**TECHNICAL SPECIFICATIONS**

REZNOR®

# P7TQ Series

## 6, 7½ and 10 Ton Packaged Electric/Electric Units

### 12.9 IEER Commercial System ASHRAE 90.1 - 2013

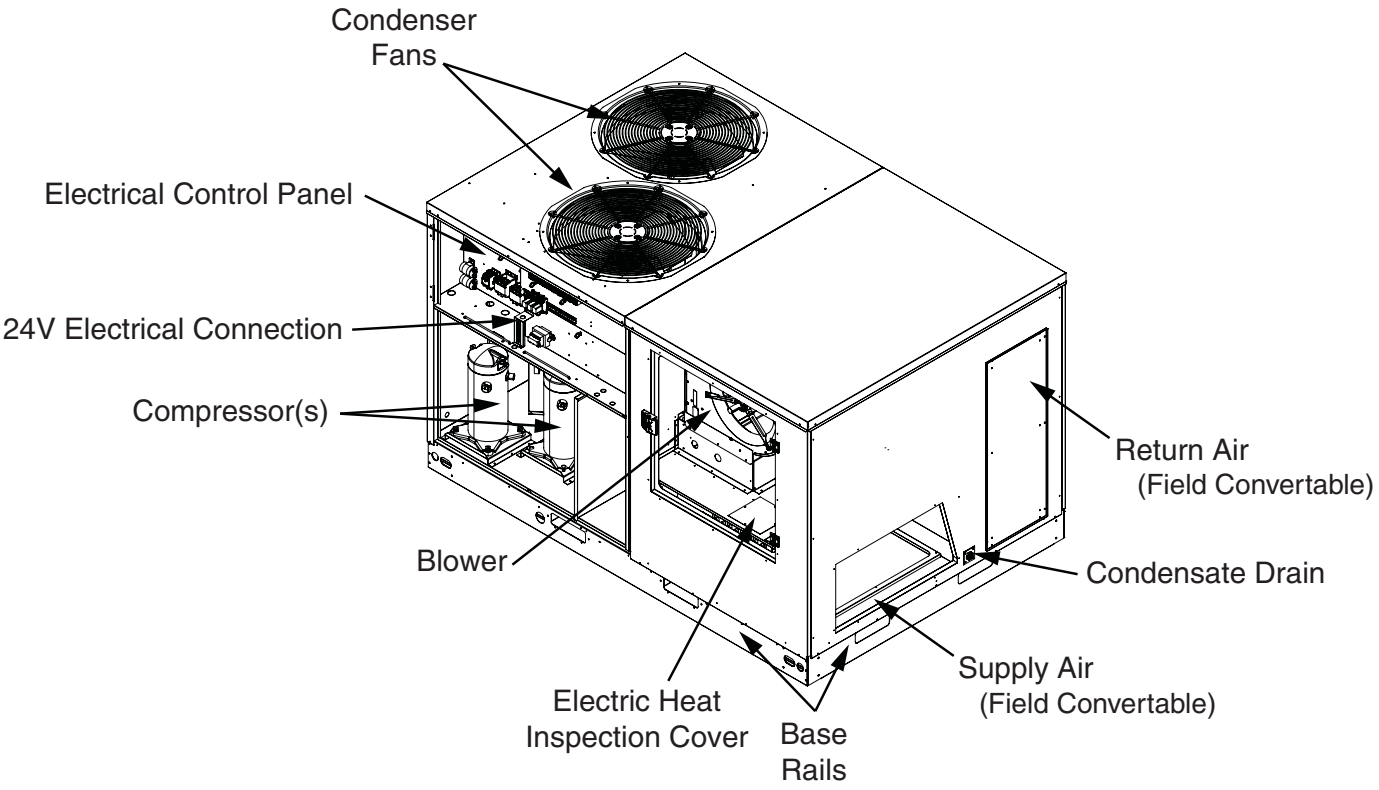
**Standard Features**

- Fits Carrier Pre-Existing Curbs
- High-Efficiency
- Micro-Channel Coils
- Foam Panel Wall Construction
- Hinged Access Doors
- Compatible Utility Connections


## FEATURES and BENEFITS

- **Quality Compressor:** State of the art scroll compressor is standard equipment.
- **Features Two-Stage Cooling & Single-Stage Heating:** Provides high/low operation.
- **High Efficient Blower Motor:** Meets the requirements of NEMA 12/19/2010
- **High-Pressure Switches:** Ensure long compressor life. Featuring manual reset high pressure control.
- **For Easy Service:** Hi/low service ports allow quick access without disrupting operation.
- **Permanently Lubricated Condenser Fan Motors:** A heavy duty PSC motor for long lasting reliability and quiet operation. Requires no maintenance and is completely protected from rain and snow.
- **90 VA Transformer:** Includes 4 Amp circuit breaker to protect the low voltage circuit.
- **Liquid Line Filter Driers:** Factory installed for convenience.
- **Crankcase Heater:** Protection from liquid flood back and future compressor failures.
- **Easy Compressor and Control Access:** Designed to make servicing easier for the contractor, access panels are provided to all controls and the compressor from the side of the unit.
- **Removable Top Grille Assembly:** Allows ease of service to the fan motor.
- **Full Perimeter Base Rail System:** Base rails have rigging holes and do not need to be removed for curb applications. Base rails have fork truck slots on three sides.
- **Durable Finish, Attractive Cabinet:** Designed using 20 gauge galvanized steel with a polyester urethane finish. The 950 hour salt spray finish is 1.5 mil thick and resists corrosion.
- **Unit Footprint:** Fits Carrier pre-existing curbs, eliminating the cost of an adaptor curb.
- **Compatible Connections:** Electrical connections align with many existing units installed today.
- **Foam Panel Wall Construction:** No exposed fiberglass insulation in air stream for increased air quality and suppressed mold growth; superior noise reduction.
- **Hinged Access Doors:** Easy access to blower, controls and filters with no leaks and no screws to lose.
- **Micro-Channel Coils:** All-aluminum for high corrosion resistance and increased heat transfer; 30% less refrigerant to reduce costs and save time.
- **High Efficiency:** 12.9 IEER meets ASHRAE Std - 90.1 - 2013 requirements.

