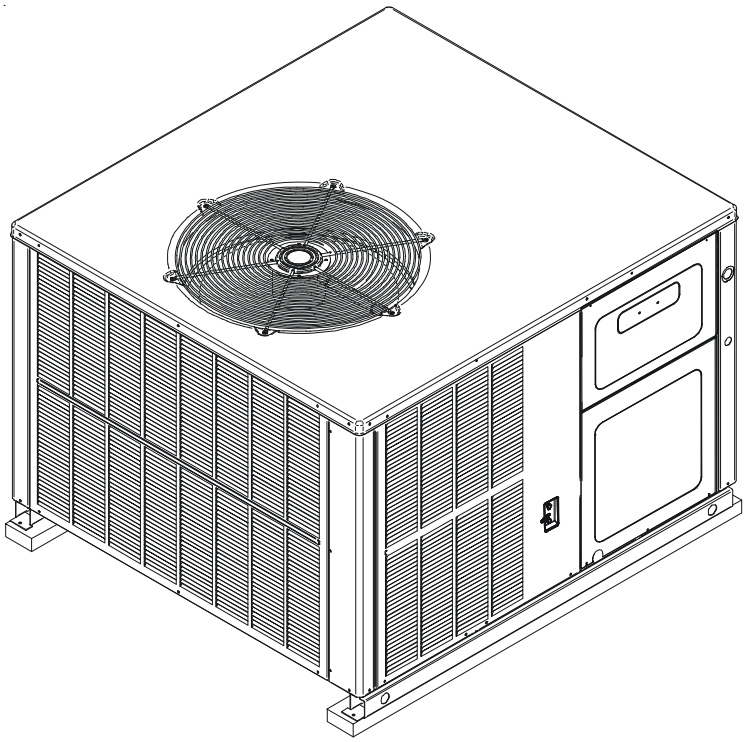
# Goodman® TECHNICAL MANUAL

# GPC15 SEER Multi-Position Package Air Conditioners with R-410A

- Refer to Service Manual RS6300008 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.
- Models qualify for the 2009 and 2010 Federal Tax Credits for Energy Efficiency**



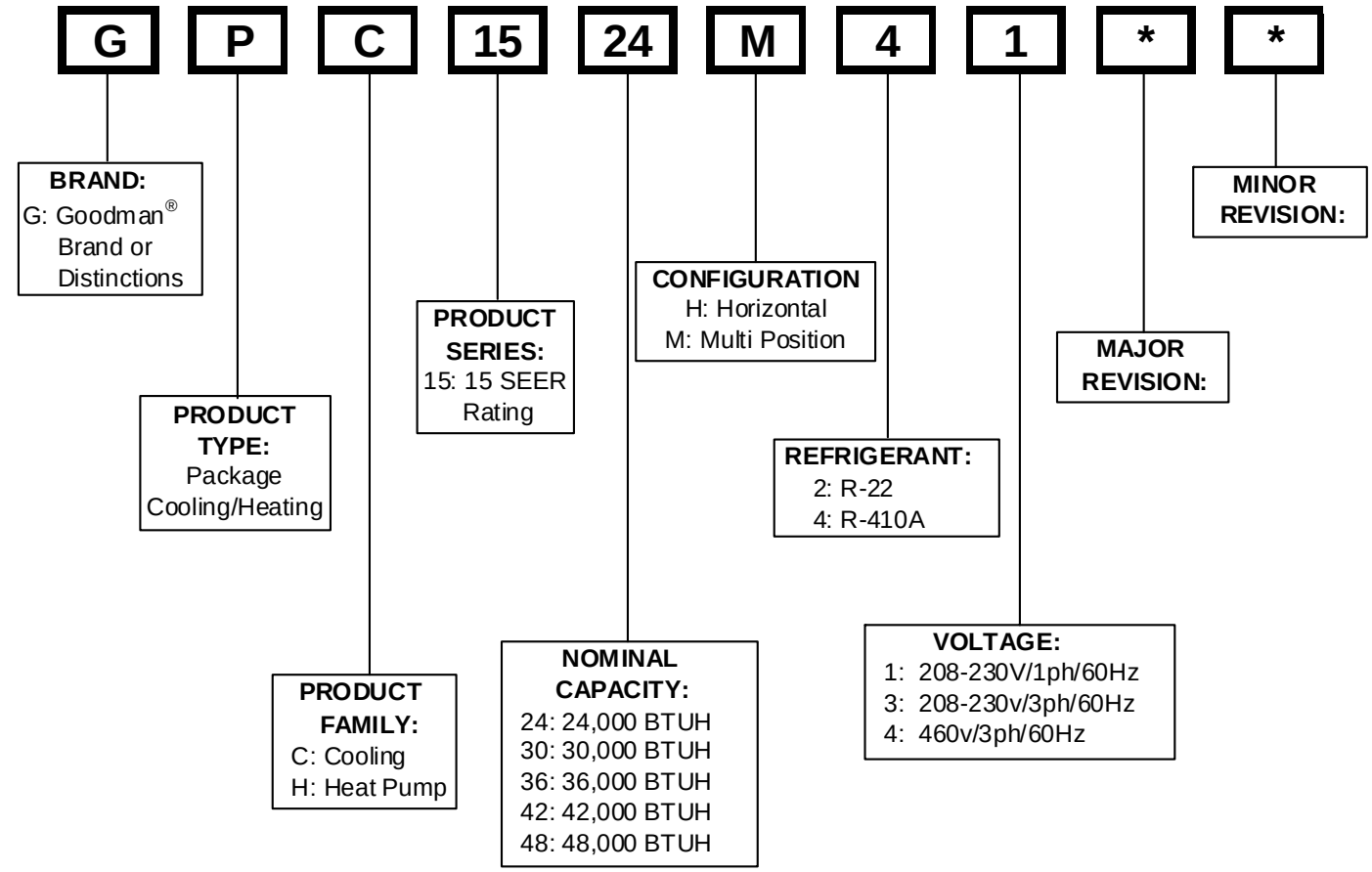
***Note that these tax credits are subject to specific requirements set forth in the American Recovery and Reinvestment Act of 2009 and in the Internal Revenue Code. Goodman recommends that consumers consult a tax professional if they have questions about the applicability of these credits.*

RT6322008r3
August 2009

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.

# 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 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.

GPC1524M41A*
GPC1530M41A*
GPC1536M41A*
GPC1542M41A*
GPC1548M41A*

*Models qualify for the 2009 and 2010 Federal Tax Credits for Energy Efficiency***

***Note that these tax credits are subject to specific requirements set forth in the American Recovery and Reinvestment Act of 2009 and in the Internal Revenue Code. Goodman recommends that consumers consult a tax professional if they have questions about the applicability of these credits.*

**⚠ 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

GPC Package Cooling Units are designed for outdoor installations only in either residential or light commercial applications and are available in 2, 2-1/2, 3, 3-1/2 and 4 ton sizes. They are designed for 208/230 volt single phase applications.

The connecting ductwork (Supply and Return) can be connected for either horizontal or vertical airflow. In the vertical application, a matching Roof Curb is recommended and a horizontal duct cover kit is required.

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" PVC 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. GPC 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. **Do not remove the core 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 therefore 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 motors are single phase capacitor type motors. GPC1524-48M41* units have X-13 indoor blower motors that are energized by a 24V signal from the thermostat and are constant torque motors with very low power consumption. The X-13 features an integral control module.

Air for condensing (cooling 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.

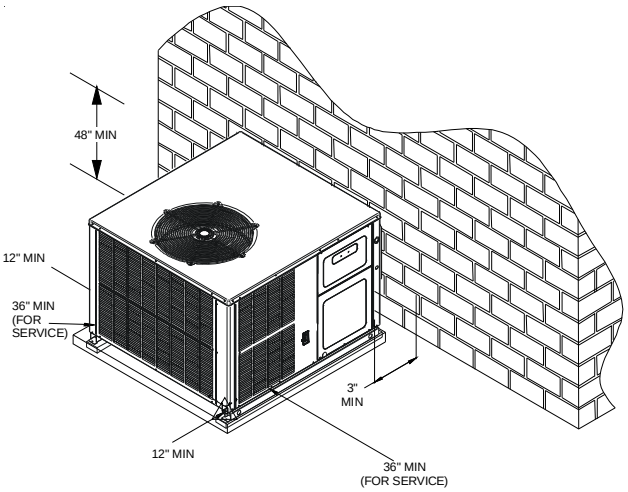
Conditioned air is drawn through the filter(s), field installed, across the coil and back into the conditioned space by the indoor blower.

GPC15 models use Copeland Scroll Compressors. There are a number of design characteristics which are different from the traditional reciprocating compressor.

- Due to their design Scroll Compressors are inherently more tolerant of liquid refrigerant. **NOTE**: Even though the compressor section of a Scroll compressor is more tolerant of liquid refrigerant, continued floodback or flooded start conditions may wash oil from the bearing surfaces causing premature bearing failure.
- Scroll Compressors use white oil which is compatible with 3GS oil which may be used if additional oil is required.
- Operating pressures and amp draws may differ from standard reciprocating compressors. This information may be found in the "Cooling Performance Data" section.

***Location and Clearances***

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

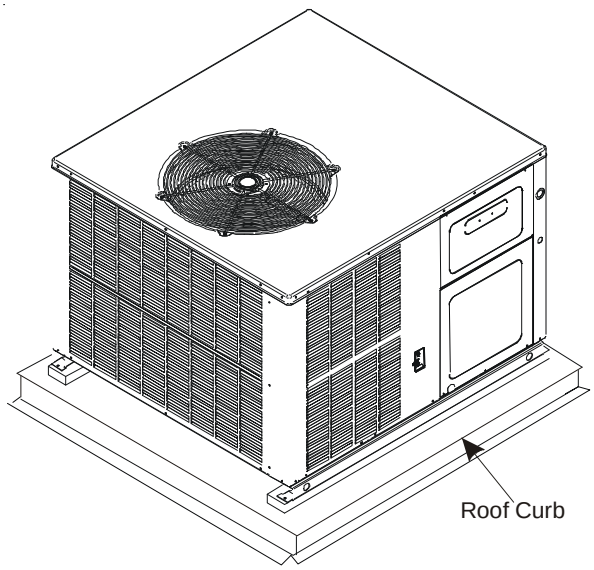



## Outside Slab Installation - Multi-positional (M)

**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 - Multi-positional (M)

**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.

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

**⚠ WARNING**

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

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

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

# HKR ELECTRICAL DATA

| 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 | |
| **GPC1524M41*** | | | | | |
| HKR05A,CA | 24 / 27 | 30 / 30 | ---- | ---- | 4.75 / 16,200 |
| HKR08A,CA | 33 / 28 | 40 / 40 | ---- | ---- | 7.00 / 23,800 |
| HKR10A,CA | 45 / 51 | 60 / 60 | ---- | ---- | 9.50 / 32,400 |
| **GPC1530M41*** | | | | | |
| HKR05A,CA | 24 / 27 | 30 / 30 | -- | -- | 4.75 / 16,200 |
| HKR08A,CA | 34 / 39 | 40 / 40 | -- | -- | 7.0 / 23,800 |
| HKR10A,CA | 45 / 52 | 60 / 60 | -- | -- | 9.5 / 32,400 |
| HKR15A,CA | 45 / 52 | 60 / 60 | 22 / 25 | 30 / 30 | 14.25 / 48,600 |
| **GPC1536M41*** | | | | | |
| HKR05A,CA | 24 / 27 | 30 / 30 | ---- | ---- | 4.75 / 16,200 |
| HKR08A,CA | 34 / 39 | 40 / 40 | ---- | ---- | 7.00 / 23,800 |
| HKR10A,CA | 45 / 52 | 60 / 60 | ---- | ---- | 9.50 / 32,400 |
| HKR15A,CA | 45 / 52 | 60 / 60 | 22 / 25 | 30 / 30 | 14.25 / 48,600 |
| **GPC1542M41*** | | | | | |
| HKR05A,CA | 24 / 27 | 30 / 30 | -- | -- | 4.75 / 16,200 |
| HKR08A,CA | 34 / 39 | 40 / 40 | -- | -- | 7.0 / 23,800 |
| HKR10A,CA | 45 / 52 | 60 / 60 | -- | -- | 9.5 / 32,400 |
| HKR15A,CA | 45 / 52 | 60 / 60 | 22 / 25 | 30 / 30 | 14.25 / 48,600 |
| **GPC1548M41*** | | | | | |
| HKR05A,CA | 25 / 28 | 30 / 30 | ---- | ---- | 4.75 / 16,200 |
| HKR08A,CA | 34 / 40 | 40 / 40 | ---- | ---- | 7.00 / 23,800 |
| HKR10A,CA | 46 / 53 | 60 / 60 | ---- | ---- | 9.50 / 32,400 |
| HKR15A,CA | 46 / 52 | 60 / 60 | 22 / 25 | 30 / 30 | 14.25 / 48,600 |
| HKR20A,CA | 46 / 52 | 60 / 60 | 43 / 49 | 60 / 60 | 19.50 / 66,500 |

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

**Heating kW Correction Factor**

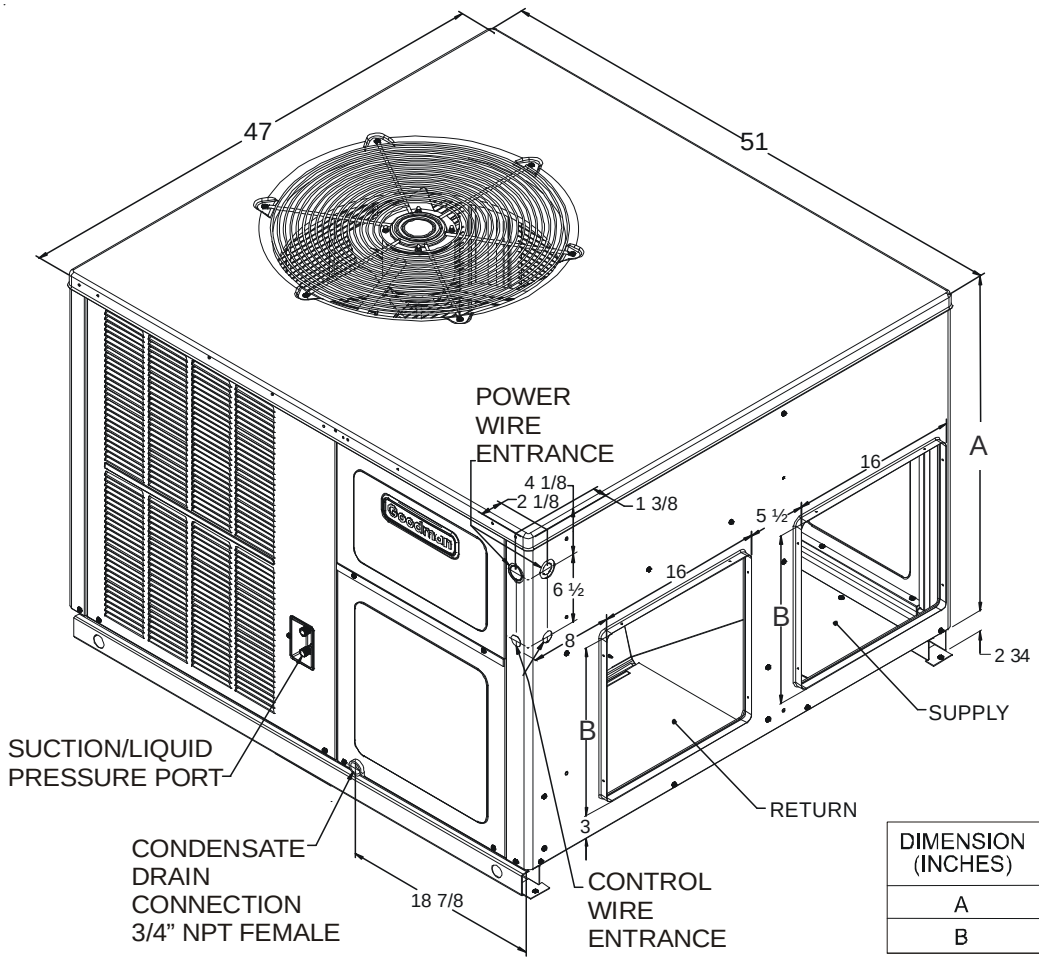
| Supply Votage | 240 | 230 | 220 | 210 | 208 |
|---|---|---|---|---|---|
| Correction Factor | 1.0 | 0.93 | 0.85 | 0.78 | 0.76 |

Multiply rated kW by correction factor to get actual kW

**⚠ 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

# GPC15[24-48]M41*




| DIMENSION (INCHES) | MEDIUM | LARGE |
|---|---|---|
| A | 32 | 40 |
| B | 16 | 18 |

**MEDIUM CHASSIS**

GPC1524M41*

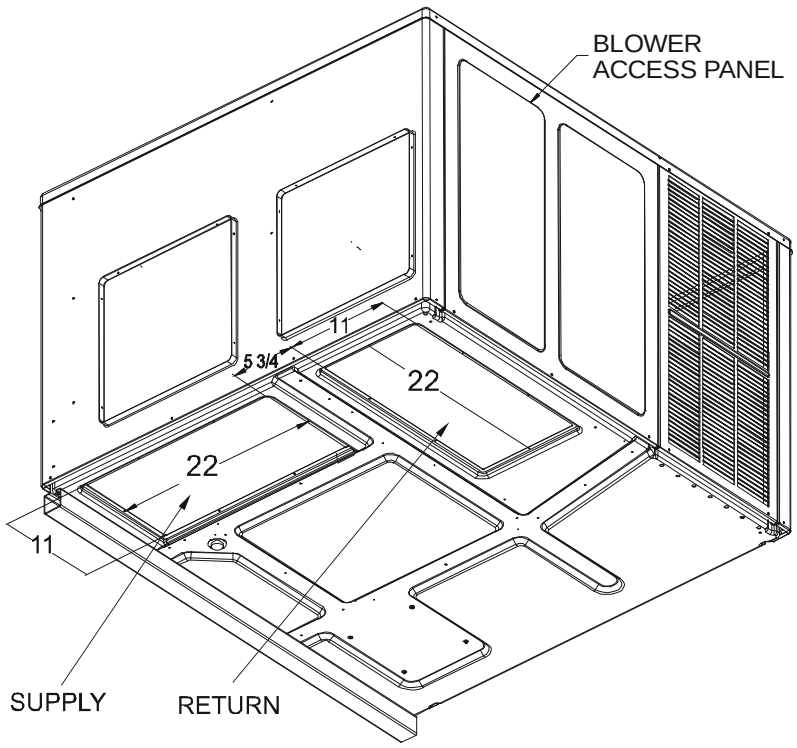
GPC1530M41*

GPC1536M41*

**LARGE CHASSIS**

GPC1542M41*

GPC1548M41*



# PACKAGE COOLING SPECIFICATIONS GPC15[24-48]M41A*

| | | GPC1524M41* | GPC1530M41* | GPC1536M41* | GPC1542M41* | GPC1548M41* |
|---|---|---|---|---|---|---|
| **COOLING** | COOLING CAPACITY, BTUH | 24,000 | 28,000 | 35,000 | 40,000 | 45,500 |
| **CAPACITY** | SEER / EER | 14.5 / 12. 0 | 14.5 / 12. 0 | 14.5 / 12. 0 | 14.5 / 12. 0 | 15.0 / 12.0 |
| **UNIT** | VOLTAGE (NAMEPLATE) | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 | 208/230-60-1 |
| **ELECTRICAL** | AMPS | 15.8 | 17.5 | 20.1 | 22.2 | 24.2 |
| **SPECIFICATION** | MIN CIRCUIT AMPACITY | 19.0 | 21.0 | 24.2 | 26.7 | 29.2 |
| | MAX OVERCURRENT PROTECTION | 30 | 35 | 40 | 40 | 45 |
| **COMPRESSOR** | TYPE | SCROLL | SCROLL | SCROLL | SCROLL | SCROLL |
| | RATED LOAD AMPS | 12.8 | 14.1 | 16.7 | 17.9 | 19.9 |
| | LOCKED ROTOR AMPS | 58.3 | 73.0 | 79.0 | 112.0 | 109.0 |
| **CONDENSER** | HORSEPOWER | 1/6 | 1/4 | 1/4 | 1/4 | 1/4 |
| **FAN MOTOR** | RPM | 815 | 837 | 837 | 1075 | 1075 |
| | FULL LOAD AMPS | 1.1 | 1.5 | 1.5 | 1.4 | 1.4 |
| | LOCKED ROTOR AMPS | 1.7 | 3.0 | 3.0 | 2.9 | 2.9 |
| **CONDENSER** | BLADE DIAMETER (INCHES) | 22 | 22 | 22 | 22 | 22 |
| **FAN** | NUMBER OF BLADES | 3 | 3 | 3 | 3 | 3 |
| **CONDENSER** | FACE AREA (SQ. FT.) | 12.33 | 12.33 | 12.33 | 15.38 | 15.38 |
| **COIL** | NUMBER OF ROWS | 1 | 2 | 2 | 2 | 2 |
| | FINS PER INCH | 24 | 16 | 16 | 16 | 16 |
| **EVAPORATOR** | HORSEPOWER - NO. OF SPEEDS | 1/2 - 5 | 1/2 - 5 | 1/2 - 5 | 3/4 - 5 | 3/4 - 5 |
| **BLOWER** | FULL LOAD AMPS | 1.9 | 1.9 | 1.9 | 2.9 | 2.9 |
| **MOTOR** | LOCKED ROTOR AMPS | -- | -- | -- | -- | -- |
| | MOTOR SPEED TAP-COOLING X-13 | T2 | T2 | T2 | T2 | T2 |
| | RPM | 1,050 | 1,050 | 1,050 | 1,050 | 1,050 |
| **EVAPORATOR** | DIAMETER X WIDTH (INCHES) | 10 x 9 | 10 x 9 | 10 x 9 | 10 x 9 | 10 x 9 |
| **BLOWER** | RATED SCFM COOLING | 850 | 1,050 | 1,150 | 1,350 | 1,350 |
| | MAX EXTERNAL STATIC PRESS ("w.c.) | 0.5 | 0.5 | 0.5 | 0.5 | 0.5 |
| **EVAPORATOR** | FACE AREA (SQ. FT.) | 4.52 | 4.52 | 4.52 | 6.17 | 6.17 |
| **COIL** | NUMBER OF ROWS | 3 | 3 | 4 | 4 | 4 |
| | FINS PER INCH | 16 | 16 | 14 | 14 | 14 |
| **GENERAL** | FILTER SIZE * | 25 x 25 x 1 | 25 x 25 x 1 | 25 x 25 x 1 | (2) 20 x 20 x 1 | (2) 20 x 20 x 1 |
| **INFORMATION** | DRAIN SIZE (INCHES) | 3/4" | 3/4" | 3/4" | 3/4" | 3/4" |
| | EXPANSION DEVICE | 0.057 | 0.065 | 0.068 | 0.072 | 0.076 |
| | REFRIGERANT CHARGE R410A (OZS.) | 80 | 100 | 115 | 140 | 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 | 3/4, 1, 1-1/4 | 3/4, 1, 1-1/4 |
| | LOW VOLTAGE CONDUIT KNOCKOUT SIZE (INCHES) | 1/2 | 1/2 | 1/2 | 1/2 | 1/2 |
| | SHIPPING WEIGHT (LBS.) | 375 | 384 | 416 | 459 | 459 |
| | OPERATING WEIGHT (LBS.) | 354 | 363 | 395 | 438 | 438 |

(1) 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.

