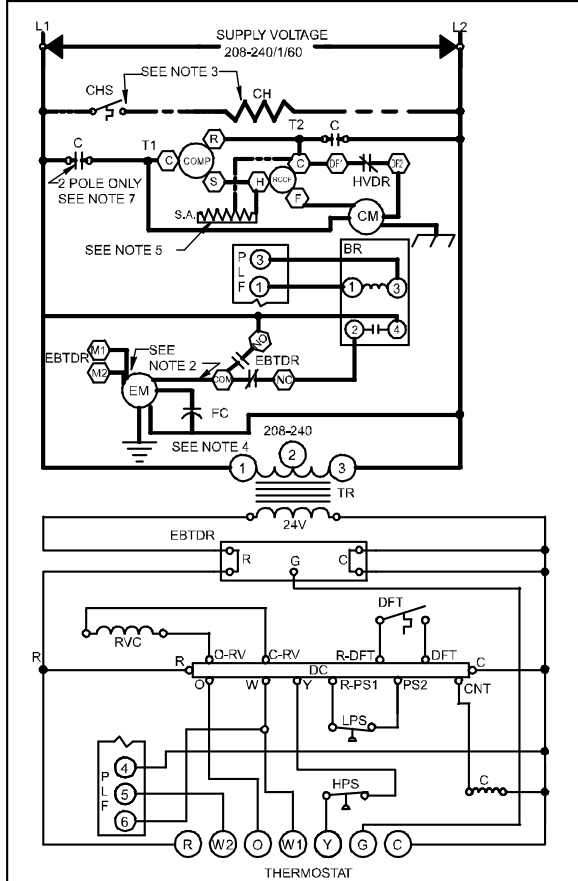
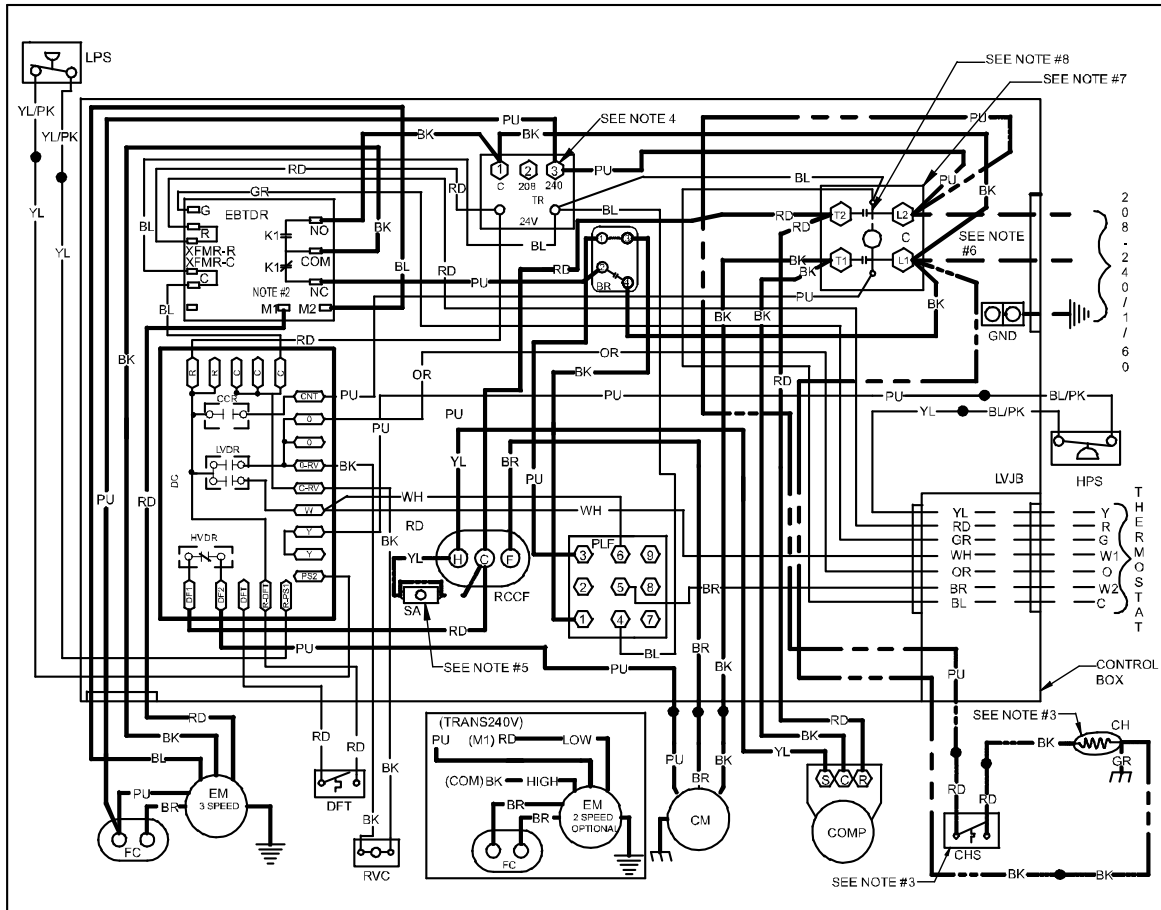