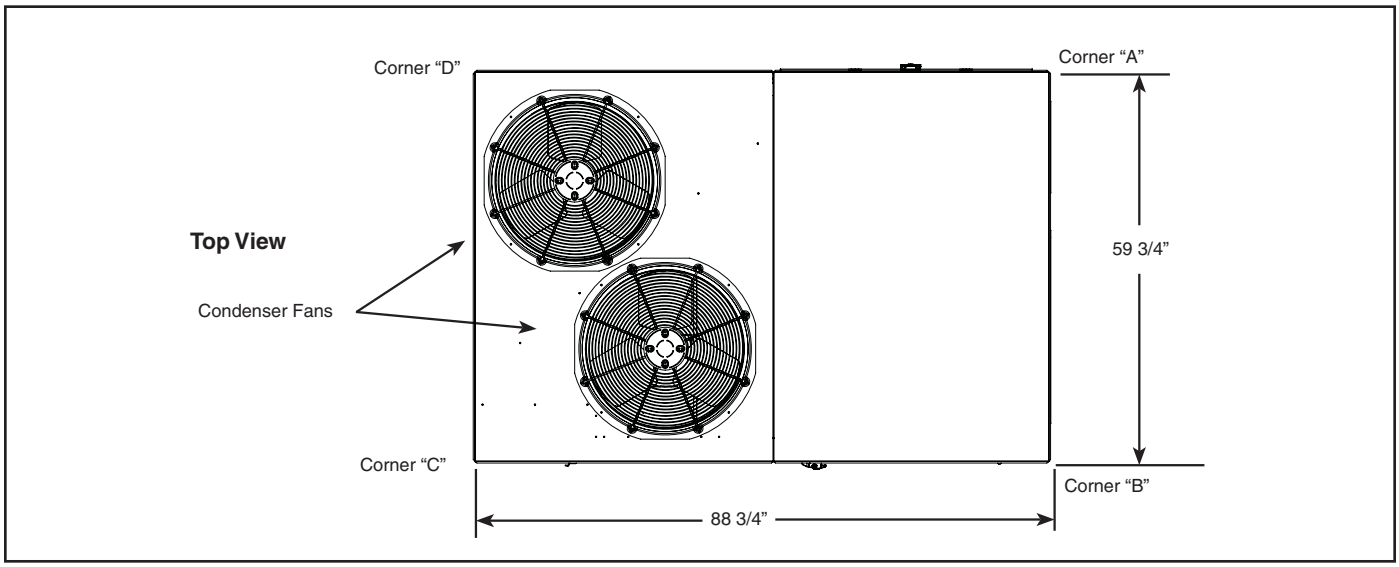
# P7TQ COMPONENT LOCATIONS

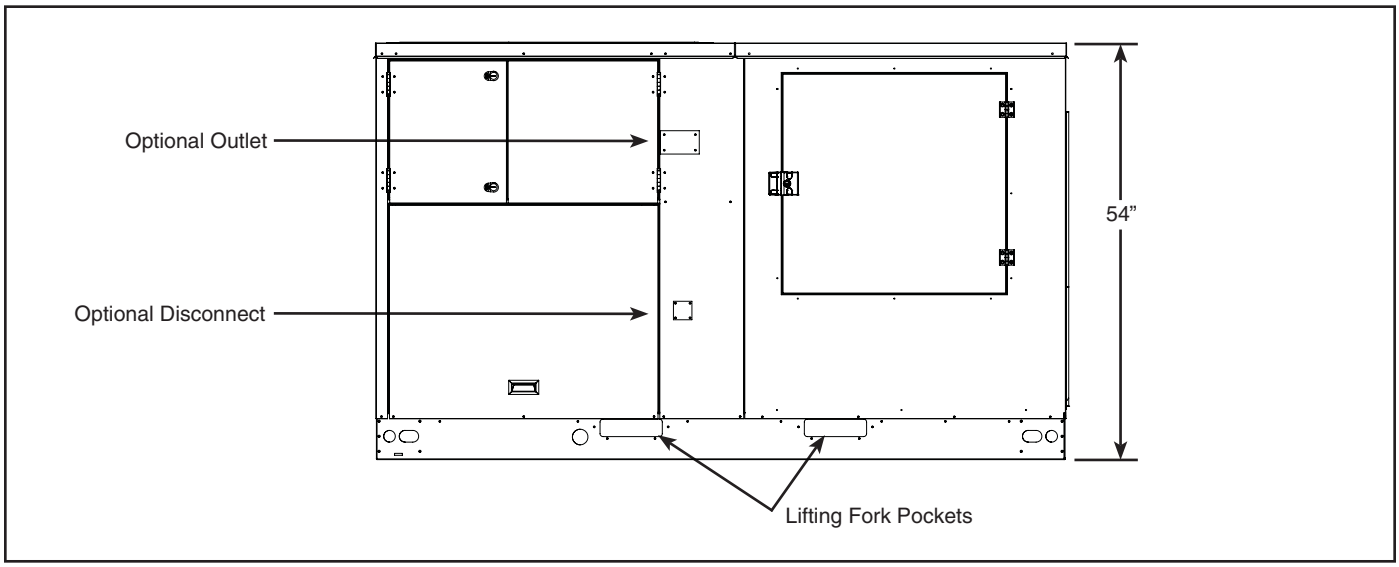


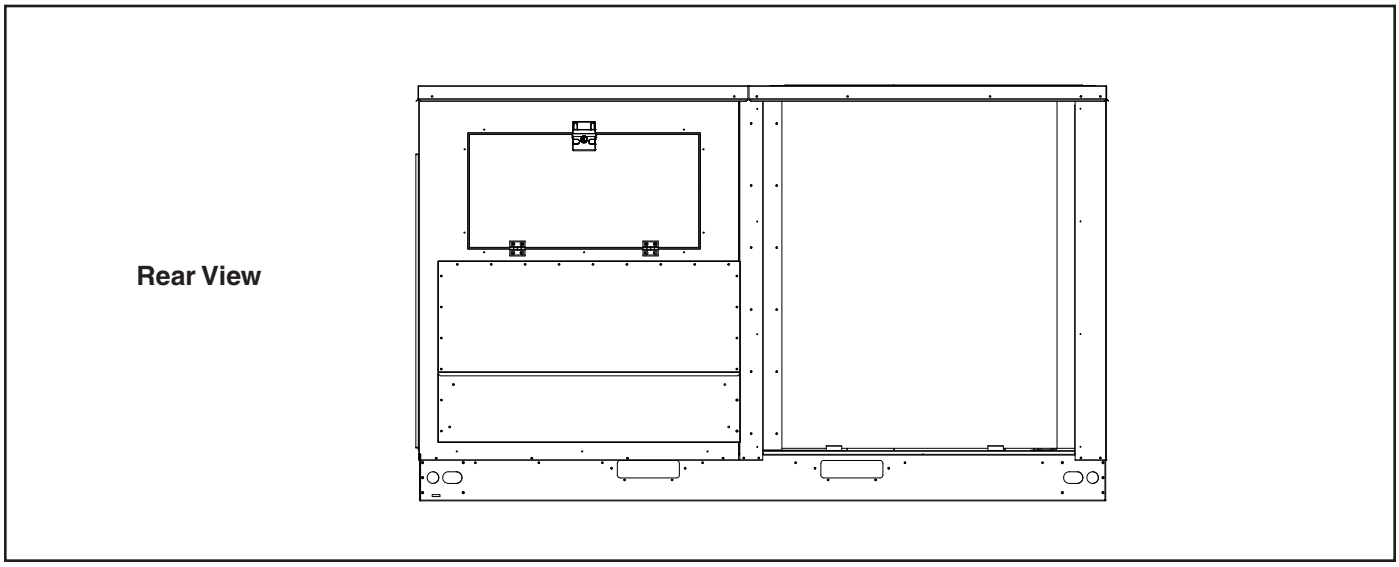

**Filter Sizes & Quantities**

| UNIT | FACTORY FILTER SIZE | QTY |
|---|---|---|
| P7TQ072 | 20 x 20 x 2 | 4 |
| P7TQ090 | 20 x 20 x 2 | 4 |
| P7TQ120 | 20 x 20 x 2 | 4 |