**⚠ 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.**

# ACCESSORIES

| ACCESSORIES - GPC/GPH****M MODELS | |
|---|---|
| **Part Number** | **Description** |
| OT18-60A | Outdoor Thermostat Kit w/Lockout Stat |
| OT/EHR18-60 | Emergency Heat Relay Kit |
| HKR | Electric Heat Kit |
| PGC101/102/103 | Roof Curb |
| PEHH101/102 | Horizontal Economizer For Heat Pump, Small and Medium Chassis |
| PEHH103 | Horizontal Economizer For Heat Pump, Large Chassis |
| PEHC101/102 | Horizontal Economizer For A/C, Small and Medium Chassis |
| PEHC103 | Horizontal Economizer For A/C, Large Chassis |
| PGMDD101/102 | Manual 25% Fresh Air Damper Downflow Application, Small and Medium Chassis |
| PGMDD103 | Manual 25% Fresh Air Damper Downflow Application, Large Chassis |
| PGMDH102 | Manual 25% Fresh Air Damper Horizontal Application, Medium Chassis |
| PGMDH103 | Manual 25% Fresh Air Damper Horizontal Application, Large Chassis |
| PGMDMD101/102 | Motorized 25% Fresh Air Damper Downflow Application,Small and Medium Chassis |
| PGMDMD103 | Motorized 25% Fresh Air Downflow Application, Large Chassis |
| PGMDMH102 | Motorized 25% Fresh Air Damper Horizontal Application, Medium Chassis |
| PGMDMH103 | Motorized 25% Fresh Air Damper Horizontal Application, Large Chassis |
| GPC13MED102 | Downflow Economizer For A/C, Medium Chassis |
| GPC13MED103 | Downflow Economizer For A/C, Large Chassis |
| GPH13MED102 | Downflow Economizer For Heat Pump, Medium Chassis |
| GPH13MED103 | Downflow Economizer For Heat Pump, Large Chassis |
| GPH13MFR102 | Internal Filter Rack, Medium Chassis |
| GPH13MFR103 | Internal Filter Rack, Large Chassis |
| GPGHFR101-103 | External Horizontal Filter Rack for Goodman/Amana Gas/Electric and Multi-position Package Units All Chassis |
| SQRPG101/102 | Square to Round Adapter w/ 16" Round Downflow Application, Medium Chassis |
| SQRPG103 | Square to Round Adapter w/ 18" Round Downflow Application, Large Chassis |
| SQRPGH101/102 | Square to Round Adapter w/ 16" Round Horizontal Application, Medium Chassis |
| SQRPGH103 | Square to Round Adapter w/ 18" Round Horizontal Application, Large Chassis |
| 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 |

# BLOWER PERFORMANCE DATA GPC15[24-48]M41A*

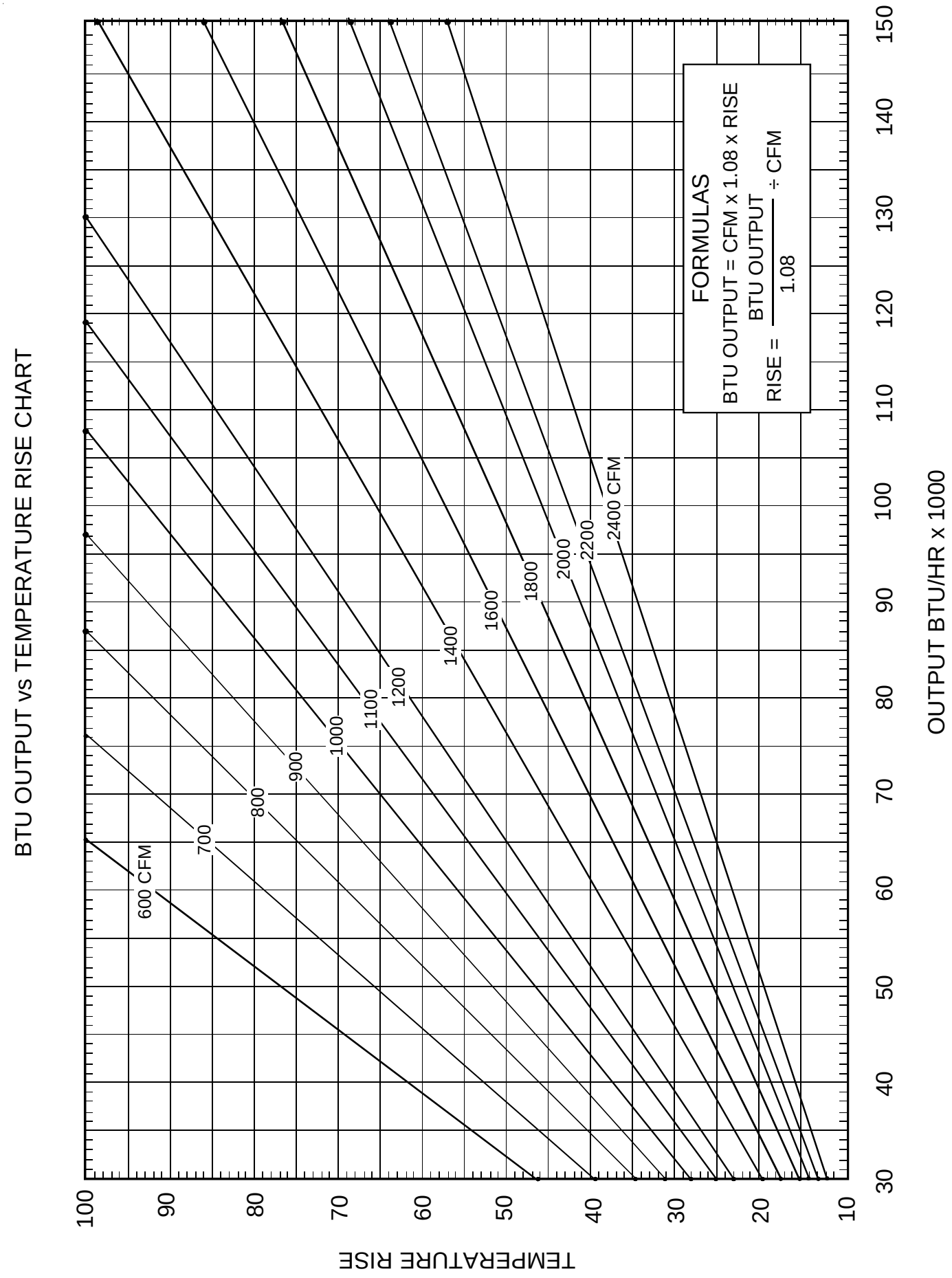
***Dry Coil Data***

| Model | Speed | Volts | | E.S.P (In. of $H_2O$) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | 0.1 | 0.2 | 0.3 | 0.4 | 0.5 | 0.6 | 0.7 | 0.8 |
| GPC1524M41* | T1 (G) | 230 | CFM | 882 | 808 | 727 | 649 | 545 | --- | --- | --- |
| | | | WATTS | 82 | 86 | 92 | 102 | 108 | --- | --- | --- |
| | T2 / T3 | 230 | CFM | 933 | 873 | 810 | 733 | 637 | 584 | --- | --- |
| | | | WATTS | 93 | 103 | 109 | 120 | 126 | 135 | --- | --- |
| | T4 / T5 | 230 | CFM | 1058 | 1012 | 945 | 896 | 816 | 723 | 672 | --- |
| | | | WATTS | 124 | 136 | 142 | 153 | 168 | 172 | 179 | --- |
| GPC1530M41* | T1 (G) | 230 | CFM | 893 | 824 | 752 | 665 | 575 | --- | --- | --- |
| | | | WATTS | 87 | 95 | 101 | 111 | 115 | --- | --- | --- |
| | T2 / T3 | 230 | CFM | 1132 | 1070 | 1011 | 959 | 889 | 827 | 733 | 669 |
| | | | WATTS | 153 | 162 | 168 | 179 | 184 | 195 | 206 | 208 |
| | T4 / T5 | 230 | CFM | 1287 | 1236 | 1165 | 1123 | 1066 | 1012 | 958 | 857 |
| | | | WATTS | 211 | 217 | 228 | 239 | 244 | 255 | 265 | 272 |
| GPC1536M41* | T1 (G) | 230 | CFM | 852 | 764 | 711 | 592 | 545 | --- | --- | --- |
| | | | WATTS | 80 | 82 | 85 | 95 | 99 | --- | --- | --- |
| | T2 / T3 | 230 | CFM | 1232 | 1190 | 1131 | 1082 | 1023 | 966 | 889 | 819 |
| | | | WATTS | 202 | 214 | 221 | 229 | 235 | 246 | 258 | 264 |
| | T4 / T5 | 230 | CFM | 1267 | 1213 | 1162 | 1120 | 1058 | 1009 | 932 | 841 |
| | | | WATTS | 218 | 226 | 236 | 245 | 247 | 260 | 272 | 275 |
| GPC1542M41* | T1 (G) | 230 | CFM | 1123 | 1070 | 1025 | 984 | 942 | 894 | 839 | 774 |
| | | | Watts | 162 | 170 | 182 | 193 | 204 | 216 | 229 | 242 |
| | T2 / T3 | 230 | CFM | 1437 | 1390 | 1354 | 1318 | 1281 | 1243 | 1204 | 1165 |
| | | | Watts | 310 | 317 | 331 | 342 | 355 | 366 | 377 | 389 |
| | T4 / T5 | 230 | CFM | 1528 | 1490 | 1450 | 1410 | 1383 | 1348 | 1312 | 1267 |
| | | | Watts | 372 | 379 | 391 | 403 | 416 | 427 | 439 | 451 |
| GPC1548M41* | T1 (G) | 230 | CFM | 1199 | 1138 | 1085 | 1017 | 957 | 889 | 820 | 755 |
| | | | WATTS | 162 | 173 | 185 | 193 | 211 | 219 | 232 | 245 |
| | T2 / T3 | 230 | CFM | 1799 | 1745 | 1698 | 1658 | 1610 | 1560 | 1522 | 1450 |
| | | | WATTS | 480 | 493 | 508 | 521 | 531 | 545 | 550 | 547 |
| | T4 / T5 | 230 | CFM | 1921 | 1865 | 1818 | 1780 | 1719 | 1667 | 1579 | 1483 |
| | | | WATTS | 582 | 585 | 602 | 625 | 627 | 621 | 595 | 569 |

NOTES:

- Data shown is Dry Coil. Wet Coil Pressure Drop is approximate. 0.1" $H_2O$, for 2 row indoor coil; 0.2" $H_2O$, for 3 row indoor coil; and 0.3" $H_2O$, for 4 row indoor coil.
- Data shown does not include filter pressure drop, approx. 0.08" $H_2O$.
- ALL MODELS SHOULD RUN NO LESS THAN 350 CFM / TON.
- Reduce airflow by 2% for 208V operation.

# BLOWER PERFORMANCE DATA



**MODEL: GPC1524M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 70 | 956 | MBh | 24.3 | 25.1 | 27.5 | - | 23.7 | 24.6 | 26.9 | - | 23.1 | 24.0 | 26.3 | - | 22.6 | 23.4 | 25.6 | - | 21.4 | 22.2 | 24.3 | - | 19.9 | 20.6 | 22.5 | - |
| | | S/T | 0.72 | 0.60 | 0.42 | - | 0.75 | 0.63 | 0.43 | - | 0.77 | 0.64 | 0.45 | - | 0.79 | 0.66 | 0.46 | - | 0.82 | 0.69 | 0.48 | - | 0.83 | 0.69 | 0.48 | - |
| | | Delta T | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 16 | 14 | 10 | - |
| | | KW | 1.51 | 1.55 | 1.62 | - | 1.66 | 1.71 | 1.78 | - | 1.80 | 1.85 | 1.92 | - | 1.91 | 1.97 | 2.04 | - | 2.01 | 2.07 | 2.15 | - | 2.10 | 2.16 | 2.24 | - |
| | | AMPS | 7.4 | 7.6 | 7.8 | - | 7.9 | 8.1 | 8.3 | - | 8.5 | 8.7 | 8.9 | - | 9.0 | 9.2 | 9.5 | - | 9.5 | 9.7 | 10.0 | - | 10.0 | 10.3 | 10.6 | - |
| | | HI PR | 249 | 268 | 283 | - | 279 | 301 | 317 | - | 318 | 342 | 361 | - | 362 | 389 | 411 | - | 407 | 438 | 463 | - | 450 | 484 | 511 | - |
| | | LO PR | 109 | 116 | 126 | - | 115 | 122 | 134 | - | 120 | 127 | 139 | - | 126 | 134 | 146 | - | 132 | 140 | 153 | - | 136 | 145 | 158 | - |
| | 850 | MBh | 23.5 | 24.4 | 26.7 | - | 23.0 | 23.8 | 26.1 | - | 22.4 | 23.3 | 25.5 | - | 21.9 | 22.7 | 24.9 | - | 20.8 | 21.6 | 23.6 | - | 19.3 | 20.0 | 21.9 | - |
| | | S/T | 0.69 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.76 | 0.63 | 0.44 | - | 0.79 | 0.66 | 0.46 | - | 0.79 | 0.66 | 0.46 | - |
| | | Delta T | 18 | 15 | 12 | - | 18 | 15 | 12 | - | 18 | 15 | 12 | - | 18 | 16 | 12 | - | 18 | 15 | 12 | - | 17 | 14 | 11 | - |
| | | KW | 1.50 | 1.54 | 1.60 | - | 1.65 | 1.69 | 1.76 | - | 1.78 | 1.83 | 1.90 | - | 1.89 | 1.95 | 2.02 | - | 1.99 | 2.05 | 2.13 | - | 2.08 | 2.13 | 2.22 | - |
| | | AMPS | 7.3 | 7.5 | 7.7 | - | 7.9 | 8.0 | 8.2 | - | 8.4 | 8.6 | 8.9 | - | 8.9 | 9.1 | 9.4 | - | 9.5 | 9.7 | 10.0 | - | 10.0 | 10.2 | 10.5 | - |
| | | HI PR | 246 | 265 | 280 | - | 277 | 298 | 314 | - | 314 | 338 | 357 | - | 358 | 385 | 407 | - | 403 | 434 | 458 | - | 445 | 479 | 506 | - |
| | | LO PR | 108 | 115 | 125 | - | 114 | 121 | 132 | - | 118 | 126 | 138 | - | 124 | 132 | 144 | - | 130 | 139 | 151 | - | 135 | 143 | 157 | - |
| | 744 | MBh | 21.7 | 22.5 | 24.7 | - | 21.2 | 22.0 | 24.1 | - | 20.7 | 21.5 | 23.5 | - | 20.2 | 21.0 | 23.0 | - | 19.2 | 19.9 | 21.8 | - | 17.8 | 18.4 | 20.2 | - |
| | | S/T | 0.67 | 0.56 | 0.39 | - | 0.69 | 0.58 | 0.40 | - | 0.71 | 0.59 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.76 | 0.63 | 0.44 | - | 0.76 | 0.64 | 0.44 | - |
| | | Delta T | 18 | 15 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 1.45 | 1.49 | 1.55 | - | 1.60 | 1.64 | 1.71 | - | 1.72 | 1.77 | 1.84 | - | 1.84 | 1.89 | 1.96 | - | 1.93 | 1.98 | 2.06 | - | 2.01 | 2.07 | 2.15 | - |
| | | AMPS | 7.2 | 7.3 | 7.5 | - | 7.7 | 7.8 | 8.0 | - | 8.2 | 8.4 | 8.7 | - | 8.7 | 8.9 | 9.2 | - | 9.2 | 9.4 | 9.7 | - | 9.7 | 9.9 | 10.2 | - |
| | | HI PR | 239 | 257 | 272 | - | 268 | 289 | 305 | - | 305 | 328 | 347 | - | 347 | 374 | 395 | - | 391 | 421 | 444 | - | 432 | 465 | 491 | - |
| | | LO PR | 105 | 111 | 121 | - | 111 | 118 | 128 | - | 115 | 122 | 133 | - | 121 | 128 | 140 | - | 126 | 135 | 147 | - | 131 | 139 | 152 | - |
| 75 | 956 | MBh | 24.7 | 25.4 | 27.5 | 29.5 | 24.1 | 24.8 | 26.8 | 28.8 | 23.5 | 24.2 | 26.2 | 28.1 | 22.9 | **23.6** | 25.6 | 27.4 | 21.8 | 22.4 | 24.3 | 26.1 | 20.2 | 20.8 | 22.5 | 24.1 |
| | | 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 | 20 | 18 | 15 | 10 | 20 | 18 | 15 | 10 | 20 | 18 | 15 | 10 | 20 | **18** | 15 | 10 | 20 | 18 | 15 | 10 | 18 | 17 | 14 | 10 |
| | | KW | 1.53 | 1.57 | 1.63 | 1.70 | 1.68 | 1.73 | 1.80 | 1.87 | 1.81 | 1.86 | 1.94 | 2.02 | 1.93 | **1.99** | 2.07 | 2.15 | 2.03 | 2.09 | 2.17 | 2.26 | 2.12 | 2.18 | 2.27 | 2.36 |
| | | AMPS | 7.5 | 7.6 | 7.8 | 8.1 | 8.0 | 8.1 | 8.4 | 8.7 | 8.6 | 8.8 | 9.0 | 9.3 | 9.1 | **9.3** | 9.6 | 9.9 | 9.6 | 9.8 | 10.1 | 10.5 | 10.1 | 10.4 | 10.7 | 11.0 |
| | | HI PR | 251 | 271 | 286 | 298 | 282 | 304 | 321 | 334 | 321 | 345 | 365 | 380 | 365 | **393** | 415 | 433 | 411 | 442 | 467 | 487 | 454 | 489 | 516 | 538 |
| | | LO PR | 110 | 117 | 128 | 136 | 116 | 124 | 135 | 144 | 121 | 129 | 140 | 149 | 127 | **135** | 147 | 157 | 133 | 141 | 154 | 164 | 138 | 146 | 160 | 170 |
| | 850 | MBh | 23.9 | 24.7 | 26.7 | 28.6 | 23.4 | 24.1 | 26.1 | 28.0 | 22.8 | 23.5 | 25.4 | 27.3 | 22.3 | **22.9** | 24.8 | 26.6 | 21.2 | 21.8 | 23.6 | 25.3 | 19.6 | 20.2 | 21.8 | 23.4 |
| | | S/T | 0.79 | 0.70 | 0.53 | 0.34 | 0.81 | 0.73 | 0.55 | 0.35 | 0.83 | 0.75 | 0.56 | 0.36 | 0.86 | **0.77** | 0.58 | 0.38 | 0.89 | 0.80 | 0.61 | 0.39 | 0.90 | 0.81 | 0.61 | 0.39 |
| | | Delta T | 20 | 19 | 15 | 11 | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | **19** | 16 | 11 | 20 | 19 | 15 | 11 | 19 | 18 | 14 | 10 |
| | | KW | 1.51 | 1.56 | 1.62 | 1.68 | 1.66 | 1.71 | 1.78 | 1.85 | 1.80 | 1.85 | 1.92 | 2.00 | 1.91 | **1.97** | 2.04 | 2.13 | 2.01 | 2.07 | 2.15 | 2.24 | 2.10 | 2.16 | 2.24 | 2.33 |
| | | AMPS | 7.4 | 7.6 | 7.8 | 8.0 | 7.9 | 8.1 | 8.3 | 8.6 | 8.5 | 8.7 | 8.9 | 9.2 | 9.0 | **9.2** | 9.5 | 9.8 | 9.5 | 9.7 | 10.0 | 10.4 | 10.0 | 10.3 | 10.6 | 10.9 |
| | | 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 |
| | | LO PR | 109 | 116 | 127 | 135 | 115 | 122 | 134 | 142 | 120 | 127 | 139 | 148 | 126 | **134** | 146 | 155 | 132 | 140 | 153 | 163 | 136 | 145 | 158 | 168 |
| | 744 | MBh | 22.1 | 22.8 | 24.6 | 26.4 | 21.6 | 22.2 | 24.1 | 25.8 | 21.1 | 21.7 | 23.5 | 25.2 | 20.6 | **21.2** | 22.9 | 24.6 | 19.5 | 20.1 | 21.8 | 23.4 | 18.1 | 18.6 | 20.2 | 21.6 |
| | | S/T | 0.76 | 0.68 | 0.51 | 0.33 | 0.78 | 0.70 | 0.53 | 0.34 | 0.80 | 0.72 | 0.54 | 0.35 | 0.83 | **0.74** | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.38 | 0.87 | 0.78 | 0.59 | 0.38 |
| | | Delta T | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | 19 | 16 | 11 | 21 | **19** | 16 | 11 | 21 | 19 | 16 | 11 | 19 | 18 | 15 | 10 |
| | | KW | 1.47 | 1.51 | 1.57 | 1.63 | 1.61 | 1.66 | 1.72 | 1.79 | 1.74 | 1.79 | 1.86 | 1.94 | 1.86 | **1.91** | 1.98 | 2.06 | 1.95 | 2.00 | 2.09 | 2.17 | 2.04 | 2.09 | 2.17 | 2.26 |
| | | AMPS | 7.2 | 7.4 | 7.6 | 7.8 | 7.7 | 7.9 | 8.1 | 8.4 | 8.3 | 8.5 | 8.7 | 9.0 | 8.8 | **9.0** | 9.3 | 9.6 | 9.3 | 9.5 | 9.8 | 10.1 | 9.8 | 10.0 | 10.3 | 10.7 |
| | | HI PR | 241 | 260 | 274 | 286 | 271 | 292 | 308 | 321 | 308 | 332 | 350 | 365 | 351 | **378** | 399 | 416 | 395 | 425 | 449 | 468 | 436 | 470 | 496 | 517 |
| | | LO PR | 106 | 112 | 123 | 131 | 112 | 119 | 130 | 138 | 116 | 123 | 135 | 144 | 122 | **130** | 142 | 151 | 128 | 136 | 148 | 158 | 132 | 141 | 153 | 163 |