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# WIRING DIAGRAMS

GPH13[24-42]H41AC/C\*

GPH1348H41BC/D\*



## COMPONENT LEGEND

|       |                                      |
|-------|--------------------------------------|
| BR    | BLOWER INTERLOCK RELAY               |
| C     | CONTACTOR                            |
| CCR   | COMPRESSOR CONTACTOR RELAY           |
| CH    | CRANKCASE HEATER                     |
| CHS   | CRANKCASE HEATER SWITCH              |
| CM    | CONDENSER MOTOR                      |
| COMP  | COMPRESSOR                           |
| DC    | DEFROST CONTROL                      |
| DFT   | DEFROST THERMOSTAT                   |
| EBTDR | ELECTRONIC BLOWER TIME DELAY RELAY   |
| EM    | EVAPORATOR MOTOR                     |
| FC    | FAN CAPACITOR                        |
| GND   | EQUIPMENT GROUND                     |
| HPS   | HIGH PRESSURE SWITCH                 |
| HVDR  | HIGH VOLTAGE DEFROST RELAY           |
| LPS   | LOW PRESSURE SWITCH                  |
| LVDR  | LOW VOLTAGE DEFROST RELAY            |
| LVJB  | LOW VOLTAGE JUNCTION BOX             |
| PLF   | FEMALE PLUG / CONNECTOR              |
| RVC   | REVERSING VALVE COIL                 |
| RCCF  | RUN CAPACITOR FOR COMPRESSOR AND FAN |
| SA    | START ASSIST                         |
| TR    | TRANSFORMER                          |

## FACTORY WIRING

|     |                       |
|-----|-----------------------|
| —   | LINE VOLTAGE          |
| --- | LOW VOLTAGE           |
| --- | OPTIONAL HIGH VOLTAGE |

## FIELD WIRING

|     |              |
|-----|--------------|
| --- | HIGH VOLTAGE |
| --- | LOW VOLTAGE  |

## WIRE CODE

|    |        |
|----|--------|
| BK | BLACK  |
| BL | BLUE   |
| BR | BROWN  |
| GR | GREEN  |
| OR | ORANGE |
| PU | PURPLE |
| RD | RED    |
| WH | WHITE  |
| YL | YELLOW |

## NOTES:

1. REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C). USE COPPER CONDUCTOR ONLY.
2. TO CHANGE EVAPORATOR MOTOR SPEED REPLACE LEAD ON EBTDR "COM" WITH LEAD ON EBTDR "M1" OR "M2".
3. CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
4. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TERMINAL 2 ON TRANSFORMER.
5. START ASSIST FACTORY EQUIPPED WHEN REQUIRED.
6. USE COPPER CONDUCTORS ONLY ++ USE N.E.C. CLASS 2 WIRE.
7. DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
8. COMMON SIDE OF CONTACTOR CAN NOT BE GROUNDED OR CONNECTED TO ANY OTHER COMMON (24V).