# P7TQ – PHYSICAL DATA
## Dimensions shown in inches

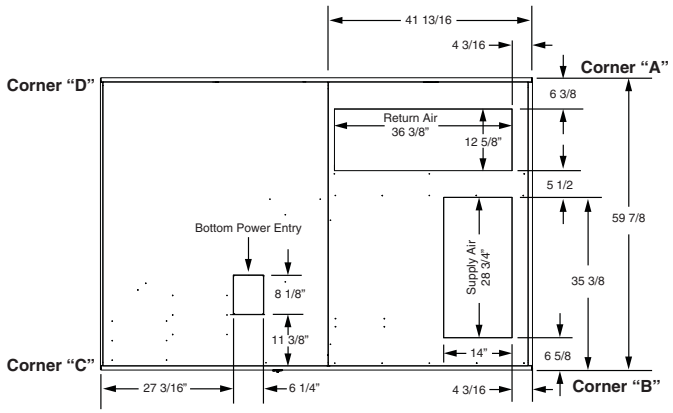


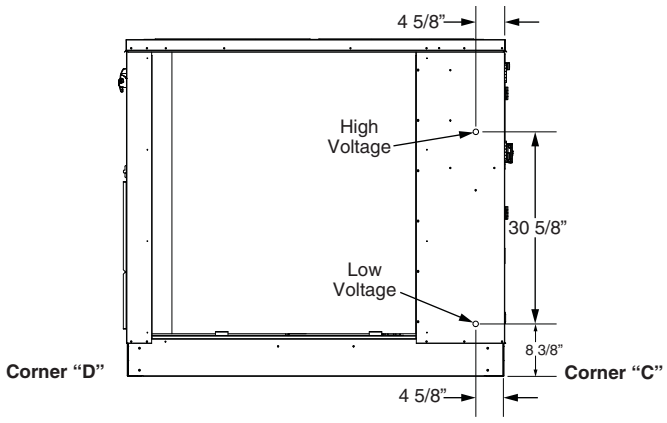




**Physical Dimensions for P7TQ Units**

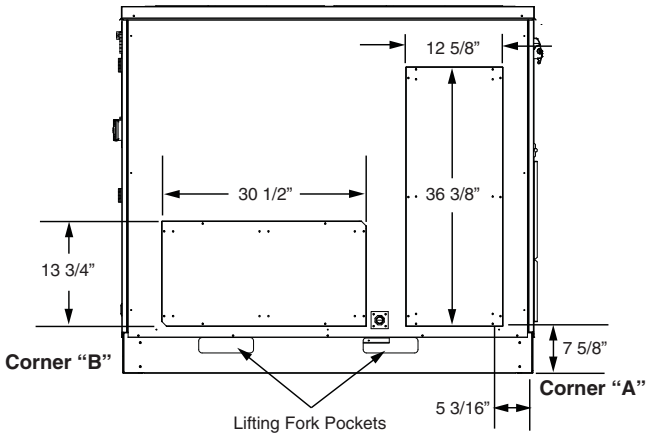
# P7TQ – PHYSICAL DATA (CONTINUED)
## Dimensions shown in inches