* 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: GPC1524M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 80 | 956 | MBh | 25.1 | 25.6 | 27.4 | 29.3 | 24.5 | 25.1 | 26.8 | 28.6 | 23.9 | 24.5 | 26.1 | 27.9 | 23.3 | 23.9 | 25.5 | 27.2 | 22.2 | 22.7 | 24.2 | 25.9 | 20.5 | 21.0 | 22.4 | 24.0 |
| | | 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 | 1.00 | 0.93 | 0.76 | 0.57 | 1.00 | 0.96 | 0.78 | 0.59 | 1.00 | 1.00 | 0.79 | 0.59 |
| | | Delta T | 22 | 21 | 18 | 15 | 22 | 21 | 18 | 15 | 22 | 21 | 18 | 15 | 22 | 21 | 19 | 15 | 21 | 21 | 18 | 15 | 20 | 20 | 17 | 14 |
| | | KW | 1.54 | 1.59 | 1.65 | 1.72 | 1.70 | 1.74 | 1.82 | 1.89 | 1.83 | 1.88 | 1.96 | 2.04 | 1.95 | 2.01 | 2.09 | 2.17 | 2.05 | 2.11 | 2.20 | 2.28 | 2.14 | 2.20 | 2.29 | 2.38 |
| | | AMPS | 7.5 | 7.7 | 7.9 | 8.1 | 8.0 | 8.2 | 8.4 | 8.7 | 8.6 | 8.8 | 9.1 | 9.4 | 9.2 | 9.4 | 9.6 | 10.0 | 9.7 | 9.9 | 10.2 | 10.6 | 10.2 | 10.4 | 10.8 | 11.1 |
| | | HI PR | 254 | 273 | 289 | 301 | 285 | 307 | 324 | 338 | 324 | 349 | 368 | 384 | 369 | 397 | 420 | 438 | 415 | 447 | 472 | 492 | 459 | 494 | 521 | 544 |
| | | LO PR | 111 | 118 | 129 | 137 | 117 | 125 | 136 | 145 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 134 | 143 | 156 | 166 | 139 | 148 | 161 | 172 |
| | 850 | MBh | 24.4 | 24.9 | 26.6 | 28.4 | 23.8 | 24.3 | 26.0 | 27.8 | 23.2 | 23.7 | 25.4 | 27.1 | 22.7 | 23.2 | **24.7** | 26.5 | 21.5 | 22.0 | 23.5 | 25.1 | 19.9 | 20.4 | 21.8 | 23.3 |
| | | S/T | 0.86 | 0.81 | 0.66 | 0.49 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.94 | 0.89 | **0.72** | 0.54 | 0.98 | 0.92 | 0.75 | 0.56 | 0.99 | 0.93 | 0.75 | 0.56 |
| | | Delta T | 23 | 22 | 19 | 15 | 23 | 22 | 19 | 15 | 23 | 22 | 19 | 15 | 23 | 22 | **19** | 15 | 23 | 22 | 19 | 15 | 21 | 20 | 18 | 14 |
| | | KW | 1.53 | 1.57 | 1.63 | 1.70 | 1.68 | 1.73 | 1.80 | 1.87 | 1.82 | 1.86 | 1.94 | 2.02 | 1.93 | 1.99 | **2.07** | 2.15 | 2.03 | 2.09 | 2.17 | 2.26 | 2.12 | 2.18 | 2.27 | 2.36 |
| | | AMPS | 7.5 | 7.6 | 7.8 | 8.1 | 8.0 | 8.1 | 8.4 | 8.7 | 8.6 | 8.8 | 9.0 | 9.3 | 9.1 | 9.3 | **9.6** | 9.9 | 9.6 | 9.8 | 10.1 | 10.5 | 10.1 | 10.4 | 10.7 | 11.0 |
| | | HI PR | 251 | 271 | 286 | 298 | 282 | 304 | 321 | 334 | 321 | 345 | 365 | 380 | 366 | 393 | **415** | 433 | 411 | 443 | 467 | 487 | 454 | 489 | 516 | 538 |
| | | LO PR | 110 | 117 | 128 | 136 | 116 | 124 | 135 | 144 | 121 | 129 | 140 | 149 | 127 | 135 | **147** | 157 | 133 | 141 | 154 | 165 | 138 | 146 | 160 | 170 |
| | 744 | MBh | 22.5 | 23.0 | 24.6 | 26.3 | 22.0 | 22.4 | 24.0 | 25.6 | 21.4 | 21.9 | 23.4 | 25.0 | 20.9 | 21.4 | 22.8 | 24.4 | 19.9 | 20.3 | 21.7 | 23.2 | 18.4 | 18.8 | 20.1 | 21.5 |
| | | S/T | 0.83 | 0.78 | 0.63 | 0.47 | 0.86 | 0.81 | 0.66 | 0.49 | 0.88 | 0.83 | 0.67 | 0.50 | 0.91 | 0.85 | 0.70 | 0.52 | 0.95 | 0.89 | 0.72 | 0.54 | 0.95 | 0.89 | 0.73 | 0.54 |
| | | Delta T | 23 | 22 | 19 | 15 | 23 | 22 | 19 | 16 | 23 | 22 | 19 | 16 | 24 | 23 | 20 | 16 | 23 | 22 | 19 | 15 | 22 | 21 | 18 | 14 |
| | | KW | 1.48 | 1.52 | 1.58 | 1.65 | 1.63 | 1.67 | 1.74 | 1.81 | 1.76 | 1.81 | 1.88 | 1.96 | 1.87 | 1.93 | 2.00 | 2.08 | 1.97 | 2.03 | 2.11 | 2.19 | 2.06 | 2.11 | 2.20 | 2.29 |
| | | AMPS | 7.3 | 7.4 | 7.6 | 7.9 | 7.8 | 8.0 | 8.2 | 8.4 | 8.4 | 8.5 | 8.8 | 9.1 | 8.9 | 9.1 | 9.3 | 9.6 | 9.4 | 9.6 | 9.9 | 10.2 | 9.9 | 10.1 | 10.4 | 10.8 |
| | | HI PR | 244 | 262 | 277 | 289 | 274 | 295 | 311 | 324 | 311 | 335 | 354 | 369 | 355 | 382 | 403 | 420 | 399 | 429 | 453 | 473 | 441 | 474 | 501 | 522 |
| | | LO PR | 107 | 114 | 124 | 132 | 113 | 120 | 131 | 139 | 117 | 125 | 136 | 145 | 123 | 131 | 143 | 152 | 129 | 137 | 150 | 160 | 133 | 142 | 155 | 165 |
| | | | NOTE: Shaded area reflects AHRI rating conditions | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 956 | MBh | 25.5 | 26.0 | 27.3 | 29.1 | 24.9 | 25.4 | 26.6 | 28.4 | 24.4 | 24.8 | 26.0 | 27.7 | 23.8 | 24.2 | 25.4 | 27.1 | 22.6 | 23.0 | 24.1 | 25.7 | 20.9 | 21.3 | 22.3 | 23.8 |
| | | 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 | 23 | 23 | 22 | 19 | 24 | 23 | 22 | 19 | 23 | 23 | 22 | 19 | 23 | 23 | 22 | 19 | 22 | 22 | 22 | 19 | 20 | 20 | 20 | 18 |
| | | KW | 1.56 | 1.60 | 1.67 | 1.74 | 1.72 | 1.76 | 1.83 | 1.91 | 1.85 | 1.90 | 1.98 | 2.06 | 1.97 | 2.03 | 2.11 | 2.19 | 2.08 | 2.13 | 2.22 | 2.31 | 2.16 | 2.22 | 2.31 | 2.41 |
| | | AMPS | 7.6 | 7.7 | 7.9 | 8.2 | 8.1 | 8.3 | 8.5 | 8.8 | 8.7 | 8.9 | 9.2 | 9.5 | 9.2 | 9.4 | 9.7 | 10.1 | 9.8 | 10.0 | 10.3 | 10.6 | 10.3 | 10.5 | 10.8 | 11.2 |
| | | HI PR | 257 | 276 | 292 | 304 | 288 | 310 | 327 | 341 | 327 | 352 | 372 | 388 | 373 | 401 | 424 | 442 | 419 | 451 | 477 | 497 | 463 | 499 | 527 | 549 |
| | | LO PR | 112 | 119 | 130 | 139 | 119 | 126 | 138 | 147 | 123 | 131 | 143 | 152 | 129 | 138 | 150 | 160 | 136 | 144 | 158 | 168 | 140 | 149 | 163 | 174 |
| | 850 | MBh | 24.8 | 25.3 | 26.5 | 28.2 | 24.2 | 24.7 | 25.9 | 27.6 | 23.6 | 24.1 | 25.2 | 26.9 | 23.1 | 23.5 | 24.6 | 26.3 | 21.9 | 22.3 | 23.4 | 25.0 | 20.3 | 20.7 | 21.7 | 23.1 |
| | | S/T | 0.90 | 0.87 | 0.79 | 0.64 | 0.94 | 0.90 | 0.81 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.99 | 0.90 | 0.73 | 1.00 | 1.00 | 0.90 | 0.73 |
| | | Delta T | 24 | 24 | 23 | 19 | 25 | 24 | 23 | 20 | 25 | 24 | 23 | 20 | 25 | 24 | 23 | 20 | 24 | 24 | 23 | 20 | 22 | 22 | 21 | 18 |
| | | KW | 1.54 | 1.59 | 1.65 | 1.72 | 1.70 | 1.74 | 1.82 | 1.89 | 1.83 | 1.88 | 1.96 | 2.04 | 1.95 | 2.01 | 2.09 | 2.17 | 2.05 | 2.11 | 2.20 | 2.28 | 2.14 | 2.20 | 2.29 | 2.38 |
| | | AMPS | 7.5 | 7.7 | 7.9 | 8.1 | 8.0 | 8.2 | 8.4 | 8.7 | 8.6 | 8.8 | 9.1 | 9.4 | 9.2 | 9.4 | 9.6 | 10.0 | 9.7 | 9.9 | 10.2 | 10.6 | 10.2 | 10.4 | 10.8 | 11.1 |
| | | HI PR | 254 | 273 | 289 | 301 | 285 | 307 | 324 | 338 | 324 | 349 | 368 | 384 | 369 | 397 | 420 | 438 | 415 | 447 | 472 | 492 | 459 | 494 | 521 | 544 |
| | | LO PR | 111 | 118 | 129 | 137 | 117 | 125 | 136 | 145 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 134 | 143 | 156 | 166 | 139 | 148 | 161 | 172 |
| | 744 | MBh | 22.9 | 23.3 | 24.4 | 26.1 | 22.4 | 22.8 | 23.9 | 25.5 | 21.8 | 22.2 | 23.3 | 24.9 | 21.3 | 21.7 | 22.7 | 24.2 | 20.2 | 20.6 | 21.6 | 23.0 | 18.7 | 19.1 | 20.0 | 21.3 |
| | | S/T | 0.87 | 0.84 | 0.76 | 0.62 | 0.90 | 0.87 | 0.79 | 0.64 | 0.93 | 0.89 | 0.81 | 0.65 | 0.96 | 0.92 | 0.83 | 0.67 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.96 | 0.87 | 0.71 |
| | | Delta T | 25 | 24 | 23 | 20 | 25 | 25 | 23 | 20 | 25 | 25 | 23 | 20 | 25 | 25 | 23 | 20 | 25 | 24 | 23 | 20 | 23 | 23 | 22 | 19 |
| | | KW | 1.50 | 1.54 | 1.60 | 1.67 | 1.65 | 1.69 | 1.76 | 1.83 | 1.78 | 1.83 | 1.90 | 1.98 | 1.89 | 1.94 | 2.02 | 2.11 | 1.99 | 2.05 | 2.13 | 2.22 | 2.08 | 2.13 | 2.22 | 2.31 |
| | | AMPS | 7.3 | 7.5 | 7.7 | 7.9 | 7.8 | 8.0 | 8.2 | 8.5 | 8.4 | 8.6 | 8.9 | 9.2 | 8.9 | 9.1 | 9.4 | 9.7 | 9.5 | 9.7 | 10.0 | 10.3 | 10.0 | 10.2 | 10.5 | 10.8 |
| | | HI PR | 246 | 265 | 280 | 292 | 276 | 297 | 314 | 328 | 314 | 338 | 357 | 373 | 358 | 385 | 407 | 424 | 403 | 434 | 458 | 477 | 445 | 479 | 506 | 528 |
| | | LO PR | 108 | 115 | 125 | 133 | 114 | 121 | 132 | 141 | 118 | 126 | 137 | 146 | 124 | 132 | 144 | 154 | 130 | 139 | 151 | 161 | 135 | 143 | 157 | 167 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