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

0140G01852-B

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

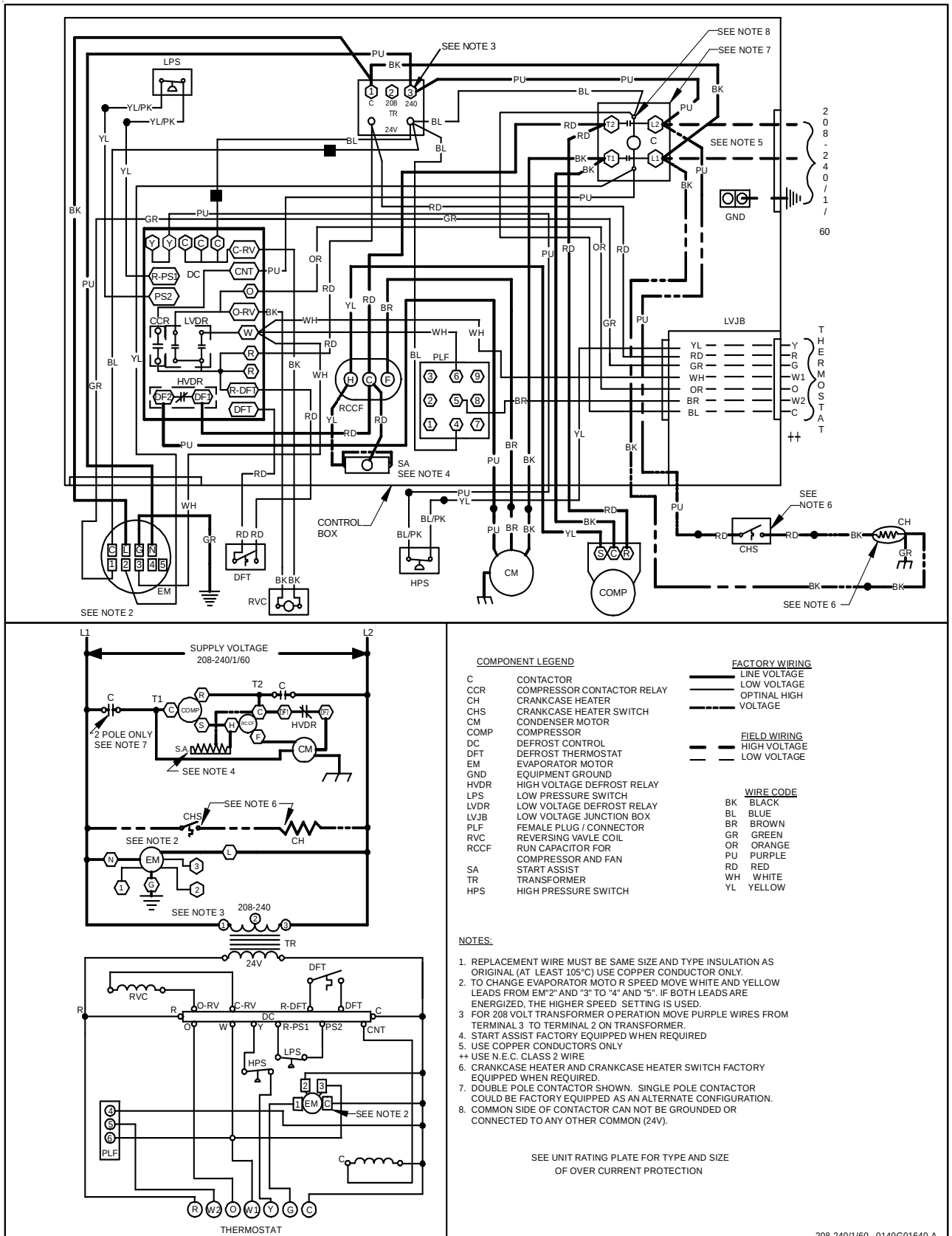


# WIRING DIAGRAMS

GPH1360H41B\*/D\*



**HIGH VOLTAGE!**  
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



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

**WARNING**

**HIGH VOLTAGE!**

**DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.**

| COMPONENT | DESCRIPTION                          |
|-----------|--------------------------------------|
| C         | CONTACTOR                            |
| CCR       | COMPRESSOR CONTACTOR RELAY           |
| CH        | CRANKCASE HEATER                     |
| CHS       | CRANKCASE HEATER SWITCH              |
| CM        | CONDENSER MOTOR                      |
| COMP      | COMPRESSOR                           |
| DC        | DEFROST CONTROL                      |
| DFT       | DEFROST THERMOSTAT                   |
| EM        | EVAPORATOR MOTOR                     |
| GND       | EQUIPMENT GROUND                     |
| HVDR      | HIGH VOLTAGE DEFROST RELAY           |
| LPS       | LOW PRESSURE SWITCH                  |
| LVDR      | LOW VOLTAGE DEFROST RELAY            |
| LVJB      | LOW VOLTAGE JUNCTION BOX             |
| PLF       | FEMALE PLUG / CONNECTOR              |
| RVC       | REVERSING VALVE COIL                 |
| RCCF      | RUN CAPACITOR FOR COMPRESSOR AND FAN |
| SA        | START ASSIST                         |
| TR        | TRANSFORMER                          |
| HPS       | HIGH PRESSURE SWITCH                 |

**NOTES:**

- REPLACEMENT WIRE MUST BE SAME SIZE AND TYPE INSULATION AS ORIGINAL (AT LEAST 105°C) USE COPPER CONDUCTOR ONLY.
- TO CHANGE EVAPORATOR MOTOR SPEED MOVE WHITE AND YELLOW LEADS FROM EM#2 AND #3 TO #14 AND #5. IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
- FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
- START ASSIST FACTORY EQUIPPED WHEN REQUIRED.
- USE COPPER CONDUCTORS ONLY.
- USE N.E.C. CLASS 2 WIRE.
- CRANKCASE HEATER AND CRANKCASE HEATER SWITCH FACTORY EQUIPPED WHEN REQUIRED.
- DOUBLE POLE CONTACTOR SHOWN. SINGLE POLE CONTACTOR COULD BE FACTORY EQUIPPED AS AN ALTERNATE CONFIGURATION.
- COMMON SIDE OF CONTACTOR CAN NOT BE GROUNDED OR CONNECTED TO ANY OTHER COMMON (24V).

SEE UNIT RATING PLATE FOR TYPE AND SIZE OF OVER CURRENT PROTECTION

0140G01640-0