**Bottom Pan Top View**

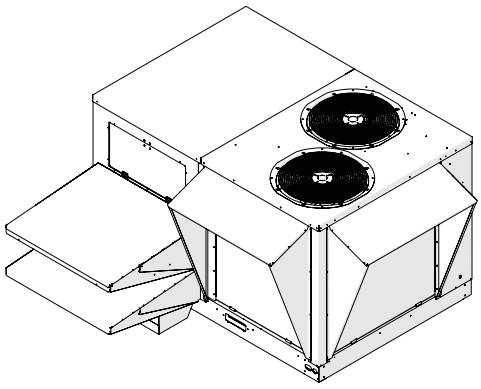


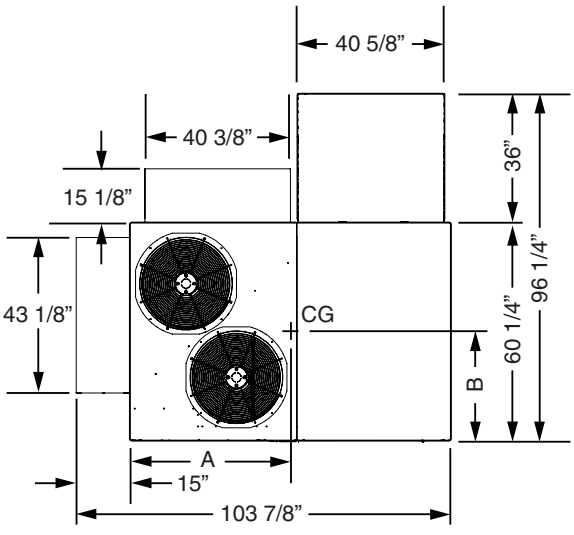

**Side View**
**Corners C & D**




**B-A End View**

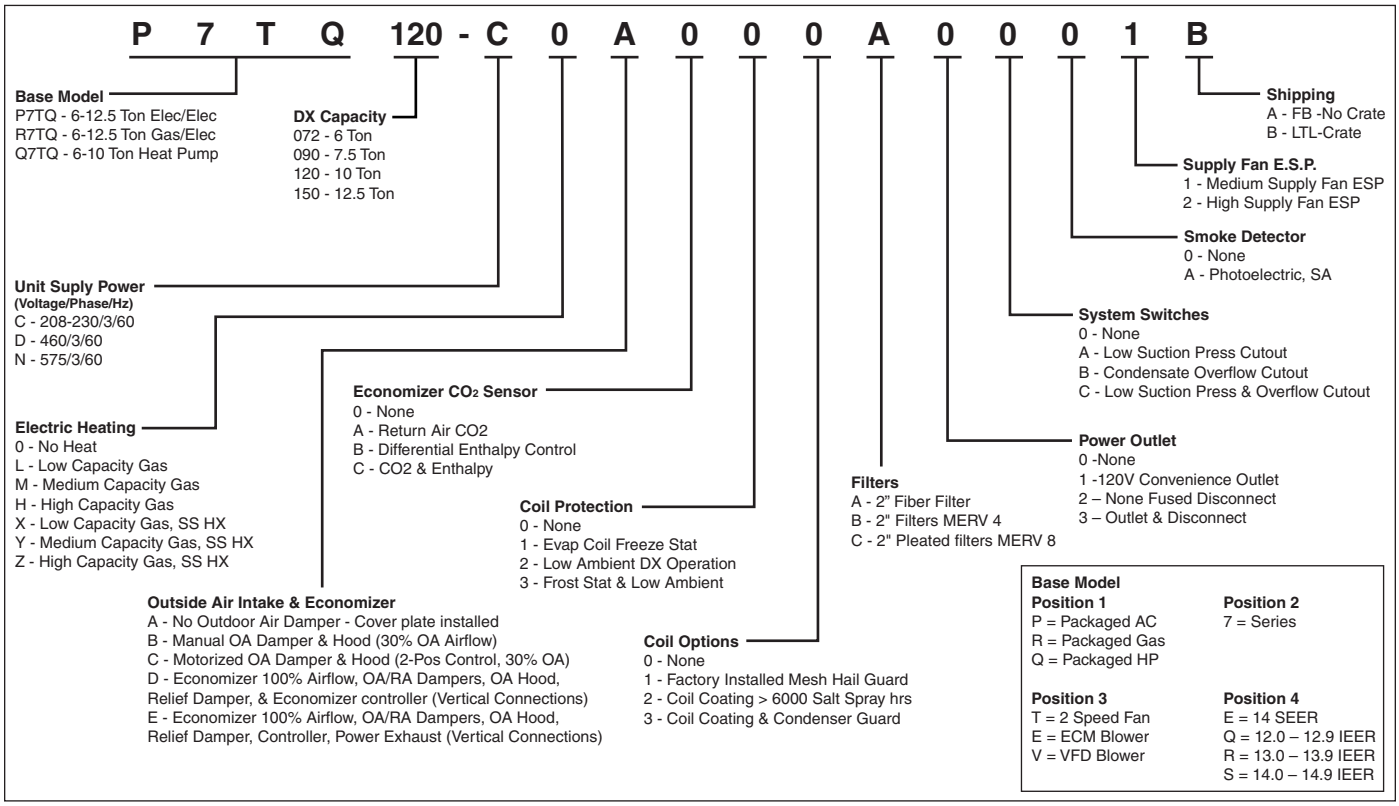
**P7TQ unit with optional hoods**






**Physical Dimensions for P7TQ Units (Continued)**

# MODEL IDENTIFICATION CODE




# CENTER OF GRAVITY & UNIT SHIPPING WEIGHTS

| MODEL NUMBER | UNIT WEIGHT ‡ | | SHIPPING WEIGHT | | CENTER OF GRAVITY INCHES (MM) | | CORNER WEIGHTS | | | | | | | | UNIT HEIGHT** | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | A | | B | | C | | D | | HORIZONTAL DUCT APPLICATIONS | VERTICAL DUCT APPLICATIONS |
| | LBS. | KG. | LBS. | KG | A | B | LBS. | KG. | LBS. | KG. | LBS. | KG. | LBS. | KG. | | |
| P7TQ072 | 1017 | 462 | 1139 | 517 | 50.5” | 27.0” | 232 | 105 | 362 | 164 | 302 | 137 | 199 | 90 | 54” | 48.5” |
| P7TQ090 | 1141 | 518 | 1263 | 574 | 46.5” | 24.5” | 291 | 132 | 346 | 157 | 298 | 135 | 249 | 113 | 54” | 48.5” |
| P7TQ120 | 1155 | 525 | 1277 | 580 | 46.5” | 24.0” | 275 | 125 | 347 | 157 | 319 | 145 | 246 | 112 | 54” | 48.5” |

**Baserails are not intended to be removed. Information provided is total unit height for horizontal duct applications or height dimension added to selected roof curb height for vertical duct applications.

‡ Unit weight without packaging or field installed accessories.

# REFRIGERANT CHARGE

| NOMINAL TONNAGE | FACTORY CHARGE 1ST STAGE / 2ND STAGE |
|---|---|
| 6 | 8.0 Lbs. |
| 7 1/2 | 5.81 / 5.88 Lbs. |
| 10 | 6.06 / 5.88 Lbs. |

# PHYSICAL SPECIFICATIONS DATA

| Model P7TQ | 072 | 090 | 120 |
|---|---|---|---|
| **Nominal Capacity (tons)** | **6** | **7.5** | **10.0** |
| **AHRI Number** | **10323840** | **10323841** | **10323842** |
| **Performance Data** [1,2,3] | | | |
| Rated Net Cooling Capacity (Btuh) | 72,000 | 90,000 | 114,000 |
| E.E.R. - Cooling Efficiency (Btuh/Watt) | 11.2 | 11.2 | 11.2 |
| IEER - Part Load Efficiency | 12.9 | 12.9 | 12.9 |
| Rated Airflow - CFM | 2,550 / 1,650 | 3,150 / 2,000 | 3,450 / 2,200 |

1) Certified in accordance with AHRI Standard 340/360 at the rated airflow shown and the minimum external static duct pressure allowed by the standard. ARI Rating for units with dual voltages are shown at highest rated unit voltage.

2) E.E.R. - Energy Efficiency Ratio: The EER and Net Capacity is determined @ 95˚F Outdoor DB and with air entering the evaporator at 80˚F DB / 67˚F WB

3) IEER - Intergrated Energy Efficiency Ratio: a measure of merit for part load performance of the unit.

# SOUND POWER VALUES

| P7TQ MBTU | Total Sound Power (dBA) | |
|---|---|---|
| | High Speed | Low Speed |
| 072 | 83 | 82 |
| 090 | 84 | 84 |
| 120 | 84 | 84 |

All sound power values are referenced to $10^{-12}$ W.

# ELECTRICAL DATA

## HEAT RISE & RANGE

| Model Number | Nominal Rated CFM | * Temperature Rise °F (°C) | | | |
|---|---|---|---|---|---|
| | | 9 KW | 18 KW | 30 KW | 35 KW |
| P7TQ072-* | 2550 | 11° F (6° C) | 22° F (12° C) | 37° F (21° C) | 43° F (24° C) |
| P7TQ090-* | 3150 | 9° F (5° C) | 18° F (10° C) | 30° F (17° C) | 35° F (19° C) |
| P7TQ120-* | 3450 | 8° F (4° C) | 16° F (9° C) | 27° F (15° C) | 32° F (18° C) |

* Temperature Rise (°F) calculation = (kW*3413) / 1.08 / Nominal CFM.
**NOTE:** For 208-230V electric heat kits operating @ 208 Volts, the Kw rating is derated 25%, therefore temperature rise will be lower than the values in the table.