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

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

## MODEL: GPC1530M41

# EXPANDED PERFORMANCE DATA

## COOLING OPERATION

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 70 | 1181 | MBh | 27.9 | 28.9 | 31.7 | - | 27.3 | 28.3 | 31.0 | - | 26.6 | 27.6 | 30.2 | - | 26.0 | 26.9 | 29.5 | - | 24.7 | 25.6 | 28.0 | - | 22.8 | 23.7 | 25.9 | - |
| | | 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 | 0.69 | 0.48 | - | 0.84 | 0.70 | 0.49 | - |
| | | Delta T | 16 | 14 | 10 | - | 16 | 14 | 11 | - | 16 | 14 | 11 | - | 16 | 14 | 11 | - | 16 | 14 | 10 | - | 15 | 13 | 10 | - |
| | | KW | 1.72 | 1.76 | 1.83 | - | 1.89 | 1.94 | 2.01 | - | 2.03 | 2.09 | 2.17 | - | 2.16 | 2.22 | 2.31 | - | 2.27 | 2.33 | 2.42 | - | 2.37 | 2.43 | 2.52 | - |
| | | AMPS | 8.5 | 8.7 | 8.9 | - | 9.1 | 9.3 | 9.5 | - | 9.7 | 9.9 | 10.2 | - | 10.3 | 10.5 | 10.8 | - | 10.9 | 11.1 | 11.4 | - | 11.4 | 11.6 | 12.0 | - |
| | | HI PR | 232 | 249 | 263 | - | 260 | 280 | 296 | - | 296 | 318 | 336 | - | 337 | 363 | 383 | - | 379 | 408 | 431 | - | 419 | 451 | 476 | - |
| | | LO PR | 108 | 115 | 125 | - | 114 | 121 | 132 | - | 118 | 126 | 137 | - | 124 | 132 | 144 | - | 130 | 139 | 151 | - | 135 | 143 | 157 | - |
| | 1050 | MBh | 27.1 | 28.1 | 30.8 | - | 26.5 | 27.4 | 30.1 | - | 25.8 | 26.8 | 29.3 | - | 25.2 | 26.1 | 28.6 | - | 23.9 | 24.8 | 27.2 | - | 22.2 | 23.0 | 25.2 | - |
| | | 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 | - |
| | | Delta T | 17 | 14 | 11 | - | 17 | 14 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 14 | 11 | - | 16 | 13 | 10 | - |
| | | KW | 1.70 | 1.75 | 1.82 | - | 1.87 | 1.92 | 1.99 | - | 2.01 | 2.07 | 2.15 | - | 2.14 | 2.20 | 2.28 | - | 2.25 | 2.31 | 2.40 | - | 2.34 | 2.41 | 2.50 | - |
| | | AMPS | 8.5 | 8.6 | 8.9 | - | 9.0 | 9.2 | 9.5 | - | 9.7 | 9.9 | 10.1 | - | 10.2 | 10.4 | 10.7 | - | 10.8 | 11.0 | 11.3 | - | 11.3 | 11.6 | 11.9 | - |
| | | HI PR | 230 | 247 | 261 | - | 258 | 277 | 293 | - | 293 | 315 | 333 | - | 334 | 359 | 379 | - | 375 | 404 | 426 | - | 415 | 446 | 471 | - |
| | | LO PR | 107 | 114 | 124 | - | 113 | 120 | 131 | - | 117 | 125 | 136 | - | 123 | 131 | 143 | - | 129 | 137 | 150 | - | 133 | 142 | 155 | - |
| | 919 | MBh | 25.0 | 25.9 | 28.4 | - | 24.4 | 25.3 | 27.7 | - | 23.8 | 24.7 | 27.1 | - | 23.3 | 24.1 | 26.4 | - | 22.1 | 22.9 | 25.1 | - | 20.5 | 21.2 | 23.2 | - |
| | | S/T | 0.67 | 0.56 | 0.39 | - | 0.70 | 0.58 | 0.40 | - | 0.71 | 0.60 | 0.41 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.77 | 0.64 | 0.45 | - |
| | | Delta T | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 17 | 15 | 11 | - | 16 | 14 | 10 | - |
| | | KW | 1.65 | 1.70 | 1.76 | - | 1.81 | 1.86 | 1.93 | - | 1.95 | 2.00 | 2.08 | - | 2.08 | 2.13 | 2.22 | - | 2.18 | 2.24 | 2.33 | - | 2.27 | 2.33 | 2.43 | - |
| | | AMPS | 8.3 | 8.5 | 8.7 | - | 8.8 | 9.0 | 9.2 | - | 9.4 | 9.6 | 9.9 | - | 10.0 | 10.2 | 10.5 | - | 10.5 | 10.7 | 11.0 | - | 11.0 | 11.3 | 11.6 | - |
| | | HI PR | 223 | 240 | 253 | - | 250 | 269 | 284 | - | 284 | 306 | 323 | - | 324 | 348 | 368 | - | 364 | 392 | 414 | - | 402 | 433 | 457 | - |
| | | LO PR | 104 | 110 | 120 | - | 109 | 116 | 127 | - | 114 | 121 | 132 | - | 119 | 127 | 139 | - | 125 | 133 | 145 | - | 129 | 138 | 150 | - |
| 75 | 1181 | MBh | 28.4 | 29.2 | 31.6 | 33.9 | 27.7 | 28.5 | 30.9 | 33.2 | 27.1 | 27.9 | 30.2 | 32.4 | 26.4 | **27.2** | 29.4 | 31.6 | 25.1 | 25.8 | 28.0 | 30.0 | 23.2 | 23.9 | 25.9 | 27.8 |
| | | S/T | 0.83 | 0.74 | 0.56 | 0.36 | 0.86 | 0.77 | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.38 | 0.91 | **0.81** | 0.62 | 0.40 | 0.95 | 0.85 | 0.64 | 0.41 | 0.95 | 0.85 | 0.65 | 0.42 |
| | | Delta T | 18 | 17 | 14 | 10 | 19 | 17 | 14 | 10 | 19 | 17 | 14 | 10 | 19 | **17** | 14 | 10 | 18 | 17 | 14 | 10 | 17 | 16 | 13 | 9 |
| | | KW | 1.74 | 1.78 | 1.85 | 1.93 | 1.90 | 1.96 | 2.03 | 2.11 | 2.05 | 2.11 | 2.19 | 2.28 | 2.18 | **2.24** | 2.33 | 2.42 | 2.29 | 2.36 | 2.45 | 2.55 | 2.39 | 2.45 | 2.55 | 2.65 |
| | | AMPS | 8.6 | 8.8 | 9.0 | 9.3 | 9.2 | 9.3 | 9.6 | 9.9 | 9.8 | 10.0 | 10.3 | 10.6 | 10.4 | **10.6** | 10.9 | 11.2 | 10.9 | 11.2 | 11.5 | 11.9 | 11.5 | 11.7 | 12.1 | 12.5 |
| | | HI PR | 234 | 252 | 266 | 278 | 263 | 283 | 299 | 311 | 299 | 322 | 340 | 354 | 340 | **366** | 387 | 403 | 383 | 412 | 435 | 454 | 423 | 455 | 481 | 501 |
| | | LO PR | 109 | 116 | 126 | 135 | 115 | 122 | 134 | 142 | 120 | 127 | 139 | 148 | 126 | **134** | 146 | 155 | 132 | 140 | 153 | 163 | 136 | 145 | 158 | 168 |
| | 1050 | MBh | 27.6 | 28.4 | 30.7 | 33.0 | 26.9 | 27.7 | 30.0 | 32.2 | 26.3 | 27.0 | 29.3 | 31.4 | 25.6 | **26.4** | 28.6 | 30.7 | 24.3 | 25.1 | 27.1 | 29.1 | 22.6 | 23.2 | 25.1 | 27.0 |
| | | S/T | 0.79 | 0.71 | 0.54 | 0.35 | 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 | 19 | 18 | 14 | 10 | 19 | 18 | 15 | 10 | 19 | 18 | 15 | 10 | 20 | **18** | 15 | 10 | 19 | 18 | 15 | 10 | 18 | 17 | 14 | 9 |
| | | KW | 1.72 | 1.77 | 1.83 | 1.91 | 1.89 | 1.94 | 2.01 | 2.09 | 2.03 | 2.09 | 2.17 | 2.26 | 2.16 | **2.22** | 2.31 | 2.40 | 2.27 | 2.33 | 2.42 | 2.52 | 2.37 | 2.43 | 2.53 | 2.63 |
| | | AMPS | 8.5 | 8.7 | 8.9 | 9.2 | 9.1 | 9.3 | 9.5 | 9.8 | 9.7 | 9.9 | 10.2 | 10.5 | 10.3 | **10.5** | 10.8 | 11.2 | 10.9 | 11.1 | 11.4 | 11.8 | 11.4 | 11.6 | 12.0 | 12.4 |
| | | HI PR | 232 | 249 | 263 | 275 | 260 | 280 | 296 | 308 | 296 | 318 | 336 | 351 | 337 | **363** | 383 | 399 | 379 | 408 | 431 | 449 | 419 | 451 | 476 | 496 |
| | | LO PR | 108 | 115 | 125 | 133 | 114 | 121 | 132 | 141 | 118 | 126 | 138 | 146 | 124 | **132** | 144 | 154 | 130 | 139 | 151 | 161 | 135 | 143 | 157 | 167 |
| | 919 | MBh | 25.4 | 26.2 | 28.3 | 30.4 | 24.8 | 25.6 | 27.7 | 29.7 | 24.2 | 25.0 | 27.0 | 29.0 | 23.7 | **24.4** | 26.4 | 28.3 | 22.5 | 23.1 | 25.0 | 26.9 | 20.8 | 21.4 | 23.2 | 24.9 |
| | | S/T | 0.76 | 0.68 | 0.52 | 0.33 | 0.79 | 0.71 | 0.54 | 0.34 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | **0.75** | 0.57 | 0.36 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.78 | 0.59 | 0.38 |
| | | Delta T | 19 | 18 | 15 | 10 | 20 | 18 | 15 | 10 | 20 | 18 | 15 | 10 | 20 | **18** | 15 | 10 | 20 | 18 | 15 | 10 | 18 | 17 | 14 | 10 |
| | | KW | 1.67 | 1.71 | 1.78 | 1.85 | 1.83 | 1.88 | 1.95 | 2.03 | 1.97 | 2.02 | 2.10 | 2.19 | 2.10 | **2.15** | 2.24 | 2.33 | 2.20 | 2.26 | 2.35 | 2.45 | 2.30 | 2.36 | 2.45 | 2.55 |
| | | AMPS | 8.4 | 8.5 | 8.7 | 9.0 | 8.9 | 9.1 | 9.3 | 9.6 | 9.5 | 9.7 | 10.0 | 10.3 | 10.1 | **10.3** | 10.6 | 10.9 | 10.6 | 10.8 | 11.1 | 11.5 | 11.1 | 11.4 | 11.7 | 12.1 |
| | | HI PR | 225 | 242 | 256 | 267 | 252 | 272 | 287 | 299 | 287 | 309 | 326 | 340 | 327 | **352** | 371 | 387 | 368 | 396 | 418 | 436 | 406 | 437 | 462 | 482 |
| | | LO PR | 105 | 111 | 121 | 129 | 110 | 118 | 128 | 137 | 115 | 122 | 133 | 142 | 121 | **128** | 140 | 149 | 126 | 134 | 147 | 156 | 131 | 139 | 152 | 162 |

* 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: GPC1530M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 80 | 1181 | MBh | 28.9 | 29.5 | 31.5 | 33.7 | 28.2 | 28.8 | 30.8 | 32.9 | 27.5 | 28.1 | 30.1 | 32.1 | 26.9 | 27.5 | 29.3 | 31.4 | 25.5 | 26.1 | 27.9 | 29.8 | 23.6 | 24.2 | 25.8 | 27.6 |
| | | S/T | 0.91 | 0.85 | 0.70 | 0.52 | 0.94 | 0.89 | 0.72 | 0.54 | 0.97 | 0.91 | 0.74 | 0.55 | 1.00 | 0.94 | 0.76 | 0.57 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.80 | 0.60 |
| | | Delta T | 20 | 20 | 17 | 14 | 21 | 20 | 17 | 14 | 21 | 20 | 17 | 14 | 21 | 20 | 17 | 14 | 20 | 20 | 17 | 14 | 18 | 19 | 16 | 13 |
| | | KW | 1.75 | 1.80 | 1.87 | 1.95 | 1.92 | 1.97 | 2.05 | 2.13 | 2.07 | 2.13 | 2.21 | 2.30 | 2.21 | 2.26 | 2.35 | 2.45 | 2.32 | 2.38 | 2.47 | 2.57 | 2.41 | 2.48 | 2.58 | 2.68 |
| | | AMPS | 8.7 | 8.8 | 9.1 | 9.3 | 9.2 | 9.4 | 9.7 | 10.0 | 9.9 | 10.1 | 10.4 | 10.7 | 10.5 | 10.7 | 11.0 | 11.3 | 11.0 | 11.3 | 11.6 | 12.0 | 11.6 | 11.8 | 12.2 | 12.6 |
| | | HI PR | 237 | 255 | 269 | 280 | 265 | 286 | 302 | 315 | 302 | 325 | 343 | 358 | 344 | 370 | 391 | 407 | 387 | 416 | 440 | 458 | 427 | 460 | 486 | 506 |
| | | LO PR | 110 | 117 | 128 | 136 | 116 | 124 | 135 | 144 | 121 | 129 | 140 | 149 | 127 | 135 | 147 | 157 | 133 | 141 | 154 | 164 | 138 | 146 | 160 | 170 |
| | 1050 | MBh | 28.0 | 28.7 | 30.6 | 32.7 | 27.4 | 28.0 | 29.9 | 32.0 | 26.7 | 27.3 | 29.2 | 31.2 | 26.1 | 26.7 | **28.5** | 30.4 | 24.8 | 25.3 | 27.1 | 28.9 | 23.0 | 23.5 | 25.1 | 26.8 |
| | | 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 | 0.76 | 0.56 | 1.00 | 0.94 | 0.76 | 0.57 |
| | | Delta T | 21 | 20 | 18 | 14 | 22 | 21 | 18 | 14 | 22 | 21 | 18 | 14 | 22 | 21 | **18** | 14 | 21 | 21 | 18 | 14 | 20 | 19 | 17 | 13 |
| | | KW | 1.74 | 1.78 | 1.85 | 1.93 | 1.90 | 1.96 | 2.03 | 2.11 | 2.05 | 2.11 | 2.19 | 2.28 | 2.18 | 2.24 | **2.33** | 2.42 | 2.29 | 2.36 | 2.45 | 2.55 | 2.39 | 2.45 | 2.55 | 2.65 |
| | | AMPS | 8.6 | 8.8 | 9.0 | 9.3 | 9.2 | 9.3 | 9.6 | 9.9 | 9.8 | 10.0 | 10.3 | 10.6 | 10.4 | 10.6 | **10.9** | 11.2 | 10.9 | 11.2 | 11.5 | 11.9 | 11.5 | 11.7 | 12.1 | 12.5 |
| | | HI PR | 234 | 252 | 266 | 278 | 263 | 283 | 299 | 311 | 299 | 322 | 340 | 354 | 340 | 366 | **387** | 403 | 383 | 412 | 435 | 454 | 423 | 455 | 481 | 501 |
| | | LO PR | 109 | 116 | 126 | 135 | 115 | 122 | 134 | 142 | 120 | 127 | 139 | 148 | 126 | 134 | **146** | 155 | 132 | 140 | 153 | 163 | 136 | 145 | 158 | 168 |
| | 919 | MBh | 25.9 | 26.4 | 28.3 | 30.2 | 25.3 | 25.8 | 27.6 | 29.5 | 24.7 | 25.2 | 26.9 | 28.8 | 24.1 | 24.6 | 26.3 | 28.1 | 22.9 | 23.4 | 25.0 | 26.7 | 21.2 | 21.7 | 23.1 | 24.7 |
| | | S/T | 0.84 | 0.79 | 0.64 | 0.48 | 0.87 | 0.81 | 0.66 | 0.50 | 0.89 | 0.83 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.52 | 0.95 | 0.89 | 0.73 | 0.54 | 0.96 | 0.90 | 0.73 | 0.55 |
| | | Delta T | 22 | 21 | 18 | 14 | 22 | 21 | 18 | 15 | 22 | 21 | 18 | 15 | 22 | 21 | 18 | 15 | 22 | 21 | 18 | 15 | 20 | 20 | 17 | 14 |
| | | KW | 1.68 | 1.73 | 1.80 | 1.87 | 1.85 | 1.90 | 1.97 | 2.05 | 1.99 | 2.04 | 2.12 | 2.21 | 2.12 | 2.17 | 2.26 | 2.35 | 2.23 | 2.29 | 2.38 | 2.47 | 2.32 | 2.38 | 2.47 | 2.57 |
| | | AMPS | 8.4 | 8.6 | 8.8 | 9.1 | 9.0 | 9.1 | 9.4 | 9.7 | 9.6 | 9.8 | 10.1 | 10.4 | 10.1 | 10.3 | 10.6 | 11.0 | 10.7 | 10.9 | 11.2 | 11.6 | 11.2 | 11.5 | 11.8 | 12.2 |
| | | HI PR | 227 | 244 | 258 | 269 | 255 | 274 | 290 | 302 | 290 | 312 | 329 | 344 | 330 | 355 | 375 | 391 | 371 | 400 | 422 | 440 | 410 | 442 | 466 | 486 |
| | | LO PR | 106 | 112 | 123 | 131 | 112 | 119 | 130 | 138 | 116 | 123 | 135 | 143 | 122 | 130 | 142 | 151 | 128 | 136 | 148 | 158 | 132 | 141 | 153 | 163 |

NOTE: Shaded area reflects AHRI rating conditions

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85 | 1181 | MBh | 29.4 | 30.0 | 31.4 | 33.5 | 28.7 | 29.3 | 30.6 | 32.7 | 28.0 | 28.6 | 29.9 | 31.9 | 27.3 | 27.9 | 29.2 | 31.1 | 26.0 | 26.5 | 27.7 | 29.6 | 24.1 | 24.5 | 25.7 | 27.4 |
| | | S/T | 0.96 | 0.92 | 0.83 | 0.67 | 0.99 | 0.96 | 0.86 | 0.70 | 1.00 | 0.98 | 0.88 | 0.72 | 1.00 | 1.00 | 0.91 | 0.74 | 1.00 | 1.00 | 0.95 | 0.77 | 1.00 | 1.00 | 0.95 | 0.77 |
| | | Delta T | 22 | 21 | 20 | 18 | 22 | 22 | 21 | 18 | 22 | 22 | 21 | 18 | 21 | 22 | 21 | 18 | 20 | 21 | 20 | 18 | 19 | 19 | 19 | 17 |
| | | KW | 1.77 | 1.82 | 1.89 | 1.97 | 1.94 | 1.99 | 2.07 | 2.16 | 2.09 | 2.15 | 2.23 | 2.32 | 2.23 | 2.29 | 2.38 | 2.47 | 2.34 | 2.40 | 2.50 | 2.60 | 2.44 | 2.50 | 2.60 | 2.71 |
| | | AMPS | 8.7 | 8.9 | 9.1 | 9.4 | 9.3 | 9.5 | 9.7 | 10.1 | 10.0 | 10.2 | 10.5 | 10.8 | 10.5 | 10.8 | 11.1 | 11.4 | 11.1 | 11.4 | 11.7 | 12.1 | 11.7 | 11.9 | 12.3 | 12.7 |
| | | HI PR | 239 | 257 | 271 | 283 | 268 | 288 | 305 | 318 | 305 | 328 | 346 | 361 | 347 | 374 | 395 | 412 | 391 | 420 | 444 | 463 | 432 | 464 | 490 | 512 |
| | | LO PR | 111 | 118 | 129 | 137 | 117 | 125 | 136 | 145 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 134 | 143 | 156 | 166 | 139 | 148 | 161 | 172 |
| | 1050 | MBh | 28.5 | 29.1 | 30.5 | 32.5 | 27.9 | 28.4 | 29.8 | 31.7 | 27.2 | 27.7 | 29.0 | 31.0 | 26.5 | 27.1 | 28.3 | 30.2 | 25.2 | 25.7 | 26.9 | 28.7 | 23.4 | 23.8 | 24.9 | 26.6 |
| | | S/T | 0.91 | 0.88 | 0.79 | 0.64 | 0.94 | 0.91 | 0.82 | 0.67 | 0.97 | 0.93 | 0.84 | 0.68 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.91 | 0.74 |
| | | Delta T | 23 | 22 | 21 | 18 | 23 | 23 | 21 | 19 | 23 | 23 | 21 | 19 | 23 | 23 | 22 | 19 | 22 | 23 | 21 | 18 | 20 | 21 | 20 | 17 |
| | | KW | 1.75 | 1.80 | 1.87 | 1.95 | 1.92 | 1.97 | 2.05 | 2.13 | 2.07 | 2.13 | 2.21 | 2.30 | 2.21 | 2.26 | 2.35 | 2.45 | 2.32 | 2.38 | 2.47 | 2.57 | 2.41 | 2.48 | 2.58 | 2.68 |
| | | AMPS | 8.7 | 8.8 | 9.1 | 9.3 | 9.2 | 9.4 | 9.7 | 10.0 | 9.9 | 10.1 | 10.4 | 10.7 | 10.5 | 10.7 | 11.0 | 11.3 | 11.0 | 11.3 | 11.6 | 12.0 | 11.6 | 11.8 | 12.2 | 12.6 |
| | | HI PR | 237 | 255 | 269 | 280 | 265 | 286 | 302 | 315 | 302 | 325 | 343 | 358 | 344 | 370 | 391 | 407 | 387 | 416 | 440 | 458 | 427 | 460 | 486 | 506 |
| | | LO PR | 110 | 117 | 128 | 136 | 116 | 124 | 135 | 144 | 121 | 129 | 140 | 149 | 127 | 135 | 147 | 157 | 133 | 141 | 154 | 164 | 138 | 146 | 160 | 170 |
| | 919 | MBh | 26.3 | 26.8 | 28.1 | 30.0 | 25.7 | 26.2 | 27.5 | 29.3 | 25.1 | 25.6 | 26.8 | 28.6 | 24.5 | 25.0 | 26.2 | 27.9 | 23.3 | 23.7 | 24.8 | 26.5 | 21.6 | 22.0 | 23.0 | 24.6 |
| | | S/T | 0.88 | 0.85 | 0.76 | 0.62 | 0.91 | 0.88 | 0.79 | 0.64 | 0.93 | 0.90 | 0.81 | 0.66 | 0.96 | 0.93 | 0.84 | 0.68 | 1.00 | 0.96 | 0.87 | 0.71 | 1.00 | 0.97 | 0.88 | 0.71 |
| | | Delta T | 23 | 23 | 22 | 19 | 23 | 23 | 22 | 19 | 23 | 23 | 22 | 19 | 24 | 23 | 22 | 19 | 23 | 23 | 22 | 19 | 22 | 21 | 20 | 18 |
| | | KW | 1.70 | 1.75 | 1.82 | 1.89 | 1.87 | 1.92 | 1.99 | 2.07 | 2.01 | 2.06 | 2.15 | 2.23 | 2.14 | 2.20 | 2.28 | 2.37 | 2.25 | 2.31 | 2.40 | 2.49 | 2.34 | 2.40 | 2.50 | 2.60 |
| | | AMPS | 8.5 | 8.6 | 8.9 | 9.1 | 9.0 | 9.2 | 9.5 | 9.7 | 9.7 | 9.9 | 10.1 | 10.5 | 10.2 | 10.4 | 10.7 | 11.1 | 10.8 | 11.0 | 11.3 | 11.7 | 11.3 | 11.6 | 11.9 | 12.3 |
| | | HI PR | 229 | 247 | 261 | 272 | 257 | 277 | 293 | 305 | 293 | 315 | 333 | 347 | 333 | 359 | 379 | 395 | 375 | 404 | 426 | 445 | 415 | 446 | 471 | 491 |
| | | LO PR | 107 | 114 | 124 | 132 | 113 | 120 | 131 | 139 | 117 | 125 | 136 | 145 | 123 | 131 | 143 | 152 | 129 | 137 | 150 | 160 | 133 | 142 | 155 | 165 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