## HEATER KIT MODEL CROSS REFERENCE

| NOMINAL TONNAGE | UNIT | NOMINAL KW | HEATER KIT MODEL | HEATER KIT PART NUMBER | BREAKERS | WIRING DIAGRAM NUMBER | LIMIT |
|---|---|---|---|---|---|---|---|
| 6, 7.5, & 10 Ton 208/230V / 3Ph. | P7TQ(072/090/120-C) Q7TQ(072/090/120-C) | 9 | H9HK009Q-01 | 1011669 | NONE | Figure 14 | 155° F |
| | | 18 | H9HK018Q-11 | 1011672 | 1 | Figure 17 | 155° F |
| | | 30 | H9HK030Q-21 | 1011675 | 2 | Figure 20 | 210° F |
| | | 35 | H9HK035Q-21 | 1011678 | 2 | Figure 20 | 210° F |
| 6, 7.5, & 10 Ton 460V / 3Ph. | P7TQ(072/090/120-D) Q7TQ(072/090/120-D) | 9 | H9HK009S-01 | 1011670 | NONE | Figure 15 | 155° F |
| | | 18 | H9HK018S-01 | 1011673 | NONE | Figure 18 | 155° F |
| | | 30 | H9HK030S-01 | 1011676 | NONE | Figure 21 | 210° F |
| | | 35 | H9HK035S-01 | 1011679 | NONE | Figure 21 | 210° F |
| 6, 7.5, & 10 Ton 575V / 3Ph. | P7TQ(072/090/120-N) Q7TQ(072/090/120-N) | 9 | H9HK009N-01 | 1011671 | NONE | Figure 16 | 170° F |
| | | 18 | H9HK018N-01 | 1011674 | NONE | Figure 19 | 170° F |
| | | 30 | H9HK030N-01 | 1011677 | NONE | Figure 22 | 155° F |
| | | 35 | H9HK035N-01 | 1011680 | NONE | Figure 23 | 155° F |

# MCA /MOP DATA (SINGLE CIRCUIT)

| SINGLE Circuit With No ELECTRIC HEAT | | | | | |
|---|---|---|---|---|---|
| COOLING TONNAGE (2),(3) | VOLTAGE (1) | 2 HP MOTOR | | 3 HP ECM MOTOR (OPTIONAL) | |
| | | MCA | MOP | MCA | MOP |
| 6 | 208V - 230V | 30.8 | 45 | 33.7 | 50 |
| | 460V | 14.9 | 20 | 16.4 | 20 |
| | 575V | 11.4 | 15 | N/A | N/A |
| 7 1/2 | 208V - 230V | 40.1 | 50 | 43.0 | 50 |
| | 460V | 19.2 | 25 | 20.7 | 25 |
| | 575V | 14.3 | 15 | N/A | N/A |
| 10 | 208V - 230V | 46.6 | 60 | 49.5 | 60 |
| | 460V | 23.1 | 30 | 24.6 | 30 |
| | 575V | 17.2 | 20 | N/A | N/A |

| Single Circuit With Electric Heat | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| COOLING TONNAGE (2),(3) | VOLTAGE (1) | 2 HP MOTOR | | | | | | | |
| | | MCA | | | | MOP | | | |
| | | 9 KW | 18KW | 30KW | 35KW | 9 KW | 18KW | 30KW | 35KW |
| 6 | 208V - 230V | 31 - 34.6 | 52.9 - 59.9 | 82.5 - 94.1 | 98.3 - 112.1 | 45 - 45 | 60 - 60 | 90 - 100 | 100 - 125 |
| | 460V | 18.5 | 30.8 | 46.9 | 56.0 | 20 | 35 | 50 | 60 |
| | 575V | 15.5 | 28.1 | 40.6 | 53.3 | 20 | 30 | 45 | 60 |
| 7 1/2 | 208V - 230V | 40.1 - 40.1 | 52.9 - 59.9 | 82.5 - 94.1 | 98.3 - 112.1 | 50 - 50 | 60 - 60 | 90 - 100 | 100 - 125 |
| | 460V | 19.2 | 30.8 | 46.9 | 56.0 | 25 | 35 | 50 | 60 |
| | 575V | 15.5 | 28.1 | 40.6 | 53.3 | 20 | 30 | 45 | 60 |
| 10 | 208V - 230V | 46.6 - 46.6 | 52.9 - 59.9 | 82.5 - 94.1 | 98.3 - 112.1 | 60 - 60 | 60 - 60 | 90 - 100 | 100 - 125 |
| | 460V | 23.1 | 30.8 | 46.9 | 56.0 | 30 | 35 | 50 | 60 |
| | 575V | 17.2 | 28.1 | 40.6 | 53.3 | 20 | 30 | 45 | 60 |

| High Static Drive: Single Circuit With Electric Heat | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| COOLING TONNAGE (2),(3) | VOLTAGE (1) | 3 HP ECM MOTOR (OPTIONAL) | | | | | | | |
| | | MCA | | | | MOP | | | |
| | | 9 KW | 18KW | 30KW | 35KW | 9 KW | 18KW | 30KW | 35KW |
| 6 | 208V - 230V | 34.6 - 38.3 | 56.5 - 63.5 | 86.1 - 97.8 | 101.9 - 115.8 | 50 - 50 | 60 - 70 | 90 - 100 | 110 - 125 |
| | 460V | 20.4 | 32.6 | 48.8 | 57.9 | 25 | 35 | 50 | 60 |
| | 575V | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 7 1/2 | 208V - 230V | 43.0 - 43.0 | 56.5 - 63.5 | 86.1 - 97.8 | 101.9 - 115.8 | 50 - 50 | 60 - 70 | 90 - 100 | 110 - 125 |
| | 460V | 20.7 | 32.6 | 48.8 | 57.9 | 25 | 35 | 50 | 60 |
| | 575V | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |
| 10 | 208V - 230V | 49.5 - 49.5 | 56.5 - 63.5 | 86.1 - 97.8 | 101.9 - 115.8 | 60 - 60 | 60 - 70 | 90 - 100 | 110 - 125 |
| | 460V | 24.6 | 32.6 | 48.8 | 57.9 | 30 | 35 | 50 | 60 |
| | 575V | - - - | - - - | - - - | - - - | - - - | - - - | - - - | - - - |

**NOTES:**

1) To achieve the rated unit performance, unit voltage should be within 2% of nominal.
2) For C series units:
   Nominal Unit Input Voltage = 208-230 Volt, 60 Hertz, 3 Phase
   Minimum allowed unit voltage = 187V
   Maximum allowed voltage = 253V
3) For D series units:
   Nominal Unit Input Voltage = 460 Volt, 60 Hertz, 3 Phase
   Minimum allowed unit voltage = 414V
   Maximum allowed voltage = 506V

FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated Load Amps;
MOP = Maximum Over-Current Protection; LRA = Locked Rotor Amps