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

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

**MODEL: GPC1536M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**



**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 70 | 1294 | MBh | 35.6 | 36.9 | 40.4 | - | 34.8 | 36.0 | 39.5 | - | 33.9 | 35.2 | 38.5 | - | 33.1 | 34.3 | 37.6 | - | 31.5 | 32.6 | 35.7 | - | 29.1 | 30.2 | 33.1 | - |
| | | 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 | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 2.20 | 2.26 | 2.35 | - | 2.41 | 2.48 | 2.57 | - | 2.60 | 2.67 | 2.77 | - | 2.76 | 2.83 | 2.95 | - | 2.90 | 2.98 | 3.09 | - | 3.02 | 3.10 | 3.22 | - |
| | | AMPS | 10.8 | 11.0 | 11.3 | - | 11.5 | 11.7 | 12.1 | - | 12.3 | 12.6 | 12.9 | - | 13.0 | 13.3 | 13.7 | - | 13.7 | 14.0 | 14.4 | - | 14.4 | 14.7 | 15.2 | - |
| | | HI PR | 237 | 255 | 269 | - | 266 | 286 | 302 | - | 302 | 325 | 344 | - | 344 | 371 | 391 | - | 387 | 417 | 440 | - | 428 | 461 | 486 | - |
| | | LO PR | 109 | 116 | 127 | - | 115 | 123 | 134 | - | 120 | 128 | 139 | - | 126 | 134 | 146 | - | 132 | 141 | 153 | - | 137 | 145 | 159 | - |
| | 1150 | MBh | 34.6 | 35.8 | 39.2 | - | 33.8 | 35.0 | 38.3 | - | 33.0 | 34.2 | 37.4 | - | 32.1 | 33.3 | 36.5 | - | 30.5 | 31.7 | 34.7 | - | 28.3 | 29.3 | 32.1 | - |
| | | S/T | 0.68 | 0.57 | 0.40 | - | 0.71 | 0.59 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.75 | 0.63 | 0.43 | - | 0.78 | 0.65 | 0.45 | - | 0.78 | 0.66 | 0.45 | - |
| | | Delta T | 19 | 16 | 12 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 16 | 12 | - | 18 | 15 | 12 | - |
| | | KW | 2.18 | 2.24 | 2.32 | - | 2.39 | 2.45 | 2.55 | - | 2.57 | 2.64 | 2.74 | - | 2.73 | 2.81 | 2.92 | - | 2.87 | 2.95 | 3.06 | - | 2.99 | 3.07 | 3.19 | - |
| | | AMPS | 10.7 | 10.9 | 11.2 | - | 11.4 | 11.6 | 12.0 | - | 12.2 | 12.5 | 12.8 | - | 12.9 | 13.2 | 13.6 | - | 13.6 | 13.9 | 14.3 | - | 14.3 | 14.6 | 15.1 | - |
| | | HI PR | 235 | 252 | 267 | - | 263 | 283 | 299 | - | 299 | 322 | 340 | - | 341 | 367 | 387 | - | 384 | 413 | 436 | - | 424 | 456 | 482 | - |
| | | LO PR | 108 | 115 | 126 | - | 114 | 122 | 133 | - | 119 | 126 | 138 | - | 125 | 133 | 145 | - | 131 | 139 | 152 | - | 135 | 144 | 157 | - |
| | 1006 | MBh | 31.9 | 33.1 | 36.2 | - | 31.2 | 32.3 | 35.4 | - | 30.4 | 31.5 | 34.5 | - | 29.7 | 30.8 | 33.7 | - | 28.2 | 29.2 | 32.0 | - | 26.1 | 27.1 | 29.7 | - |
| | | S/T | 0.66 | 0.55 | 0.38 | - | 0.68 | 0.57 | 0.40 | - | 0.70 | 0.58 | 0.41 | - | 0.72 | 0.60 | 0.42 | - | 0.75 | 0.63 | 0.43 | - | 0.76 | 0.63 | 0.44 | - |
| | | Delta T | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 20 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 16 | 12 | - |
| | | KW | 2.11 | 2.17 | 2.26 | - | 2.32 | 2.38 | 2.47 | - | 2.50 | 2.56 | 2.66 | - | 2.65 | 2.72 | 2.83 | - | 2.79 | 2.86 | 2.97 | - | 2.90 | 2.98 | 3.10 | - |
| | | AMPS | 10.5 | 10.7 | 11.0 | - | 11.2 | 11.4 | 11.7 | - | 12.0 | 12.2 | 12.5 | - | 12.6 | 12.9 | 13.3 | - | 13.3 | 13.6 | 14.0 | - | 14.0 | 14.3 | 14.7 | - |
| | | HI PR | 228 | 245 | 259 | - | 255 | 275 | 290 | - | 290 | 312 | 330 | - | 331 | 356 | 376 | - | 372 | 400 | 423 | - | 411 | 442 | 467 | - |
| | | LO PR | 105 | 112 | 122 | - | 111 | 118 | 129 | - | 115 | 123 | 134 | - | 121 | 129 | 141 | - | 127 | 135 | 147 | - | 131 | 140 | 152 | - |
| 75 | 1294 | MBh | 36.2 | 37.3 | 40.3 | 43.3 | 35.4 | 36.4 | 39.4 | 42.3 | 34.5 | 35.5 | 38.5 | 41.3 | 33.7 | **34.7** | 37.5 | 40.3 | 32.0 | 32.9 | 35.7 | 38.3 | 29.6 | 30.5 | 33.0 | 35.4 |
| | | S/T | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.76 | 0.57 | 0.37 | 0.87 | 0.77 | 0.59 | 0.38 | 0.89 | **0.80** | 0.60 | 0.39 | 0.93 | 0.83 | 0.63 | 0.40 | 0.94 | 0.84 | 0.63 | 0.41 |
| | | Delta T | 21 | 19 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | **20** | 16 | 11 | 21 | 19 | 16 | 11 | 20 | 18 | 15 | 10 |
| | | KW | 2.22 | 2.28 | 2.37 | 2.46 | 2.44 | 2.50 | 2.60 | 2.70 | 2.62 | 2.69 | 2.80 | 2.91 | 2.79 | **2.86** | 2.98 | 3.09 | 2.93 | 3.01 | 3.13 | 3.25 | 3.05 | 3.13 | 3.26 | 3.39 |
| | | 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 | 239 | 258 | 272 | 284 | 269 | 289 | 305 | 318 | 305 | 329 | 347 | 362 | 348 | **374** | 395 | 412 | 391 | 421 | 445 | 464 | 432 | 465 | 491 | 512 |
| | | LO PR | 110 | 117 | 128 | 137 | 117 | 124 | 136 | 144 | 121 | 129 | 141 | 150 | 127 | **136** | 148 | 158 | 133 | 142 | 155 | 165 | 138 | 147 | 160 | 171 |
| | 1150 | MBh | 35.1 | 36.2 | 39.2 | 42.0 | 34.3 | 35.3 | 38.3 | 41.1 | 33.5 | 34.5 | 37.3 | 40.1 | 32.7 | **33.7** | 36.4 | 39.1 | 31.1 | 32.0 | 34.6 | 37.1 | 28.8 | 29.6 | 32.1 | 34.4 |
| | | S/T | 0.78 | 0.69 | 0.53 | 0.34 | 0.81 | 0.72 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | **0.76** | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.39 | 0.89 | 0.80 | 0.60 | 0.39 |
| | | Delta T | 22 | 20 | 16 | 11 | 22 | 20 | 17 | 12 | 22 | 20 | 17 | 12 | 22 | **21** | 17 | 12 | 22 | 20 | 17 | 11 | 21 | 19 | 15 | 11 |
| | | KW | 2.20 | 2.26 | 2.35 | 2.44 | 2.41 | 2.48 | 2.57 | 2.67 | 2.60 | 2.67 | 2.77 | 2.88 | 2.76 | **2.84** | 2.95 | 3.06 | 2.90 | 2.98 | 3.10 | 3.22 | 3.02 | 3.10 | 3.22 | 3.35 |
| | | AMPS | 10.8 | 11.0 | 11.3 | 11.6 | 11.5 | 11.7 | 12.1 | 12.4 | 12.3 | 12.6 | 12.9 | 13.3 | 13.0 | **13.3** | 13.7 | 14.1 | 13.7 | 14.0 | 14.4 | 14.9 | 14.4 | 14.7 | 15.2 | 15.7 |
| | | HI PR | 237 | 255 | 269 | 281 | 266 | 286 | 302 | 315 | 302 | 325 | 344 | 358 | 344 | **371** | 391 | 408 | 387 | 417 | 440 | 459 | 428 | 461 | 486 | 507 |
| | | LO PR | 109 | 116 | 127 | 135 | 116 | 123 | 134 | 143 | 120 | 128 | 139 | 149 | 126 | **134** | 146 | 156 | 132 | 141 | 154 | 163 | 137 | 145 | 159 | 169 |
| | 1006 | MBh | 32.4 | 33.4 | 36.2 | 38.8 | 31.7 | 32.6 | 35.3 | 37.9 | 30.9 | 31.8 | 34.5 | 37.0 | 30.2 | **31.1** | 33.6 | 36.1 | 28.7 | 29.5 | 31.9 | 34.3 | 26.6 | 27.3 | 29.6 | 31.8 |
| | | S/T | 0.75 | 0.67 | 0.51 | 0.33 | 0.78 | 0.69 | 0.53 | 0.34 | 0.80 | 0.71 | 0.54 | 0.35 | 0.82 | **0.73** | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.86 | 0.77 | 0.58 | 0.37 |
| | | Delta T | 22 | 20 | 17 | 12 | 22 | 21 | 17 | 12 | 22 | 21 | 17 | 12 | 23 | **21** | 17 | 12 | 22 | 21 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 2.14 | 2.19 | 2.28 | 2.37 | 2.34 | 2.40 | 2.50 | 2.60 | 2.52 | 2.59 | 2.69 | 2.80 | 2.68 | **2.75** | 2.86 | 2.97 | 2.82 | 2.89 | 3.00 | 3.12 | 2.93 | 3.01 | 3.13 | 3.25 |
| | | AMPS | 10.6 | 10.8 | 11.1 | 11.4 | 11.2 | 11.5 | 11.8 | 12.1 | 12.0 | 12.3 | 12.6 | 13.0 | 12.7 | **13.0** | 13.4 | 13.8 | 13.4 | 13.7 | 14.1 | 14.5 | 14.1 | 14.4 | 14.8 | 15.3 |
| | | HI PR | 230 | 247 | 261 | 272 | 258 | 278 | 293 | 306 | 293 | 316 | 333 | 348 | 334 | **359** | 380 | 396 | 376 | 404 | 427 | 445 | 415 | 447 | 472 | 492 |
| | | 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 |

* 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: GPC1536M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 80 | 1294 | MBh | 36.8 | 37.6 | 40.2 | 43.0 | 36.0 | 36.8 | 39.3 | 42.0 | 35.1 | 35.9 | 38.4 | 41.0 | 34.3 | 35.0 | 37.4 | 40.0 | 32.6 | 33.3 | 35.5 | 38.0 | 30.2 | 30.8 | 32.9 | 35.2 |
| | | S/T | 0.89 | 0.84 | 0.68 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89 | 0.72 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95 | 0.78 | 0.58 | 1.00 | 0.96 | 0.78 | 0.59 |
| | | Delta T | 23 | 22 | 19 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 23 | 23 | 20 | 16 | 21 | 21 | 18 | 15 |
| | | KW | 2.25 | 2.30 | 2.39 | 2.49 | 2.46 | 2.53 | 2.62 | 2.73 | 2.65 | 2.72 | 2.83 | 2.94 | 2.82 | 2.89 | 3.01 | 3.12 | 2.96 | 3.04 | 3.16 | 3.28 | 3.08 | 3.16 | 3.29 | 3.42 |
| | | AMPS | 11.0 | 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 | 14.3 | 14.0 | 14.3 | 14.7 | 15.1 | 14.7 | 15.0 | 15.4 | 15.9 |
| | | HI PR | 242 | 260 | 275 | 286 | 271 | 292 | 308 | 321 | 308 | 332 | 351 | 366 | 351 | 378 | 399 | 416 | 395 | 425 | 449 | 468 | 437 | 470 | 496 | 518 |
| | | LO PR | 112 | 119 | 130 | 138 | 118 | 125 | 137 | 146 | 122 | 130 | 142 | 152 | 129 | 137 | 149 | 159 | 135 | 143 | 157 | 167 | 139 | 148 | 162 | 173 |
| | 1150 | MBh | 35.8 | 36.6 | 39.0 | 41.7 | 34.9 | 35.7 | 38.1 | 40.8 | 34.1 | 34.9 | 37.2 | 39.8 | 33.3 | 34.0 | **36.3** | 38.8 | 31.6 | 32.3 | 34.5 | 36.9 | 29.3 | 29.9 | 32.0 | 34.2 |
| | | S/T | 0.85 | 0.80 | 0.65 | 0.49 | 0.88 | 0.83 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.88 | **0.71** | 0.53 | 0.97 | 0.91 | 0.74 | 0.55 | 0.98 | 0.92 | 0.75 | 0.56 |
| | | Delta T | 24 | 23 | 20 | 16 | 25 | 24 | 21 | 16 | 25 | 24 | 21 | 16 | 25 | 24 | **21** | 17 | 25 | 23 | 20 | 16 | 23 | 22 | 19 | 15 |
| | | KW | 2.22 | 2.28 | 2.37 | 2.46 | 2.44 | 2.50 | 2.60 | 2.70 | 2.62 | 2.69 | 2.80 | 2.91 | 2.79 | 2.86 | **2.98** | 3.09 | 2.93 | 3.01 | 3.13 | 3.25 | 3.05 | 3.13 | 3.26 | 3.39 |
| | | 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 | 239 | 258 | 272 | 284 | 269 | 289 | 305 | 318 | 305 | 329 | 347 | 362 | 348 | 374 | **395** | 412 | 391 | 421 | 445 | 464 | 432 | 465 | 491 | 512 |
| | | LO PR | 110 | 117 | 128 | 137 | 117 | 124 | 136 | 144 | 121 | 129 | 141 | 150 | 127 | 136 | **148** | 158 | 133 | 142 | 155 | 165 | 138 | 147 | 160 | 171 |
| | 1006 | MBh | 33.0 | 33.7 | 36.0 | 38.5 | 32.2 | 33.0 | 35.2 | 37.6 | 31.5 | 32.2 | 34.4 | 36.7 | 30.7 | 31.4 | 33.5 | 35.8 | 29.2 | 29.8 | 31.9 | 34.0 | 27.0 | 27.6 | 29.5 | 31.5 |
| | | S/T | 0.82 | 0.77 | 0.63 | 0.47 | 0.85 | 0.80 | 0.65 | 0.49 | 0.87 | 0.82 | 0.67 | 0.50 | 0.90 | 0.85 | 0.69 | 0.51 | 0.94 | 0.88 | 0.71 | 0.53 | 0.94 | 0.88 | 0.72 | 0.54 |
| | | Delta T | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 23 | 22 | 19 | 16 |
| | | KW | 2.16 | 2.21 | 2.30 | 2.39 | 2.36 | 2.43 | 2.52 | 2.62 | 2.55 | 2.61 | 2.72 | 2.82 | 2.71 | 2.78 | 2.89 | 3.00 | 2.84 | 2.92 | 3.03 | 3.15 | 2.96 | 3.04 | 3.16 | 3.28 |
| | | AMPS | 10.6 | 10.8 | 11.1 | 11.5 | 11.3 | 11.6 | 11.9 | 12.2 | 12.1 | 12.4 | 12.7 | 13.1 | 12.8 | 13.1 | 13.5 | 13.9 | 13.5 | 13.8 | 14.2 | 14.7 | 14.2 | 14.5 | 14.9 | 15.4 |
| | | HI PR | 232 | 250 | 264 | 275 | 260 | 280 | 296 | 309 | 296 | 319 | 337 | 351 | 337 | 363 | 383 | 400 | 380 | 409 | 431 | 450 | 419 | 451 | 477 | 497 |
| | | LO PR | 107 | 114 | 124 | 133 | 113 | 120 | 131 | 140 | 118 | 125 | 137 | 146 | 124 | 131 | 144 | 153 | 129 | 138 | 150 | 160 | 134 | 142 | 156 | 166 |
| | | | NOTE: Shaded area reflects AHRI rating conditions | | | | | | | | | | | | | | | | | | | | | | | |
| 85 | 1294 | MBh | 37.5 | 38.2 | 40.0 | 42.7 | 36.6 | 37.3 | 39.1 | 41.7 | 35.7 | 36.4 | 38.2 | 40.7 | 34.9 | 35.5 | 37.2 | 39.7 | 33.1 | 33.8 | 35.4 | 37.7 | 30.7 | 31.3 | 32.8 | 35.0 |
| | | S/T | 0.94 | 0.90 | 0.82 | 0.66 | 0.97 | 0.94 | 0.85 | 0.69 | 1.00 | 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 | 25 | 25 | 23 | 20 | 25 | 25 | 23 | 20 | 25 | 25 | 24 | 20 | 25 | 25 | 24 | 20 | 24 | 24 | 23 | 20 | 22 | 22 | 22 | 19 |
| | | KW | 2.27 | 2.33 | 2.42 | 2.51 | 2.48 | 2.55 | 2.65 | 2.76 | 2.68 | 2.75 | 2.85 | 2.97 | 2.85 | 2.92 | 3.04 | 3.16 | 2.99 | 3.07 | 3.19 | 3.32 | 3.11 | 3.20 | 3.32 | 3.45 |
| | | AMPS | 11.0 | 11.3 | 11.6 | 11.9 | 11.8 | 12.0 | 12.3 | 12.7 | 12.6 | 12.9 | 13.2 | 13.7 | 13.3 | 13.6 | 14.0 | 14.5 | 14.1 | 14.4 | 14.8 | 15.3 | 14.8 | 15.1 | 15.6 | 16.1 |
| | | HI PR | 244 | 263 | 277 | 289 | 274 | 295 | 311 | 325 | 312 | 335 | 354 | 369 | 355 | 382 | 403 | 421 | 399 | 430 | 454 | 473 | 441 | 475 | 501 | 523 |
| | | LO PR | 113 | 120 | 131 | 139 | 119 | 127 | 138 | 147 | 124 | 132 | 144 | 153 | 130 | 138 | 151 | 161 | 136 | 145 | 158 | 168 | 141 | 150 | 164 | 174 |
| | 1150 | MBh | 36.4 | 37.1 | 38.9 | 41.5 | 35.5 | 36.2 | 38.0 | 40.5 | 34.7 | 35.4 | 37.0 | 39.5 | 33.9 | 34.5 | 36.1 | 38.6 | 32.2 | 32.8 | 34.3 | 36.6 | 29.8 | 30.4 | 31.8 | 33.9 |
| | | S/T | 0.89 | 0.86 | 0.78 | 0.63 | 0.93 | 0.89 | 0.81 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 0.99 | 0.89 | 0.72 |
| | | Delta T | 26 | 26 | 24 | 21 | 26 | 26 | 24 | 21 | 26 | 26 | 24 | 21 | 27 | 26 | 25 | 21 | 26 | 26 | 24 | 21 | 24 | 24 | 23 | 20 |
| | | KW | 2.25 | 2.30 | 2.39 | 2.49 | 2.46 | 2.53 | 2.62 | 2.73 | 2.65 | 2.72 | 2.83 | 2.94 | 2.82 | 2.89 | 3.01 | 3.12 | 2.96 | 3.04 | 3.16 | 3.28 | 3.08 | 3.16 | 3.29 | 3.42 |
| | | AMPS | 11.0 | 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 | 14.3 | 14.0 | 14.3 | 14.7 | 15.1 | 14.7 | 15.0 | 15.4 | 15.9 |
| | | HI PR | 242 | 260 | 275 | 286 | 271 | 292 | 308 | 321 | 308 | 332 | 351 | 366 | 351 | 378 | 399 | 416 | 395 | 425 | 449 | 468 | 437 | 470 | 496 | 518 |
| | | LO PR | 112 | 119 | 130 | 138 | 118 | 125 | 137 | 146 | 122 | 130 | 142 | 152 | 129 | 137 | 149 | 159 | 135 | 143 | 157 | 167 | 139 | 148 | 162 | 173 |
| | 1006 | MBh | 33.6 | 34.2 | 35.9 | 38.3 | 32.8 | 33.4 | 35.0 | 37.4 | 32.0 | 32.6 | 34.2 | 36.5 | 31.2 | 31.9 | 33.4 | 35.6 | 29.7 | 30.3 | 31.7 | 33.8 | 27.5 | 28.0 | 29.4 | 31.3 |
| | | S/T | 0.86 | 0.83 | 0.75 | 0.61 | 0.89 | 0.86 | 0.78 | 0.63 | 0.92 | 0.88 | 0.80 | 0.65 | 0.94 | 0.91 | 0.82 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 0.99 | 0.95 | 0.86 | 0.70 |
| | | Delta T | 26 | 26 | 25 | 21 | 27 | 26 | 25 | 22 | 27 | 26 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 26 | 25 | 21 | 25 | 24 | 23 | 20 |
| | | KW | 2.18 | 2.24 | 2.32 | 2.42 | 2.39 | 2.45 | 2.55 | 2.65 | 2.57 | 2.64 | 2.74 | 2.85 | 2.73 | 2.81 | 2.92 | 3.03 | 2.87 | 2.95 | 3.06 | 3.19 | 2.99 | 3.07 | 3.19 | 3.32 |
| | | AMPS | 10.7 | 10.9 | 11.2 | 11.6 | 11.4 | 11.6 | 12.0 | 12.3 | 12.2 | 12.5 | 12.8 | 13.2 | 12.9 | 13.2 | 13.6 | 14.0 | 13.6 | 13.9 | 14.3 | 14.8 | 14.3 | 14.6 | 15.1 | 15.5 |
| | | HI PR | 234 | 252 | 266 | 278 | 263 | 283 | 299 | 312 | 299 | 322 | 340 | 355 | 341 | 367 | 387 | 404 | 383 | 413 | 436 | 454 | 424 | 456 | 481 | 502 |
| | | 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 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

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

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

**MODEL: GPC1542M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 70 | 1519 | MBh | 41.2 | 42.7 | 46.8 | - | 40.2 | 41.7 | 45.7 | - | 39.3 | 40.7 | 44.6 | - | 38.3 | 39.7 | 43.5 | - | 36.4 | 37.7 | 41.3 | - | 33.7 | 35.0 | 38.3 | - |
| | | 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 | 18 | 16 | 12 | - | 18 | 16 | 12 | - | 19 | 16 | 12 | - | 19 | 16 | 12 | - | 18 | 16 | 12 | - | 17 | 15 | 11 | - |
| | | KW | 2.49 | 2.56 | 2.66 | - | 2.73 | 2.80 | 2.91 | - | 2.94 | 3.02 | 3.13 | - | 3.12 | 3.21 | 3.33 | - | 3.28 | 3.37 | 3.50 | - | 3.42 | 3.51 | 3.65 | - |
| | | AMPS | 12.1 | 12.4 | 12.7 | - | 12.9 | 13.2 | 13.6 | - | 13.9 | 14.2 | 14.6 | - | 14.7 | 15.0 | 15.4 | - | 15.5 | 15.8 | 16.3 | - | 16.3 | 16.7 | 17.1 | - |
| | | HI PR | 239 | 257 | 271 | - | 268 | 288 | 305 | - | 305 | 328 | 346 | - | 347 | 374 | 394 | - | 390 | 420 | 444 | - | 431 | 464 | 490 | - |
| | | LO PR | 112 | 119 | 130 | - | 118 | 126 | 137 | - | 123 | 131 | 143 | - | 129 | 137 | 150 | - | 135 | 144 | 157 | - | 140 | 149 | 163 | - |
| | 1350 | MBh | 40.0 | 41.5 | 45.4 | - | 39.1 | 40.5 | 44.4 | - | 38.1 | 39.5 | 43.3 | - | 37.2 | 38.6 | 42.3 | - | 35.3 | 36.6 | 40.1 | - | 32.7 | 33.9 | 37.2 | - |
| | | 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 | - |
| | | Delta T | 19 | 16 | 12 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 15 | 12 | - |
| | | KW | 2.47 | 2.53 | 2.63 | - | 2.70 | 2.77 | 2.88 | - | 2.91 | 2.99 | 3.10 | - | 3.09 | 3.18 | 3.30 | - | 3.25 | 3.34 | 3.47 | - | 3.39 | 3.47 | 3.61 | - |
| | | AMPS | 12.0 | 12.3 | 12.6 | - | 12.8 | 13.1 | 13.5 | - | 13.8 | 14.1 | 14.5 | - | 14.6 | 14.9 | 15.3 | - | 15.4 | 15.7 | 16.2 | - | 16.2 | 16.5 | 17.0 | - |
| | | HI PR | 236 | 254 | 269 | - | 265 | 286 | 301 | - | 302 | 325 | 343 | - | 344 | 370 | 391 | - | 387 | 416 | 439 | - | 427 | 460 | 485 | - |
| | | LO PR | 111 | 118 | 129 | - | 117 | 125 | 136 | - | 122 | 129 | 141 | - | 128 | 136 | 148 | - | 134 | 143 | 156 | - | 139 | 147 | 161 | - |
| | 1181 | MBh | 36.9 | 38.3 | 41.9 | - | 36.1 | 37.4 | 41.0 | - | 35.2 | 36.5 | 40.0 | - | 34.3 | 35.6 | 39.0 | - | 32.6 | 33.8 | 37.1 | - | 30.2 | 31.3 | 34.3 | - |
| | | S/T | 0.67 | 0.56 | 0.39 | - | 0.70 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.41 | - | 0.74 | 0.62 | 0.43 | - | 0.77 | 0.64 | 0.44 | - | 0.77 | 0.65 | 0.45 | - |
| | | Delta T | 19 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 16 | 12 | - |
| | | KW | 2.39 | 2.46 | 2.55 | - | 2.62 | 2.69 | 2.80 | - | 2.82 | 2.90 | 3.01 | - | 3.00 | 3.08 | 3.20 | - | 3.15 | 3.24 | 3.36 | - | 3.28 | 3.37 | 3.50 | - |
| | | AMPS | 11.8 | 12.0 | 12.3 | - | 12.5 | 12.8 | 13.2 | - | 13.4 | 13.7 | 14.1 | - | 14.2 | 14.5 | 14.9 | - | 15.0 | 15.3 | 15.8 | - | 15.8 | 16.1 | 16.6 | - |
| | | HI PR | 229 | 247 | 261 | - | 257 | 277 | 292 | - | 293 | 315 | 333 | - | 333 | 359 | 379 | - | 375 | 404 | 426 | - | 414 | 446 | 471 | - |
| | | LO PR | 108 | 114 | 125 | - | 114 | 121 | 132 | - | 118 | 126 | 137 | - | 124 | 132 | 144 | - | 130 | 138 | 151 | - | 134 | 143 | 156 | - |
| 75 | 1519 | MBh | 41.9 | 43.1 | 46.7 | 50.1 | 40.9 | 42.1 | 45.6 | 48.9 | 39.9 | 41.1 | 44.5 | 47.8 | 39.0 | **40.1** | 43.4 | 46.6 | 37.0 | 38.1 | 41.3 | 44.3 | 34.3 | 35.3 | 38.2 | 41.0 |
| | | 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 |
| | | Delta T | 21 | 19 | 16 | 11 | 21 | 20 | 16 | 11 | 21 | 20 | 16 | 11 | 22 | **20** | 16 | 11 | 21 | 20 | 16 | 11 | 20 | 18 | 15 | 10 |
| | | KW | 2.51 | 2.58 | 2.68 | 2.79 | 2.76 | 2.83 | 2.94 | 3.06 | 2.97 | 3.05 | 3.17 | 3.29 | 3.16 | **3.24** | 3.37 | 3.50 | 3.32 | 3.40 | 3.54 | 3.68 | 3.45 | 3.54 | 3.68 | 3.83 |
| | | AMPS | 12.2 | 12.5 | 12.8 | 13.2 | 13.0 | 13.3 | 13.7 | 14.1 | 14.0 | 14.3 | 14.7 | 15.2 | 14.8 | **15.1** | 15.6 | 16.1 | 15.6 | 16.0 | 16.4 | 17.0 | 16.4 | 16.8 | 17.3 | 17.9 |
| | | HI PR | 241 | 260 | 274 | 286 | 271 | 291 | 308 | 321 | 308 | 331 | 350 | 365 | 351 | **377** | 398 | 416 | 394 | 425 | 448 | 468 | 436 | 469 | 495 | 517 |
| | | LO PR | 113 | 120 | 131 | 140 | 119 | 127 | 139 | 148 | 124 | 132 | 144 | 154 | 130 | **139** | 151 | 161 | 137 | 145 | 159 | 169 | 141 | 150 | 164 | 175 |
| | 1350 | MBh | 40.7 | 41.9 | 45.3 | 48.7 | 39.7 | 40.9 | 44.3 | 47.5 | 38.8 | 39.9 | 43.2 | 46.4 | 37.8 | **39.0** | 42.2 | 45.3 | 35.9 | 37.0 | 40.1 | 43.0 | 33.3 | 34.3 | 37.1 | 39.8 |
| | | S/T | 0.79 | 0.71 | 0.54 | 0.35 | 0.82 | 0.74 | 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 | 0.82 | 0.62 | 0.40 |
| | | Delta T | 22 | 20 | 17 | 11 | 22 | 21 | 17 | 12 | 22 | 21 | 17 | 12 | 22 | **21** | 17 | 12 | 22 | 20 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 2.49 | 2.56 | 2.66 | 2.76 | 2.73 | 2.80 | 2.91 | 3.03 | 2.94 | 3.02 | 3.14 | 3.26 | 3.13 | **3.21** | 3.33 | 3.47 | 3.28 | 3.37 | 3.50 | 3.64 | 3.42 | 3.51 | 3.65 | 3.79 |
| | | AMPS | 12.1 | 12.4 | 12.7 | 13.1 | 12.9 | 13.2 | 13.6 | 14.0 | 13.9 | 14.2 | 14.6 | 15.0 | 14.7 | **15.0** | 15.4 | 15.9 | 15.5 | 15.8 | 16.3 | 16.8 | 16.3 | 16.7 | 17.1 | 17.7 |
| | | HI PR | 239 | 257 | 271 | 283 | 268 | 288 | 305 | 318 | 305 | 328 | 346 | 361 | 347 | **374** | 395 | 411 | 391 | 420 | 444 | 463 | 432 | 464 | 490 | 511 |
| | | LO PR | 112 | 119 | 130 | 138 | 118 | 126 | 137 | 146 | 123 | 131 | 143 | 152 | 129 | **137** | 150 | 160 | 135 | 144 | 157 | 167 | 140 | 149 | 163 | 173 |
| | 1181 | MBh | 37.5 | 38.7 | 41.8 | 44.9 | 36.7 | 37.8 | 40.9 | 43.9 | 35.8 | 36.9 | 39.9 | 42.8 | 34.9 | **36.0** | 38.9 | 41.8 | 33.2 | 34.2 | 37.0 | 39.7 | 30.7 | 31.6 | 34.3 | 36.8 |
| | | S/T | 0.77 | 0.68 | 0.52 | 0.33 | 0.79 | 0.71 | 0.54 | 0.35 | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | **0.75** | 0.57 | 0.37 | 0.87 | 0.78 | 0.59 | 0.38 | 0.88 | 0.79 | 0.59 | 0.38 |
| | | Delta T | 22 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | 21 | 17 | 12 | 23 | **21** | 17 | 12 | 23 | 21 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 2.42 | 2.48 | 2.58 | 2.68 | 2.65 | 2.72 | 2.82 | 2.94 | 2.85 | 2.93 | 3.04 | 3.16 | 3.03 | **3.11** | 3.23 | 3.36 | 3.19 | 3.27 | 3.40 | 3.53 | 3.32 | 3.41 | 3.54 | 3.68 |
| | | AMPS | 11.9 | 12.1 | 12.4 | 12.8 | 12.6 | 12.9 | 13.3 | 13.7 | 13.6 | 13.8 | 14.2 | 14.7 | 14.3 | **14.6** | 15.1 | 15.6 | 15.1 | 15.4 | 15.9 | 16.4 | 15.9 | 16.2 | 16.7 | 17.3 |
| | | HI PR | 232 | 249 | 263 | 275 | 260 | 280 | 295 | 308 | 296 | 318 | 336 | 350 | 337 | **362** | 383 | 399 | 379 | 408 | 431 | 449 | 419 | 450 | 476 | 496 |
| | | LO PR | 109 | 116 | 126 | 134 | 115 | 122 | 133 | 142 | 119 | 127 | 139 | 148 | 125 | **133** | 145 | 155 | 131 | 140 | 152 | 162 | 136 | 144 | 158 | 168 |

* 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: GPC1542M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 80 | 1519 | MBh | 42.6 | 43.6 | 46.6 | 49.8 | 41.7 | 42.6 | 45.5 | 48.6 | 40.7 | 41.5 | 44.4 | 47.5 | 39.7 | 40.5 | 43.3 | 46.3 | 37.7 | 38.5 | 41.1 | 44.0 | 34.9 | 35.7 | 38.1 | 40.7 |
| | | 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 | 1.00 | 1.00 | 0.79 | 0.59 | 1.00 | 1.00 | 0.80 | 0.60 |
| | | Delta T | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 24 | 23 | 20 | 16 | 23 | 23 | 20 | 16 | 21 | 22 | 18 | 15 |
| | | KW | 2.54 | 2.61 | 2.71 | 2.82 | 2.78 | 2.86 | 2.97 | 3.09 | 3.00 | 3.08 | 3.20 | 3.32 | 3.19 | 3.27 | 3.40 | 3.54 | 3.35 | 3.44 | 3.57 | 3.71 | 3.49 | 3.58 | 3.72 | 3.87 |
| | | AMPS | 12.3 | 12.6 | 12.9 | 13.3 | 13.1 | 13.4 | 13.8 | 14.2 | 14.1 | 14.4 | 14.8 | 15.3 | 14.9 | 15.2 | 15.7 | 16.2 | 15.8 | 16.1 | 16.6 | 17.1 | 16.6 | 16.9 | 17.4 | 18.0 |
| | | HI PR | 244 | 262 | 277 | 289 | 273 | 294 | 311 | 324 | 311 | 335 | 353 | 369 | 354 | 381 | 402 | 420 | 398 | 429 | 453 | 472 | 440 | 474 | 500 | 522 |
| | | LO PR | 114 | 122 | 133 | 141 | 121 | 128 | 140 | 149 | 125 | 133 | 146 | 155 | 132 | 140 | 153 | 163 | 138 | 147 | 160 | 171 | 143 | 152 | 166 | 177 |
| | 1350 | MBh | 41.4 | 42.3 | 45.2 | 48.3 | 40.4 | 41.3 | 44.1 | 47.2 | 39.5 | 40.3 | 43.1 | 46.1 | 38.5 | 39.4 | **42.0** | 44.9 | 36.6 | 37.4 | 39.9 | 42.7 | 33.9 | 34.6 | 37.0 | 39.6 |
| | | S/T | 0.87 | 0.82 | 0.66 | 0.50 | 0.90 | 0.85 | 0.69 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.96 | 0.90 | **0.73** | 0.54 | 0.99 | 0.93 | 0.76 | 0.57 | 1.00 | 0.94 | 0.76 | 0.57 |
| | | Delta T | 25 | 24 | 20 | 16 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | **21** | 17 | 25 | 24 | 21 | 16 | 23 | 22 | 19 | 15 |
| | | KW | 2.51 | 2.58 | 2.68 | 2.79 | 2.76 | 2.83 | 2.94 | 3.06 | 2.97 | 3.05 | 3.17 | 3.29 | 3.16 | 3.24 | **3.37** | 3.50 | 3.32 | 3.40 | 3.54 | 3.68 | 3.45 | 3.55 | 3.68 | 3.83 |
| | | AMPS | 12.2 | 12.5 | 12.8 | 13.2 | 13.0 | 13.3 | 13.7 | 14.1 | 14.0 | 14.3 | 14.7 | 15.2 | 14.8 | 15.1 | **15.6** | 16.1 | 15.6 | 16.0 | 16.4 | 17.0 | 16.4 | 16.8 | 17.3 | 17.9 |
| | | HI PR | 241 | 260 | 274 | 286 | 271 | 291 | 308 | 321 | 308 | 331 | 350 | 365 | 351 | 377 | **399** | 416 | 395 | 425 | 448 | 468 | 436 | 469 | 495 | 517 |
| | | LO PR | 113 | 120 | 131 | 140 | 119 | 127 | 139 | 148 | 124 | 132 | 144 | 154 | 130 | 139 | **152** | 161 | 137 | 145 | 159 | 169 | 141 | 150 | 164 | 175 |
| | 1181 | MBh | 38.2 | 39.0 | 41.7 | 44.6 | 37.3 | 38.1 | 40.7 | 43.6 | 36.4 | 37.2 | 39.8 | 42.5 | 35.5 | 36.3 | 38.8 | 41.5 | 33.8 | 34.5 | 36.9 | 39.4 | 31.3 | 32.0 | 34.1 | 36.5 |
| | | S/T | 0.84 | 0.79 | 0.64 | 0.48 | 0.87 | 0.82 | 0.66 | 0.50 | 0.89 | 0.84 | 0.68 | 0.51 | 0.92 | 0.86 | 0.70 | 0.53 | 0.96 | 0.90 | 0.73 | 0.55 | 0.96 | 0.90 | 0.74 | 0.55 |
| | | Delta T | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 23 | 22 | 20 | 16 |
| | | KW | 2.44 | 2.50 | 2.60 | 2.71 | 2.67 | 2.74 | 2.85 | 2.97 | 2.88 | 2.96 | 3.07 | 3.19 | 3.06 | 3.14 | 3.27 | 3.40 | 3.22 | 3.30 | 3.43 | 3.57 | 3.35 | 3.44 | 3.57 | 3.72 |
| | | AMPS | 11.9 | 12.2 | 12.5 | 12.9 | 12.7 | 13.0 | 13.4 | 13.8 | 13.7 | 13.9 | 14.3 | 14.8 | 14.5 | 14.8 | 15.2 | 15.7 | 15.3 | 15.6 | 16.0 | 16.6 | 16.0 | 16.4 | 16.9 | 17.4 |
| | | HI PR | 234 | 252 | 266 | 277 | 263 | 283 | 298 | 311 | 299 | 321 | 339 | 354 | 340 | 366 | 387 | 403 | 383 | 412 | 435 | 454 | 423 | 455 | 480 | 501 |
| | | LO PR | 110 | 117 | 127 | 136 | 116 | 123 | 135 | 143 | 120 | 128 | 140 | 149 | 127 | 135 | 147 | 157 | 133 | 141 | 154 | 164 | 137 | 146 | 159 | 170 |

NOTE: Shaded area reflects AHRI rating conditions

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85 | 1519 | MBh | 43.4 | 44.2 | 46.3 | 49.4 | 42.4 | 43.2 | 45.2 | 48.3 | 41.4 | 42.2 | 44.2 | 47.1 | 40.4 | 41.1 | 43.1 | 46.0 | 38.3 | 39.1 | 40.9 | 43.7 | 35.5 | 36.2 | 37.9 | 40.5 |
| | | 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 |
| | | Delta T | 25 | 25 | 23 | 20 | 25 | 25 | 24 | 20 | 25 | 25 | 24 | 20 | 24 | 25 | 24 | 21 | 23 | 24 | 24 | 20 | 21 | 22 | 22 | 19 |
| | | KW | 2.56 | 2.63 | 2.74 | 2.84 | 2.81 | 2.89 | 3.00 | 3.12 | 3.03 | 3.11 | 3.23 | 3.36 | 3.22 | 3.30 | 3.43 | 3.57 | 3.38 | 3.47 | 3.61 | 3.75 | 3.52 | 3.62 | 3.76 | 3.91 |
| | | AMPS | 12.4 | 12.6 | 13.0 | 13.4 | 13.2 | 13.5 | 13.9 | 14.3 | 14.2 | 14.5 | 14.9 | 15.4 | 15.0 | 15.4 | 15.8 | 16.3 | 15.9 | 16.2 | 16.7 | 17.3 | 16.7 | 17.1 | 17.6 | 18.2 |
| | | HI PR | 246 | 265 | 280 | 292 | 276 | 297 | 314 | 327 | 314 | 338 | 357 | 372 | 358 | 385 | 407 | 424 | 402 | 433 | 457 | 477 | 445 | 479 | 505 | 527 |
| | | LO PR | 115 | 123 | 134 | 143 | 122 | 130 | 142 | 151 | 127 | 135 | 147 | 157 | 133 | 142 | 155 | 165 | 139 | 148 | 162 | 172 | 144 | 153 | 168 | 178 |
| | 1350 | MBh | 42.1 | 42.9 | 45.0 | 48.0 | 41.1 | 41.9 | 43.9 | 46.9 | 40.2 | 40.9 | 42.9 | 45.7 | 39.2 | 39.9 | 41.8 | 44.6 | 37.2 | 37.9 | 39.7 | 42.4 | 34.5 | 35.1 | 36.8 | 39.3 |
| | | S/T | 0.91 | 0.88 | 0.79 | 0.64 | 0.95 | 0.91 | 0.82 | 0.67 | 0.97 | 0.94 | 0.84 | 0.69 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 1.00 | 0.90 | 0.73 | 1.00 | 1.00 | 0.91 | 0.74 |
| | | Delta T | 26 | 26 | 24 | 21 | 27 | 26 | 25 | 21 | 27 | 26 | 25 | 21 | 27 | 26 | 25 | 22 | 25 | 26 | 24 | 21 | 23 | 24 | 23 | 20 |
| | | KW | 2.54 | 2.61 | 2.71 | 2.82 | 2.78 | 2.86 | 2.97 | 3.09 | 3.00 | 3.08 | 3.20 | 3.32 | 3.19 | 3.27 | 3.40 | 3.54 | 3.35 | 3.44 | 3.57 | 3.71 | 3.49 | 3.58 | 3.72 | 3.87 |
| | | AMPS | 12.3 | 12.6 | 12.9 | 13.3 | 13.1 | 13.4 | 13.8 | 14.2 | 14.1 | 14.4 | 14.8 | 15.3 | 14.9 | 15.2 | 15.7 | 16.2 | 15.8 | 16.1 | 16.6 | 17.1 | 16.6 | 16.9 | 17.4 | 18.0 |
| | | HI PR | 244 | 262 | 277 | 289 | 273 | 294 | 311 | 324 | 311 | 335 | 353 | 369 | 354 | 381 | 402 | 420 | 398 | 429 | 453 | 472 | 440 | 474 | 500 | 522 |
| | | LO PR | 114 | 122 | 133 | 141 | 121 | 128 | 140 | 149 | 125 | 133 | 146 | 155 | 132 | 140 | 153 | 163 | 138 | 147 | 160 | 171 | 143 | 152 | 166 | 177 |
| | 1181 | MBh | 38.9 | 39.6 | 41.5 | 44.3 | 38.0 | 38.7 | 40.5 | 43.3 | 37.1 | 37.8 | 39.6 | 42.2 | 36.2 | 36.9 | 38.6 | 41.2 | 34.4 | 35.0 | 36.7 | 39.1 | 31.8 | 32.4 | 34.0 | 36.3 |
| | | S/T | 0.88 | 0.85 | 0.77 | 0.62 | 0.91 | 0.88 | 0.79 | 0.64 | 0.94 | 0.90 | 0.81 | 0.66 | 0.97 | 0.93 | 0.84 | 0.68 | 1.00 | 0.97 | 0.87 | 0.71 | 1.00 | 0.98 | 0.88 | 0.71 |
| | | Delta T | 27 | 26 | 25 | 21 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 27 | 25 | 22 | 27 | 26 | 25 | 22 | 25 | 25 | 23 | 20 |
| | | KW | 2.46 | 2.53 | 2.63 | 2.73 | 2.70 | 2.77 | 2.88 | 2.99 | 2.91 | 2.99 | 3.10 | 3.23 | 3.09 | 3.17 | 3.30 | 3.43 | 3.25 | 3.34 | 3.47 | 3.60 | 3.38 | 3.47 | 3.61 | 3.75 |
| | | AMPS | 12.0 | 12.3 | 12.6 | 13.0 | 12.8 | 13.1 | 13.5 | 13.9 | 13.8 | 14.1 | 14.4 | 14.9 | 14.6 | 14.9 | 15.3 | 15.8 | 15.4 | 15.7 | 16.2 | 16.7 | 16.2 | 16.5 | 17.0 | 17.6 |
| | | HI PR | 236 | 254 | 269 | 280 | 265 | 285 | 301 | 314 | 302 | 325 | 343 | 358 | 344 | 370 | 390 | 407 | 387 | 416 | 439 | 458 | 427 | 460 | 485 | 506 |
| | | LO PR | 111 | 118 | 129 | 137 | 117 | 125 | 136 | 145 | 122 | 129 | 141 | 150 | 128 | 136 | 148 | 158 | 134 | 142 | 156 | 166 | 139 | 147 | 161 | 171 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