# MCA /MOP DATA (MULTIPLE CIRCUIT)

| MULTIPLE CIRCUITS | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **FACTORY UNIT ELECTRICAL DATA** | | | | | | | | | | | | | | | | | |
| **COOLING TONNAGE** | **UNIT VOLTAGE** | **COOLING CIRCUIT** | | | | | | | | **HEATING CIRCUIIT** | | | | | | | |
| | | **9 KW** | | **18 KW** | | **30 KW** | | **35 KW** | | **9 KW** | | **18 KW** | | **30 KW** | | **35 KW** | |
| | | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** |
| 6 | 208-230 V | 30.8 - 30.8 | 45 - 45 | 30.8 - 30.8 | 45 - 45 | 30.8 - 30.8 | 45 - 45 | 30.8 - 30.8 | 45 - 45 | 23.5 - 27.1 | 30 - 30 | 45.4 - 52.3 | 50 - 60 | 75.0 - 86.6 | 80 - 90 | 90.7 - 104.6 | 100 - 110 |
| | 460 V | 14.9 | 20 | 14.9 | 20 | 14.9 | 20 | 14.9 | 20 | 18.6 | 15 | 27.1 | 30 | 43.3 | 50 | 52.3 | 60 |
| | 575 V | 11.4 | 15 | 11.4 | 15 | 11.4 | 15 | 11.4 | 15 | 16.3 | 15 | 26 | 30 | 37.7 | 50 | 50.2 | 60 |
| 7.5 | 208-230 V | 40.1 - 40.1 | 50 - 50 | 40.1 - 40.1 | 50 - 50 | 40.1 - 40.1 | 50 - 50 | 40.1 - 40.1 | 50 - 50 | 23.5 - 27.1 | 30 - 30 | 45.4 - 52.3 | 50 - 60 | 75.0 - 86.6 | 80 - 90 | 90.7 - 104.6 | 100 - 110 |
| | 460 V | 19.2 | 25 | 19.2 | 25 | 19.2 | 25 | 19.2 | 25 | 18.6 | 15 | 27.1 | 30 | 43.3 | 50 | 52.3 | 60 |
| | 575 V | 14.3 | 15 | 14.3 | 15 | 14.3 | 15 | 14.3 | 15 | 16.3 | 15 | 26 | 30 | 37.7 | 50 | 50.2 | 60 |
| 10 | 208-230 V | 46.6 - 46.6 | 60 - 60 | 46.6 - 46.6 | 60 - 60 | 46.6 - 46.6 | 60 - 60 | 46.6 - 46.6 | 60 - 60 | 23.5 - 27.1 | 30 - 30 | 45.4 - 52.3 | 50 - 60 | 75.0 - 86.6 | 80 - 90 | 90.7 - 104.6 | 100 - 110 |
| | 460 V | 23.1 | 30 | 23.1 | 30 | 23.1 | 30 | 23.1 | 30 | 18.6 | 15 | 27.1 | 30 | 43.3 | 50 | 52.3 | 60 |
| | 575 V | 17.2 | 20 | 17.2 | 20 | 17.2 | 20 | 17.2 | 20 | 16.3 | 15 | 26 | 30 | 37.7 | 50 | 50.2 | 60 |

| HIGH STATIC DRIVE ELECTRICAL DATA | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **COOLING TONNAGE** | **UNIT VOLTAGE** | **COOLING CIRCUIT** | | | | | | | | **HEATING CIRCUIIT** | | | | | | | |
| | | **9 KW** | | **18 KW** | | **30 KW** | | **35 KW** | | **9 KW** | | **18 KW** | | **30 KW** | | **35 KW** | |
| | | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** | **MCA** | **MOP** |
| 6 | 208-230 V | 33.7 - 33.7 | 50 - 50 | 33.7 - 33.7 | 50 - 50 | 33.7 - 33.7 | 50 - 50 | 33.7 - 33.7 | 50 - 50 | 23.5 - 27.1 | 30 - 30 | 45.4 - 52.3 | 50 - 60 | 75.0 - 86.6 | 80 - 90 | 90.7 - 104.6 | 100 - 110 |
| | 460 V | 16.4 | 20 | 16.4 | 20 | 16.4 | 20 | 16.4 | 20 | 18.6 | 15 | 27.1 | 30 | 43.3 | 50 | 52.3 | 60 |
| | 575 V | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 7.5 | 208-230 V | 43.0 - 43.0 | 50 - 50 | 43.0 - 43.0 | 50 - 50 | 43.0 - 43.0 | 50 - 50 | 43.0 - 43.0 | 50 - 50 | 23.5 - 27.1 | 30 - 30 | 45.4 - 52.3 | 50 - 60 | 75.0 - 86.6 | 80 - 90 | 90.7 - 104.6 | 100 - 110 |
| | 460 V | 20.7 | 25 | 20.7 | 25 | 20.7 | 25 | 20.7 | 25 | 18.6 | 15 | 27.1 | 30 | 43.3 | 50 | 52.3 | 60 |
| | 575 V | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| 10 | 208-230 V | 49.5 - 49.5 | 60 - 60 | 49.5 - 49.5 | 60 - 60 | 49.5 - 49.5 | 60 - 60 | 49.5 - 49.5 | 60 - 60 | 23.5 - 27.1 | 30 - 30 | 45.4 - 52.3 | 50 - 60 | 75.0 - 86.6 | 80 - 90 | 90.7 - 104.6 | 100 - 110 |
| | 460 V | 24.6 | 30 | 24.6 | 30 | 24.6 | 30 | 24.6 | 30 | 18.6 | 15 | 27.1 | 30 | 43.3 | 50 | 52.3 | 60 |
| | 575 V | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — | — |

**NOTES:**

1) To achieve the rated unit performance, unit voltage should be within 2% of nominal.
2) For C series units:
   Nominal Unit Input Voltage = 208-230 Volt, 60 Hertz, 3 Phase
   Minimum allowed unit voltage = 187V
   Maximum allowed voltage = 253V
3) For D series units:
   Nominal Unit Input Voltage = 460 Volt, 60 Hertz, 3 Phase
   Minimum allowed unit voltage = 414V
   Maximum allowed voltage = 506V

FLA = Full Load Amps; MCA = Minimum Circuit Ampacity; RLA = Rated Load Amps;
MOP = Maximum Over-Current Protection; LRA = Locked Rotor Amps

## BLOWER PERFORMANCE DATA

| |
|---|
| 3493 |
| 1017 |
| 2.07 |

**Factory Low Static Setting:** Recommended operational point

| |
|---|
| **3862** |
| **1159** |
| **3.03** |

**Medium Static Setting (Optional):** Recommended operational point

| |
|---|
| *2946* |
| *741* |
| *0.85* |

Italic font Indicates an allowable setting that is not recommended for unit operation. These operational points should be carefully examined by the installer for proper unit setup and heater operation if used.