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

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

**MODEL: GPC1548M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**



**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 70 | 1519 | MBh | 43.9 | 45.5 | 49.9 | - | 42.9 | 44.5 | 48.7 | - | 41.9 | 43.4 | 47.6 | - | 40.9 | 42.3 | 46.4 | - | 38.8 | 40.2 | 44.1 | - | 36.0 | 37.3 | 40.8 | - |
| | | 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 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 19 | 17 | 13 | - | 18 | 15 | 12 | - |
| | | KW | 2.76 | 2.83 | 2.94 | - | 3.02 | 3.10 | 3.22 | - | 3.26 | 3.34 | 3.48 | - | 3.46 | 3.56 | 3.70 | - | 3.64 | 3.74 | 3.89 | - | 3.79 | 3.89 | 4.05 | - |
| | | AMPS | 12.6 | 12.9 | 13.2 | - | 13.5 | 13.8 | 14.2 | - | 14.5 | 14.9 | 15.3 | - | 15.4 | 15.8 | 16.3 | - | 16.3 | 16.7 | 17.2 | - | 17.2 | 17.6 | 18.2 | - |
| | | HI PR | 237 | 255 | 269 | - | 266 | 286 | 302 | - | 302 | 325 | 344 | - | 344 | 371 | 391 | - | 388 | 417 | 440 | - | 428 | 461 | 487 | - |
| | | LO PR | 109 | 116 | 127 | - | 115 | 122 | 134 | - | 120 | 127 | 139 | - | 126 | 134 | 146 | - | 132 | 140 | 153 | - | 136 | 145 | 158 | - |
| | 1350 | MBh | 42.6 | 44.2 | 48.4 | - | 41.6 | 43.2 | 47.3 | - | 40.7 | 42.1 | 46.2 | - | 39.7 | 41.1 | 45.0 | - | 37.7 | 39.1 | 42.8 | - | 34.9 | 36.2 | 39.6 | - |
| | | S/T | 0.68 | 0.57 | 0.40 | - | 0.71 | 0.59 | 0.41 | - | 0.73 | 0.61 | 0.42 | - | 0.75 | 0.63 | 0.43 | - | 0.78 | 0.65 | 0.45 | - | 0.78 | 0.65 | 0.45 | - |
| | | Delta T | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 17 | 13 | - | 20 | 18 | 13 | - | 20 | 17 | 13 | - | 19 | 16 | 12 | - |
| | | KW | 2.73 | 2.80 | 2.91 | - | 2.99 | 3.07 | 3.19 | - | 3.22 | 3.31 | 3.44 | - | 3.43 | 3.52 | 3.66 | - | 3.60 | 3.70 | 3.85 | - | 3.76 | 3.86 | 4.01 | - |
| | | AMPS | 12.5 | 12.8 | 13.1 | - | 13.4 | 13.7 | 14.1 | - | 14.4 | 14.7 | 15.2 | - | 15.3 | 15.7 | 16.1 | - | 16.2 | 16.6 | 17.1 | - | 17.1 | 17.5 | 18.0 | - |
| | | HI PR | 235 | 252 | 267 | - | 263 | 283 | 299 | - | 299 | 322 | 340 | - | 341 | 367 | 388 | - | 384 | 413 | 436 | - | 424 | 456 | 482 | - |
| | | LO PR | 108 | 115 | 125 | - | 114 | 121 | 132 | - | 118 | 126 | 138 | - | 124 | 132 | 145 | - | 130 | 139 | 151 | - | 135 | 143 | 157 | - |
| | 1181 | MBh | 39.4 | 40.8 | 44.7 | - | 38.4 | 39.8 | 43.7 | - | 37.5 | 38.9 | 42.6 | - | 36.6 | 37.9 | 41.6 | - | 34.8 | 36.1 | 39.5 | - | 32.2 | 33.4 | 36.6 | - |
| | | S/T | 0.66 | 0.55 | 0.38 | - | 0.68 | 0.57 | 0.39 | - | 0.70 | 0.58 | 0.40 | - | 0.72 | 0.60 | 0.42 | - | 0.75 | 0.63 | 0.43 | - | 0.76 | 0.63 | 0.44 | - |
| | | Delta T | 20 | 17 | 13 | - | 20 | 18 | 13 | - | 20 | 18 | 13 | - | 21 | 18 | 14 | - | 20 | 18 | 13 | - | 19 | 16 | 12 | - |
| | | KW | 2.65 | 2.72 | 2.82 | - | 2.90 | 2.98 | 3.10 | - | 3.13 | 3.21 | 3.34 | - | 3.33 | 3.42 | 3.55 | - | 3.50 | 3.59 | 3.73 | - | 3.64 | 3.74 | 3.89 | - |
| | | AMPS | 12.2 | 12.4 | 12.8 | - | 13.1 | 13.3 | 13.7 | - | 14.1 | 14.4 | 14.8 | - | 14.9 | 15.3 | 15.7 | - | 15.8 | 16.2 | 16.6 | - | 16.7 | 17.0 | 17.6 | - |
| | | HI PR | 228 | 245 | 259 | - | 255 | 275 | 290 | - | 290 | 313 | 330 | - | 331 | 356 | 376 | - | 372 | 400 | 423 | - | 411 | 442 | 467 | - |
| | | LO PR | 105 | 111 | 122 | - | 111 | 118 | 128 | - | 115 | 122 | 133 | - | 121 | 128 | 140 | - | 126 | 135 | 147 | - | 131 | 139 | 152 | - |
| 75 | 1519 | MBh | 44.7 | 46.0 | 49.8 | 53.4 | 43.6 | 44.9 | 48.6 | 52.2 | 42.6 | 43.8 | 47.5 | 50.9 | 41.5 | **42.8** | 46.3 | 49.7 | 39.5 | 40.6 | 44.0 | 47.2 | 36.6 | 37.6 | 40.7 | 43.7 |
| | | S/T | 0.81 | 0.73 | 0.55 | 0.35 | 0.84 | 0.75 | 0.57 | 0.37 | 0.87 | 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 | 21 | 17 | 12 | 22 | 21 | 17 | 12 | 22 | **21** | 17 | 12 | 22 | 20 | 17 | 12 | 21 | 19 | 16 | 11 |
| | | KW | 2.78 | 2.86 | 2.97 | 3.09 | 3.05 | 3.13 | 3.26 | 3.39 | 3.29 | 3.38 | 3.51 | 3.65 | 3.50 | **3.59** | 3.73 | 3.88 | 3.68 | 3.78 | 3.92 | 4.08 | 3.83 | 3.93 | 4.09 | 4.25 |
| | | AMPS | 12.7 | 13.0 | 13.3 | 13.8 | 13.6 | 13.9 | 14.3 | 14.8 | 14.7 | 15.0 | 15.4 | 16.0 | 15.6 | **15.9** | 16.4 | 17.0 | 16.5 | 16.9 | 17.4 | 18.0 | 17.4 | 17.8 | 18.3 | 19.0 |
| | | HI PR | 239 | 258 | 272 | 284 | 269 | 289 | 305 | 318 | 306 | 329 | 347 | 362 | 348 | **374** | 395 | 412 | 391 | 421 | 445 | 464 | 433 | 465 | 491 | 513 |
| | | LO PR | 110 | 117 | 128 | 136 | 116 | 124 | 135 | 144 | 121 | 129 | 140 | 149 | 127 | **135** | 147 | 157 | 133 | 142 | 155 | 165 | 138 | 146 | 160 | 170 |
| | 1350 | MBh | 43.4 | 44.6 | 48.3 | 51.9 | 42.4 | 43.6 | 47.2 | 50.7 | 41.3 | 42.6 | 46.1 | 49.5 | 40.3 | **41.5** | 45.0 | 48.2 | 38.3 | 39.5 | 42.7 | 45.8 | 35.5 | 36.5 | 39.6 | 42.5 |
| | | S/T | 0.78 | 0.69 | 0.53 | 0.34 | 0.80 | 0.72 | 0.54 | 0.35 | 0.83 | 0.74 | 0.56 | 0.36 | 0.85 | **0.76** | 0.58 | 0.37 | 0.88 | 0.79 | 0.60 | 0.39 | 0.89 | 0.80 | 0.60 | 0.39 |
| | | Delta T | 23 | 21 | 17 | 12 | 23 | 21 | 18 | 12 | 23 | 21 | 18 | 12 | 23 | **22** | 18 | 12 | 23 | 21 | 17 | 12 | 22 | 20 | 16 | 11 |
| | | KW | 2.76 | 2.83 | 2.94 | 3.06 | 3.02 | 3.10 | 3.23 | 3.35 | 3.26 | 3.34 | 3.48 | 3.62 | 3.47 | **3.56** | 3.70 | 3.85 | 3.64 | 3.74 | 3.89 | 4.04 | 3.79 | 3.89 | 4.05 | 4.21 |
| | | AMPS | 12.6 | 12.9 | 13.2 | 13.7 | 13.5 | 13.8 | 14.2 | 14.7 | 14.5 | 14.9 | 15.3 | 15.8 | 15.4 | **15.8** | 16.3 | 16.8 | 16.4 | 16.7 | 17.2 | 17.8 | 17.2 | 17.6 | 18.2 | 18.8 |
| | | HI PR | 237 | 255 | 269 | 281 | 266 | 286 | 302 | 315 | 302 | 326 | 344 | 359 | 345 | **371** | 391 | 408 | 388 | 417 | 440 | 459 | 428 | 461 | 487 | 508 |
| | | LO PR | 109 | 116 | 127 | 135 | 115 | 122 | 134 | 142 | 120 | 127 | 139 | 148 | 126 | **134** | 146 | 155 | 132 | 140 | 153 | 163 | 136 | 145 | 158 | 169 |
| | 1181 | MBh | 40.0 | 41.2 | 44.6 | 47.9 | 39.1 | 40.3 | 43.6 | 46.8 | 38.2 | 39.3 | 42.5 | 45.6 | 37.2 | **38.3** | 41.5 | 44.5 | 35.4 | 36.4 | 39.4 | 42.3 | 32.8 | 33.7 | 36.5 | 39.2 |
| | | S/T | 0.75 | 0.67 | 0.51 | 0.33 | 0.78 | 0.69 | 0.53 | 0.34 | 0.80 | 0.71 | 0.54 | 0.35 | 0.82 | **0.73** | 0.56 | 0.36 | 0.85 | 0.76 | 0.58 | 0.37 | 0.86 | 0.77 | 0.58 | 0.37 |
| | | Delta T | 23 | 21 | 18 | 12 | 24 | 22 | 18 | 12 | 24 | 22 | 18 | 12 | 24 | **22** | 18 | 12 | 23 | 22 | 18 | 12 | 22 | 20 | 17 | 11 |
| | | KW | 2.67 | 2.75 | 2.85 | 2.97 | 2.93 | 3.01 | 3.13 | 3.25 | 3.16 | 3.24 | 3.37 | 3.51 | 3.36 | **3.45** | 3.59 | 3.73 | 3.53 | 3.63 | 3.77 | 3.92 | 3.68 | 3.78 | 3.93 | 4.08 |
| | | AMPS | 12.3 | 12.5 | 12.9 | 13.3 | 13.2 | 13.5 | 13.8 | 14.3 | 14.2 | 14.5 | 14.9 | 15.4 | 15.1 | **15.4** | 15.9 | 16.4 | 15.9 | 16.3 | 16.8 | 17.4 | 16.8 | 17.2 | 17.7 | 18.3 |
| | | HI PR | 230 | 247 | 261 | 273 | 258 | 278 | 293 | 306 | 293 | 316 | 333 | 348 | 334 | **360** | 380 | 396 | 376 | 405 | 427 | 446 | 415 | 447 | 472 | 492 |
| | | LO PR | 106 | 112 | 123 | 131 | 112 | 119 | 130 | 138 | 116 | 123 | 135 | 144 | 122 | **130** | 142 | 151 | 128 | 136 | 148 | 158 | 132 | 141 | 153 | 163 |

* 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: GPC1548M41**

# EXPANDED PERFORMANCE DATA

**COOLING OPERATION**

**Design Subcooling, 7 °F @ the liquid access fitting connection AHRI 95 test conditions. Design Superheat 5°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 |
| 80 | 1519 | MBh | 45.5 | 46.5 | 49.6 | 53.1 | 44.4 | 45.4 | 48.5 | 51.8 | 43.3 | 44.3 | 47.3 | 50.6 | 42.3 | 43.2 | 46.2 | 49.4 | 40.2 | 41.1 | 43.9 | 46.9 | 37.2 | 38.0 | 40.6 | 43.4 |
| | | S/T | 0.89 | 0.84 | 0.68 | 0.51 | 0.93 | 0.87 | 0.71 | 0.53 | 0.95 | 0.89 | 0.72 | 0.54 | 1.00 | 0.92 | 0.75 | 0.56 | 1.00 | 0.95 | 0.78 | 0.58 | 1.00 | 0.96 | 0.78 | 0.58 |
| | | Delta T | 25 | 24 | 20 | 16 | 25 | 24 | 21 | 17 | 25 | 24 | 21 | 17 | 26 | 24 | 21 | 17 | 24 | 24 | 21 | 16 | 23 | 22 | 19 | 15 |
| | | KW | 2.81 | 2.89 | 3.00 | 3.12 | 3.08 | 3.17 | 3.29 | 3.42 | 3.32 | 3.41 | 3.55 | 3.69 | 3.54 | 3.63 | 3.77 | 3.92 | 3.72 | 3.81 | 3.96 | 4.12 | 3.87 | 3.97 | 4.13 | 4.29 |
| | | AMPS | 12.8 | 13.1 | 13.5 | 13.9 | 13.7 | 14.0 | 14.4 | 14.9 | 14.8 | 15.1 | 15.6 | 16.1 | 15.7 | 16.1 | 16.5 | 17.1 | 16.6 | 17.0 | 17.5 | 18.1 | 17.5 | 17.9 | 18.5 | 19.2 |
| | | HI PR | 242 | 260 | 275 | 287 | 271 | 292 | 308 | 322 | 309 | 332 | 351 | 366 | 351 | 378 | 399 | 417 | 395 | 426 | 449 | 469 | 437 | 470 | 496 | 518 |
| | | LO PR | 111 | 118 | 129 | 138 | 117 | 125 | 136 | 145 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 134 | 143 | 156 | 166 | 139 | 148 | 161 | 172 |
| | 1350 | MBh | 44.1 | 45.1 | 48.2 | 51.5 | 43.1 | 44.1 | 47.1 | 50.3 | 42.1 | 43.0 | 45.9 | 49.1 | 41.1 | 42.0 | **44.8** | 47.9 | 39.0 | 39.9 | 42.6 | 45.5 | 36.1 | 36.9 | 39.4 | 42.2 |
| | | S/T | 0.85 | 0.80 | 0.65 | 0.49 | 0.88 | 0.83 | 0.67 | 0.50 | 0.91 | 0.85 | 0.69 | 0.52 | 0.93 | 0.88 | **0.71** | 0.53 | 0.97 | 0.91 | 0.74 | 0.55 | 0.98 | 0.92 | 0.75 | 0.56 |
| | | Delta T | 26 | 25 | 21 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 17 | 26 | 25 | **22** | 17 | 26 | 25 | 21 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 2.78 | 2.86 | 2.97 | 3.09 | 3.05 | 3.13 | 3.26 | 3.39 | 3.29 | 3.38 | 3.51 | 3.65 | 3.50 | 3.59 | **3.74** | 3.88 | 3.68 | 3.78 | 3.93 | 4.08 | 3.83 | 3.93 | 4.09 | 4.25 |
| | | AMPS | 12.7 | 13.0 | 13.3 | 13.8 | 13.6 | 13.9 | 14.3 | 14.8 | 14.7 | 15.0 | 15.4 | 16.0 | 15.6 | 15.9 | **16.4** | 17.0 | 16.5 | 16.9 | 17.4 | 18.0 | 17.4 | 17.8 | 18.3 | 19.0 |
| | | HI PR | 239 | 258 | 272 | 284 | 269 | 289 | 305 | 318 | 306 | 329 | 347 | 362 | 348 | 374 | **395** | 412 | 391 | 421 | 445 | 464 | 433 | 465 | 492 | 513 |
| | | LO PR | 110 | 117 | 128 | 136 | 116 | 124 | 135 | 144 | 121 | 129 | 140 | 149 | 127 | 135 | **147** | 157 | 133 | 142 | 155 | 165 | 138 | 146 | 160 | 170 |
| | 1181 | MBh | 40.7 | 41.6 | 44.5 | 47.5 | 39.8 | 40.7 | 43.4 | 46.4 | 38.8 | 39.7 | 42.4 | 45.3 | 37.9 | 38.7 | 41.4 | 44.2 | 36.0 | 36.8 | 39.3 | 42.0 | 33.3 | 34.1 | 36.4 | 38.9 |
| | | S/T | 0.82 | 0.77 | 0.63 | 0.47 | 0.85 | 0.80 | 0.65 | 0.49 | 0.87 | 0.82 | 0.67 | 0.50 | 0.90 | 0.84 | 0.69 | 0.51 | 0.93 | 0.88 | 0.71 | 0.53 | 0.94 | 0.88 | 0.72 | 0.54 |
| | | Delta T | 26 | 25 | 22 | 17 | 26 | 25 | 22 | 18 | 26 | 25 | 22 | 18 | 27 | 25 | 22 | 18 | 26 | 25 | 22 | 17 | 24 | 23 | 20 | 16 |
| | | KW | 2.70 | 2.77 | 2.88 | 3.00 | 2.96 | 3.04 | 3.16 | 3.29 | 3.19 | 3.28 | 3.41 | 3.54 | 3.40 | 3.49 | 3.62 | 3.77 | 3.57 | 3.66 | 3.81 | 3.96 | 3.72 | 3.82 | 3.97 | 4.13 |
| | | AMPS | 12.4 | 12.7 | 13.0 | 13.4 | 13.3 | 13.6 | 14.0 | 14.4 | 14.3 | 14.6 | 15.1 | 15.6 | 15.2 | 15.5 | 16.0 | 16.5 | 16.1 | 16.4 | 16.9 | 17.5 | 16.9 | 17.3 | 17.9 | 18.5 |
| | | HI PR | 232 | 250 | 264 | 275 | 261 | 280 | 296 | 309 | 296 | 319 | 337 | 351 | 338 | 363 | 384 | 400 | 380 | 409 | 432 | 450 | 420 | 452 | 477 | 497 |
| | | LO PR | 107 | 114 | 124 | 132 | 113 | 120 | 131 | 140 | 117 | 125 | 136 | 145 | 123 | 131 | 143 | 152 | 129 | 137 | 150 | 160 | 133 | 142 | 155 | 165 |