Indicates a setting that is not permitted for unit operation

# BLOWER PERFORMANCE DATA

## P7TQ072-C/D/N SERIES

**2 HP, 2 SPEED DOWNFLOW BLOWER DATA**
Factory Standard & Medium Static Drive

| | | HIGH SPEED OPERATION | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| EXTERNAL UNIT STATIC (" WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | |
| | | FULLY CLOSED | 1/2 TURN OPEN | 1 TURN OPEN | 1.5 TURN OPEN | 2 TURNS OPEN* | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN | 4 TURNS OPEN | 4.5 TURNS OPEN | 5 TURNS OPEN |
| 0.1 | CFM | | | | | *2780* | 2703 | 2626 | 2538 | 2460 | 2455 | 2450 |
| | RPM | | | | | *887* | 866 | 845 | 821 | 869 | 848 | 826 |
| | kW | | | | | *1.27* | 1.17 | 1.07 | 1.08 | 1.31 | 1.15 | 0.98 |
| 0.2 | CFM | | | | 2728 | 2640 | 2545 | 2450 | **2555** | **2330** | **2310** | **2290** |
| | RPM | | | | 907 | 888 | 867 | 846 | **895** | **870** | **849** | **827** |
| | kW | | | | 1.40 | 1.27 | 1.20 | 1.14 | **1.20** | **1.19** | **1.13** | **1.07** |
| 0.3 | CFM | 2720 | 2670 | 2620 | 2535 | 2450 | 2380 | 2310 | **2420** | **2170** | **2145** | **2120** |
| | RPM | 978 | 952 | 926 | 908 | 889 | 868 | 847 | **896** | **871** | **850** | **828** |
| | kW | 1.39 | 1.38 | 1.36 | 1.29 | 1.23 | 1.17 | 1.11 | **1.26** | **1.20** | **1.09** | **0.98** |
| 0.4 | CFM | 2560 | 2525 | 2490 | 2390 | 2290 | 2230 | **2460** | **2300** | | | |
| | RPM | 980 | 954 | 927 | 909 | 890 | 869 | **921** | **897** | | | |
| | kW | 1.32 | 1.31 | 1.30 | 1.24 | 1.19 | 1.12 | **1.15** | **1.14** | | | |
| 0.5 | CFM | 2460 | 2355 | 2250 | 2236 | **2570** | **2460** | **2350** | | | | |
| | RPM | 982 | 955 | 928 | 910 | **966** | **945** | **924** | | | | |
| | kW | 1.25 | 1.22 | 1.21 | 1.21 | **1.33** | **1.26** | **1.19** | | | | |
| 0.6 | CFM | 2260 | **2670** | **2575** | **2488** | **2400** | **2300** | **2200** | | | | |
| | RPM | 963 | **1026** | **1005** | **987** | **968** | **947** | **925** | | | | |
| | kW | 1.23 | **1.52** | **1.46** | **1.33** | **1.21** | **1.11** | **1.01** | | | | |
| 0.7 | CFM | **2620** | **2530** | **2440** | **2335** | **2230** | **2120** | **2010** | | | | |
| | RPM | **1048** | **1027** | **1006** | **988** | **969** | **948** | **926** | | | | |
| | kW | **1.48** | **1.47** | **1.45** | **1.33** | **1.20** | **1.10** | **0.99** | | | | |
| 0.8 | CFM | **2510** | **2400** | **2290** | **2185** | **2080** | | | | | | |
| | RPM | **1049** | **1028** | **1007** | **989** | **970** | | | | | | |
| | kW | **1.42** | **1.36** | **1.29** | **1.20** | **1.11** | | | | | | |
| 0.9 | CFM | **2310** | **2225** | **2140** | | | | | | | | |
| | RPM | **1051** | **1030** | **1008** | | | | | | | | |
| | kW | **1.41** | **1.34** | **1.28** | | | | | | | | |
| 1.0 | CFM | **2210** | | | | | | | | | | |
| | RPM | **1052** | | | | | | | | | | |
| | kW | **1.40** | | | | | | | | | | |
| **LOW SPEED OPERATION - FOR REFERENCE ONLY** | | | | | | | | | | | | |
| Low Static | 0.1 | CFM | 1915 | 1828 | 1740 | 1715 | 1690 | 1619 | 1548 | 1486 | | | |
| | | RPM | 657 | 639 | 620 | 585 | 550 | 556 | 561 | 547 | | | |
| | | kW | 0.59 | 0.59 | 0.58 | 0.56 | 0.55 | 0.51 | 0.47 | 0.47 | | | |
| | 0.2 | CFM | 1680 | 1605 | 1530 | 1480 | 1430 | 1366 | 1302 | | | | |
| | | RPM | 658 | 640 | 621 | 589 | 556 | 559 | 562 | | | | |
| | | kW | 0.53 | 0.58 | 0.63 | 0.57 | 0.51 | 0.48 | 0.46 | | | | |
| | 0.3 | CFM | 1440 | | | | | | | | | | |
| | | RPM | 659 | | | | | | | | | | |
| | | kW | 0.48 | | | | | | | | | | |
| Medium Static | 0.2 | CFM | | | | | **1920** | **1855** | **1790** | **1670** | **1550** | **1500** | **1450** |
| | | RPM | | | | | **647** | **632** | **616** | **599** | **582** | **566.5** | **551** |
| | | kW | | | | | **0.53** | **0.49** | **0.45** | **0.49** | **0.53** | **0.51** | **0.50** |
| | 0.3 | CFM | **1910** | **1855** | **1800** | **1780** | **1760** | **1660** | **1560** | | | | |
| | | RPM | **701** | **687** | **672** | **660** | **648** | **633** | **617** | | | | |
| | | kW | **0.65** | **0.63** | **0.61** | **0.56** | **0.51** | **0.52** | **0.53** | | | | |
| | 0.4 | CFM | **1705** | **1653** | **1600** | **1560** | **1520** | | | | | | |
| | | RPM | **703** | **689** | **675** | **663** | **650** | | | | | | |
| | | kW | **0.59** | **0.59** | **0.58** | **0.53** | **0.49** | | | | | | |
| | 0.5 | CFM | **1510** | | | | | | | | | | |
| | | RPM | **705** | | | | | | | | | | |
| | | kW | **0.58** | | | | | | | | | | |

**NOTES:**
* Denotes Recommended Sheave Setting.
- Boldface type indicates factory recommended blower operating range.
- Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
- For 208V operation deduct approximately 0.5% from CFM shown.

**FACTORY STANDARD DRIVE CONSISTS OF:**
12" x 12" FC Blower, 2 HP / 2 Speed Motor
1VP40 Sheave, BK77 Pulley Belt & B57 Belt