NOTE: Shaded area reflects AHRI rating conditions

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 85 | 1519 | MBh | 46.3 | 47.1 | 49.4 | 52.7 | 45.2 | 46.1 | 48.2 | 51.5 | 44.1 | 45.0 | 47.1 | 50.2 | 43.0 | 43.9 | 45.9 | 49.0 | 40.9 | 41.7 | 43.6 | 46.6 | 37.9 | 38.6 | 40.4 | 43.1 |
| | | S/T | 0.94 | 0.90 | 0.82 | 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 | 27 | 26 | 25 | 21 | 27 | 26 | 25 | 21 | 26 | 26 | 25 | 22 | 25 | 25 | 25 | 21 | 23 | 23 | 23 | 20 |
| | | KW | 2.84 | 2.92 | 3.03 | 3.15 | 3.11 | 3.20 | 3.32 | 3.46 | 3.36 | 3.45 | 3.58 | 3.72 | 3.57 | 3.67 | 3.81 | 3.96 | 3.75 | 3.85 | 4.00 | 4.16 | 3.91 | 4.01 | 4.17 | 4.34 |
| | | AMPS | 12.9 | 13.2 | 13.6 | 14.0 | 13.8 | 14.1 | 14.6 | 15.0 | 14.9 | 15.2 | 15.7 | 16.2 | 15.8 | 16.2 | 16.7 | 17.3 | 16.8 | 17.1 | 17.7 | 18.3 | 17.7 | 18.1 | 18.7 | 19.3 |
| | | HI PR | 244 | 263 | 278 | 289 | 274 | 295 | 311 | 325 | 312 | 335 | 354 | 369 | 355 | 382 | 403 | 421 | 399 | 430 | 454 | 473 | 441 | 475 | 501 | 523 |
| | | LO PR | 112 | 119 | 130 | 139 | 119 | 126 | 138 | 147 | 123 | 131 | 143 | 153 | 130 | 138 | 150 | 160 | 136 | 144 | 158 | 168 | 140 | 149 | 163 | 174 |
| | 1350 | MBh | 44.9 | 45.8 | 47.9 | 51.1 | 43.9 | 44.7 | 46.8 | 50.0 | 42.8 | 43.6 | 45.7 | 48.8 | 41.8 | 42.6 | 44.6 | 47.6 | 39.7 | 40.5 | 42.4 | 45.2 | 36.8 | 37.5 | 39.2 | 41.9 |
| | | S/T | 0.89 | 0.86 | 0.78 | 0.63 | 0.93 | 0.89 | 0.81 | 0.65 | 0.95 | 0.92 | 0.83 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 1.00 | 0.98 | 0.89 | 0.72 | 1.00 | 0.99 | 0.89 | 0.72 |
| | | Delta T | 27 | 27 | 25 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 28 | 27 | 26 | 22 | 27 | 27 | 26 | 22 | 25 | 25 | 24 | 21 |
| | | KW | 2.81 | 2.89 | 3.00 | 3.12 | 3.08 | 3.17 | 3.29 | 3.42 | 3.32 | 3.41 | 3.55 | 3.69 | 3.54 | 3.63 | 3.77 | 3.92 | 3.72 | 3.81 | 3.96 | 4.12 | 3.87 | 3.97 | 4.13 | 4.29 |
| | | AMPS | 12.8 | 13.1 | 13.5 | 13.9 | 13.7 | 14.0 | 14.4 | 14.9 | 14.8 | 15.1 | 15.6 | 16.1 | 15.7 | 16.1 | 16.5 | 17.1 | 16.6 | 17.0 | 17.5 | 18.1 | 17.5 | 17.9 | 18.5 | 19.2 |
| | | HI PR | 242 | 260 | 275 | 287 | 271 | 292 | 308 | 322 | 309 | 332 | 351 | 366 | 351 | 378 | 399 | 417 | 395 | 426 | 449 | 469 | 437 | 470 | 496 | 518 |
| | | LO PR | 111 | 118 | 129 | 138 | 117 | 125 | 136 | 145 | 122 | 130 | 142 | 151 | 128 | 136 | 149 | 159 | 134 | 143 | 156 | 166 | 139 | 148 | 161 | 172 |
| | 1181 | MBh | 41.4 | 42.3 | 44.3 | 47.2 | 40.5 | 41.3 | 43.2 | 46.1 | 39.5 | 40.3 | 42.2 | 45.0 | 38.6 | 39.3 | 41.2 | 43.9 | 36.6 | 37.3 | 39.1 | 41.7 | 33.9 | 34.6 | 36.2 | 38.6 |
| | | S/T | 0.86 | 0.83 | 0.75 | 0.61 | 0.89 | 0.86 | 0.78 | 0.63 | 0.91 | 0.88 | 0.80 | 0.65 | 0.94 | 0.91 | 0.82 | 0.67 | 0.98 | 0.95 | 0.85 | 0.69 | 0.99 | 0.95 | 0.86 | 0.70 |
| | | Delta T | 28 | 27 | 26 | 22 | 28 | 28 | 26 | 23 | 28 | 28 | 26 | 23 | 28 | 28 | 26 | 23 | 28 | 27 | 26 | 22 | 26 | 26 | 24 | 21 |
| | | KW | 2.73 | 2.80 | 2.91 | 3.03 | 2.99 | 3.07 | 3.19 | 3.32 | 3.22 | 3.31 | 3.44 | 3.58 | 3.43 | 3.52 | 3.66 | 3.81 | 3.60 | 3.70 | 3.85 | 4.00 | 3.75 | 3.85 | 4.01 | 4.17 |
| | | AMPS | 12.5 | 12.8 | 13.1 | 13.6 | 13.4 | 13.7 | 14.1 | 14.5 | 14.4 | 14.7 | 15.2 | 15.7 | 15.3 | 15.7 | 16.1 | 16.7 | 16.2 | 16.6 | 17.1 | 17.7 | 17.1 | 17.5 | 18.0 | 18.7 |
| | | HI PR | 235 | 252 | 267 | 278 | 263 | 283 | 299 | 312 | 299 | 322 | 340 | 355 | 341 | 367 | 387 | 404 | 384 | 413 | 436 | 455 | 424 | 456 | 482 | 502 |
| | | LO PR | 108 | 115 | 125 | 133 | 114 | 121 | 132 | 141 | 118 | 126 | 138 | 146 | 124 | 132 | 144 | 154 | 130 | 139 | 151 | 161 | 135 | 143 | 157 | 167 |

* Entering Indoor Dry Bulb Temperature

NOTE: Shaded area is AHRI Rating Conditions

KW = Total system power

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

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

# COOLING PERFORMANCE DATA

**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.

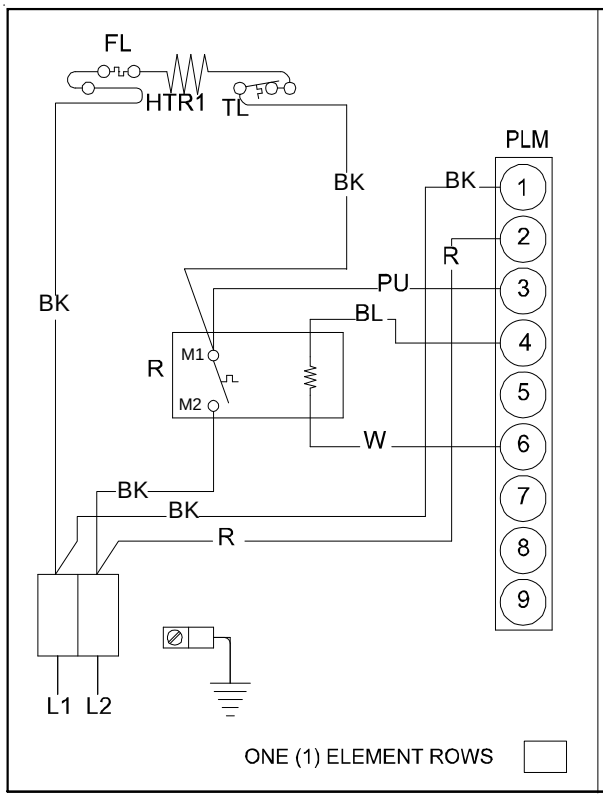
A properly operating unit should be within plus or minus **3 Amps** of the typical value shown.

# WIRING DIAGRAMS

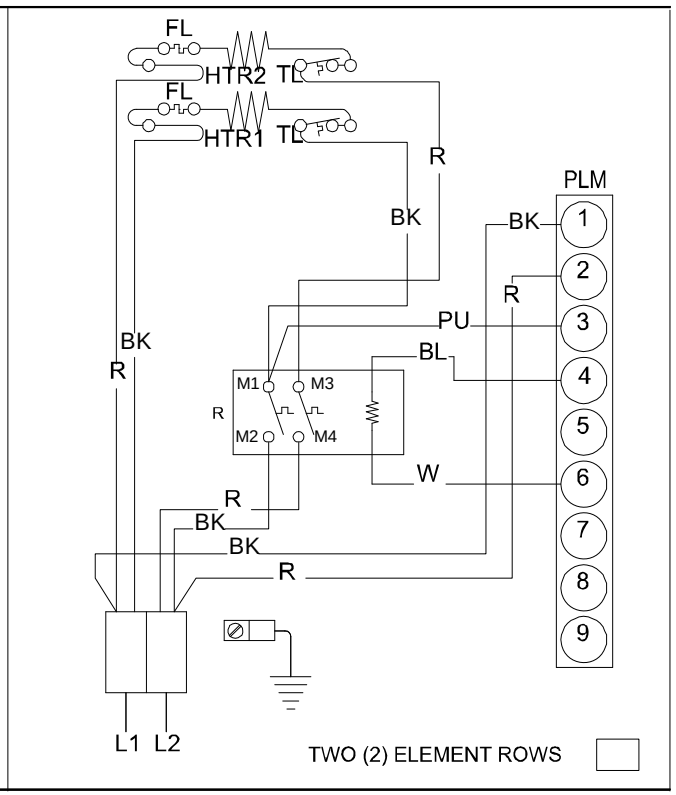
**HKR***

**WARNING**

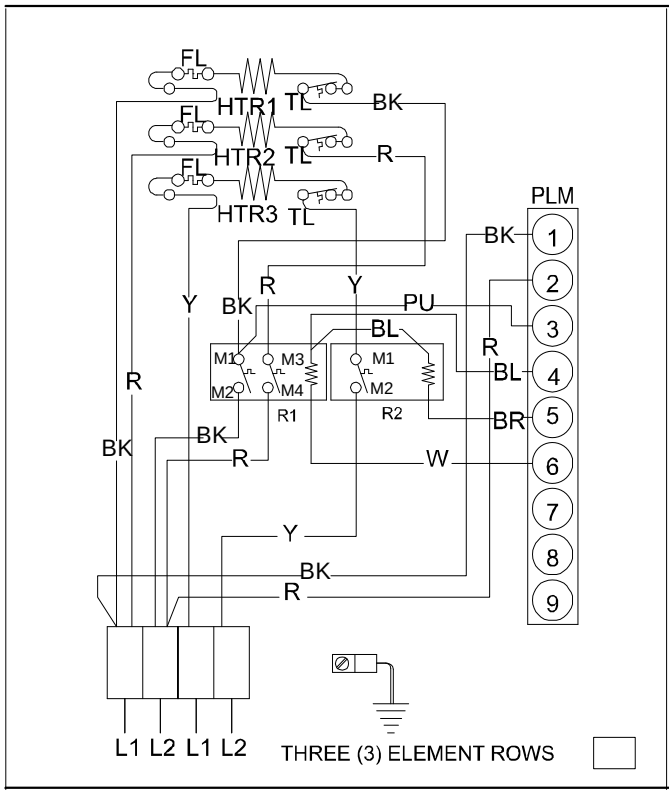
HIGH VOLTAGE!
DISCONNECT ALL POWER BEFORE SERVICING OR INSTALLING THIS UNIT. MULTIPLE POWER SOURCES MAY BE PRESENT. FAILURE TO DO SO MAY CAUSE PROPERTY DAMAGE, PERSONAL INJURY OR DEATH.



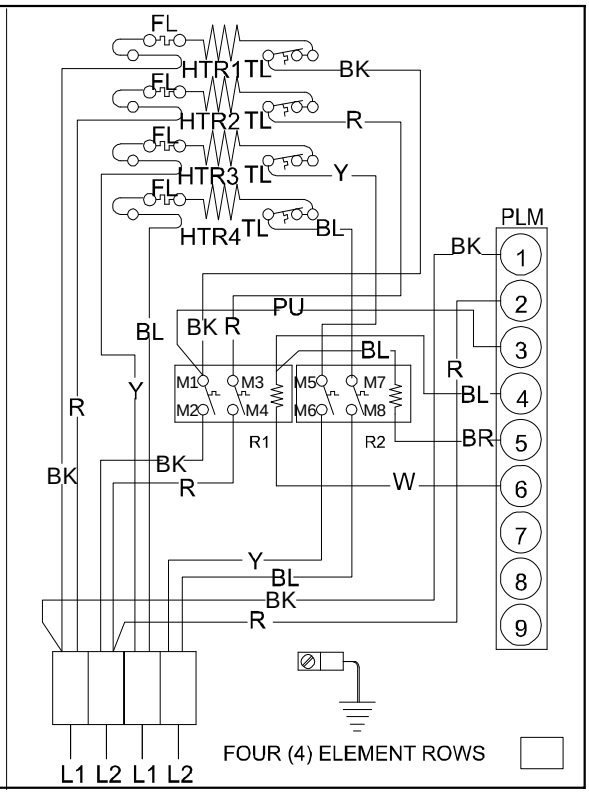

**5 KW**




**10 KW**




**15 KW**

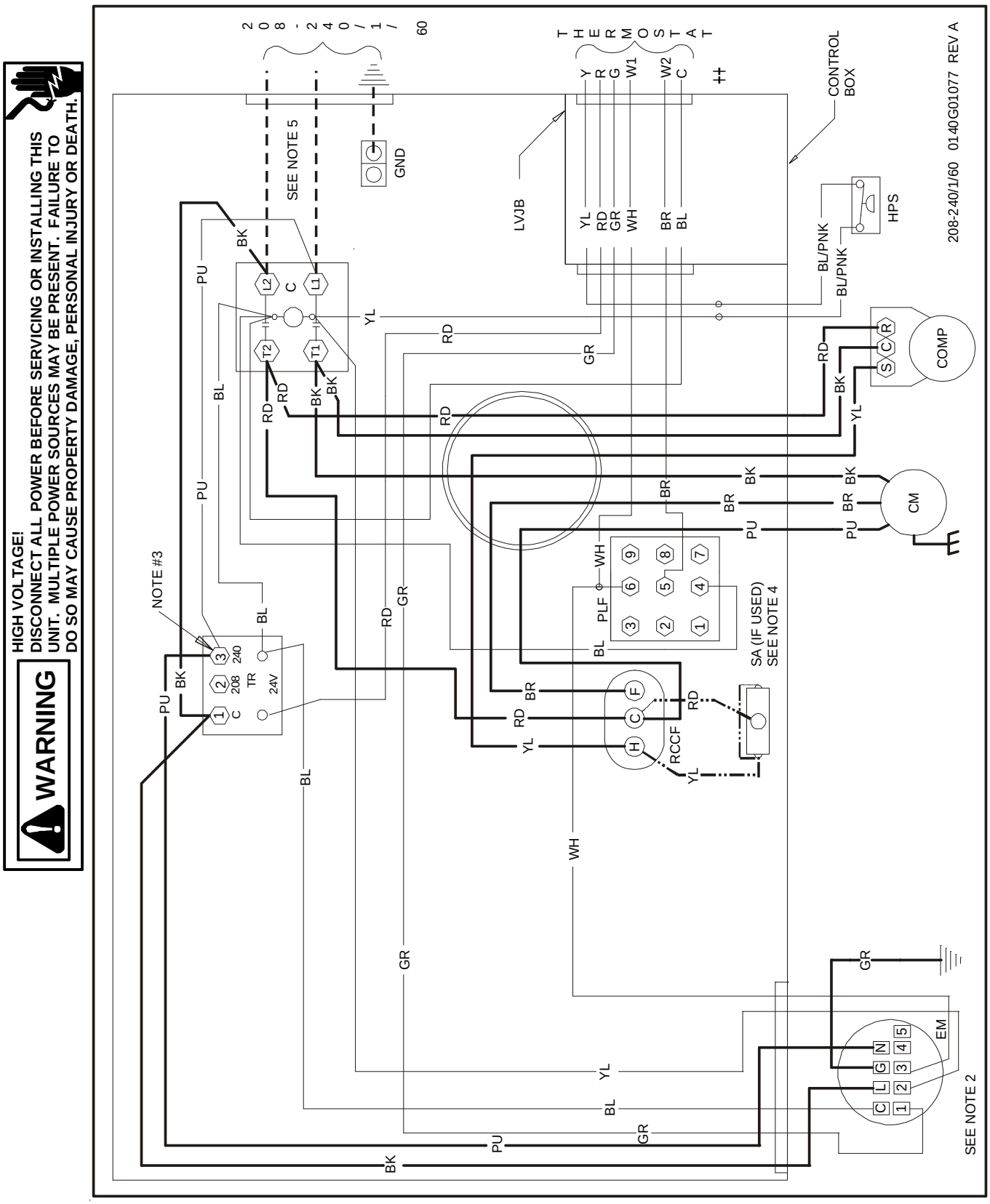



**20 KW**

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

# WIRING DIAGRAMS

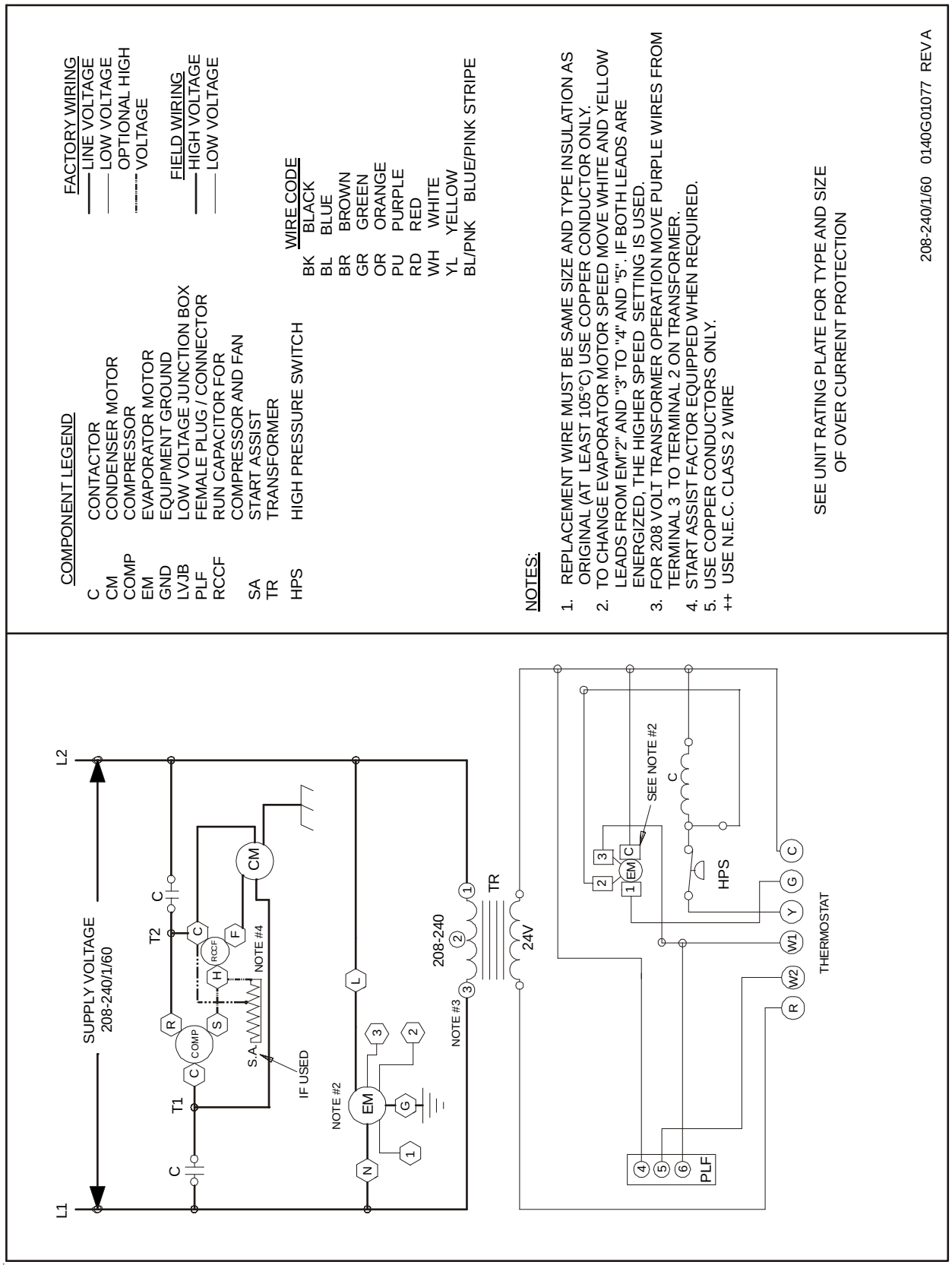
## GPC15[24-48]M41*




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.**




FACTORY WIRING
- LINE VOLTAGE
- LOW VOLTAGE
- OPTIONAL HIGH VOLTAGE

FIELD WIRING
- HIGH VOLTAGE
- LOW VOLTAGE

COMPONENT LEGEND

| | |
|---|---|
| C | CONTACTOR |
| CM | CONDENSER MOTOR |
| COMP | COMPRESSOR |
| EM | EVAPORATOR MOTOR |
| GND | EQUIPMENT GROUND |
| LVJB | LOW VOLTAGE JUNCTION BOX |
| PLF | FEMALE PLUG / CONNECTOR |
| RCCF | RUN CAPACITOR FOR COMPRESSOR AND FAN |
| SA | START ASSIST |
| TR | TRANSFORMER |
| HPS | HIGH PRESSURE SWITCH |

WIRE CODE

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

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 MOVE WHITE AND YELLOW LEADS FROM EM"2" AND "3" TO "4" AND "5". IF BOTH LEADS ARE ENERGIZED, THE HIGHER SPEED SETTING IS USED.
3. FOR 208 VOLT TRANSFORMER OPERATION MOVE PURPLE WIRES FROM TERMINAL 3 TO TERMINAL 2 ON TRANSFORMER.
4. START ASSIST FACTOR EQUIPPED WHEN REQUIRED.
5. USE COPPER CONDUCTORS ONLY.

++ USE N.E.C. CLASS 2 WIRE

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

208-240/1/60 0140G01077 REV A

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