**MEDIUM STATIC DRIVE CONSISTS OF:**
Same except uses 1VP44 Motor Sheave.

# BLOWER PERFORMANCE DATA

## P7TQ072-C/D/N SERIES

**2 HP, 2 SPEED, HORIZONTAL BLOWER DATA**
Factory Standard & Medium Static Drive

| EXTERNAL UNIT STATIC (" WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 0.5 TURN OPEN | 1 TURN OPEN | 1.5 TURN OPEN | 2 TURNS OPEN* | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN | 4 TURNS OPEN | 4.5 TURNS OPEN | 5 TURNS OPEN |
| **HIGH SPEED OPERATION** | | | | | | | | | | | | |
| 0.1 | CFM | | | | | | | | | | | |
| | RPM | | | | | | | | | | | |
| | kW | | | | | | | | | | | |
| 0.2 | CFM | | | | | | | | | | | *2800* |
| | RPM | | | | | | | | | | | *740* |
| | kW | | | | | | | | | | | *0.81* |
| 0.3 | CFM | | | | | | | | | 2700 | 2650 | 2600 |
| | RPM | | | | | | | | | 765 | 754 | 742 |
| | kW | | | | | | | | | 0.85 | 0.84 | 0.82 |
| 0.4 | CFM | | | | | | | | 2735 | 2520 | 2460 | 2400 |
| | RPM | | | | | | | | 802 | 767 | 756 | 744 |
| | kW | | | | | | | | 0.88 | 0.86 | 0.85 | 0.83 |
| 0.5 | CFM | | | | | | | 2780 | 2525 | 2270 | 2205 | 2140 |
| | RPM | | | | | | | 838 | 804 | 769 | 758 | 746 |
| | kW | | | | | | | 0.90 | 0.89 | 0.87 | 0.86 | 0.84 |
| 0.6 | CFM | | | | | *2830* | 2685 | 2540 | 2255 | 1970 | 1880 | 1790 |
| | RPM | | | | | *880* | 860 | 839 | 804.5 | 770 | 759 | 747 |
| | kW | | | | | *0.89* | 0.90 | 0.91 | 0.89 | 0.87 | 0.86 | 0.85 |
| 0.7 | CFM | | | | 2735 | 2600 | 2435 | 2270 | | | | |
| | RPM | | | | 904 | 882 | 862 | 841 | | | | |
| | kW | | | | 0.91 | 0.89 | 0.90 | 0.91 | | | | |
| 0.8 | CFM | | *2805* | 2680 | 2505 | 2330 | 2140 | 1950 | | | | |
| | RPM | | *945* | 931 | 908 | 884 | 865 | 845 | | | | |
| | kW | | *0.90* | 0.92 | 0.91 | 0.90 | 0.90 | 0.90 | | | | |
| 0.9 | CFM | 2680 | 2545 | 2410 | 2220 | 2030 | | | | | | |
| | RPM | 963 | 948 | 932 | 910 | 887 | | | | | | |
| | kW | 0.87 | 0.91 | 0.94 | 0.93 | 0.91 | | | | | | |
| 1.0 | CFM | 2410 | 2265 | 2120 | | | | | | | | |
| | RPM | 963 | 949 | 934 | | | | | | | | |
| | kW | 0.87 | 0.91 | 0.95 | | | | | | | | |
| **LOW SPEED OPERATION - FOR REFERENCE ONLY** | | | | | | | | | | | | |
| 0.1 | CFM | 2460 | 2405 | 2350 | 2278 | 2205 | 2133 | 2060 | 1955 | 1850 | 1825 | 1800 |
| | RPM | 639 | 629 | 618 | 604 | 589 | 575 | 560 | 537 | 514 | 509 | 503 |
| | kW | 0.70 | 0.74 | 0.78 | 0.77 | 0.76 | 0.75 | 0.74 | 0.73 | 0.71 | 0.73 | 0.75 |
| 0.2 | CFM | 2240 | 2200 | 2160 | 2070 | 1980 | 1890 | 1800 | 1675 | 1550 | 1500 | 1450 |
| | RPM | 637 | 628 | 619 | 605 | 591 | 576 | 562 | 538 | 514 | 510 | 505 |
| | kW | 0.71 | 0.74 | 0.78 | 0.77 | 0.76 | 0.75 | 0.75 | 0.73 | 0.72 | 0.74 | 0.76 |
| 0.3 | CFM | 2000 | 1940 | 1880 | 1775 | 1670 | 1565 | 1460 | 1318 | 1175 | | |
| | RPM | 639 | 630 | 621 | 607 | 592 | 578 | 563 | 539 | 515 | | |
| | kW | 0.72 | 0.74 | 0.76 | 0.76 | 0.76 | 0.75 | 0.75 | 0.74 | 0.73 | | |
| 0.4 | CFM | 1690 | 1610 | 1530 | | | | | | | | |
| | RPM | 643 | 633 | 623 | | | | | | | | |
| | kW | 0.72 | 0.74 | 0.77 | | | | | | | | |

**NOTES:**
- Boldface type indicates factory recommended blower operating range.
- Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
- For 208V operation deduct approximately 0.5% from CFM shown.

**FACTORY DRIVE CONSISTS OF:**
12" x 12" FC Blower, 2 HP / 2 Speed Motor
1VP40 Sheave, BK77 Pulley, and B57 Belt.

# BLOWER PERFORMANCE DATA

## P7TQ-090C/D/N SERIES

**2 HP, 2 SPEED, DOWNFLOW BLOWER DATA**
Factory Standard Static Drive

| EXTERNAL UNIT STATIC (IN WC) | OPERATING @ 230V, 460V OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 1/2 TURN OPEN | 1 TURN OPEN | 1.5 TURNS OPEN | 2 TURNS OPEN | 2.5 TURNS OPEN | 3 TURNS OPEN* | 3.5 TURNS OPEN | 4 TURN OPEN | 4.5 TURNS OPEN | 5 TURNS OPEN |
| **HIGH SPEED OPERATION** | | | | | | | | | | | | |
| 0.1 | CFM | | | | | | 3625 | 3520 | 3420 | 3320 | 3205 | 3090 |
| | RPM | | | | | | 762 | 742 | 722 | 702 | 683 | 663 |
| | kW | | | | | | 1.42 | 1.34 | 1.24 | 1.14 | 1.07 | 1.00 |
| 0.2 | CFM | | | | *3700* | 3570 | 3495 | 3420 | 3275 | 3130 | 2985 | 2840 |
| | RPM | | | | *803* | 783 | 763 | 743 | 723 | 703 | 684 | 664 |
| | kW | | | | *1.52* | 1.40 | 1.33 | 1.25 | 1.16 | 1.06 | 1.00 | 0.94 |
| 0.3 | CFM | | *3725* | 3650 | 3525 | 3400 | 3300 | 3200 | 3085 | 2970 | 2815 | *2660* |
| | RPM | | *838* | 823 | 804 | 785 | 765 | 744 | 724 | 704 | 685 | *665* |
| | kW | | *1.70* | 1.60 | 1.49 | 1.38 | 1.30 | 1.22 | 1.12 | 1.02 | 0.93 | *0.84* |
| 0.4 | CFM | 3630 | 3545 | 3460 | 3355 | 3250 | 3130 | 3010 | 2885 | 2760 | | |
| | RPM | 853 | 839 | 824 | 806 | 787 | 766 | 745 | 725 | 705 | | |
| | kW | 1.75 | 1.63 | 1.50 | 1.39 | 1.29 | 1.23 | 1.17 | 1.05 | 0.92 | | |
| 0.5 | CFM | 3520 | 3425 | 3330 | 3205 | 3080 | 2940 | 2800 | | | | |
| | RPM | 854 | 840 | 825 | 807 | 788 | 767 | 746 | | | | |
| | kW | 1.67 | 1.55 | 1.44 | 1.35 | 1.27 | 1.19 | 1.11 | | | | |
| 0.6 | CFM | 3310 | 3230 | 3150 | 3025 | 2900 | 2745 | *2600* | | | | |
| | RPM | 855 | 841 | 826 | 808 | 789 | 768 | *747* | | | | |
| | kW | 1.60 | 1.48 | 1.36 | 1.25 | 1.14 | 1.08 | *1.01* | | | | |
| 0.7 | CFM | 3170 | 3040 | 2910 | 2790 | *2690* | | | | | | |
| | RPM | 856 | 843 | 829 | 810 | *791* | | | | | | |
| | kW | 1.51 | 1.40 | 1.28 | 1.19 | *1.10* | | | | | | |
| 0.8 | CFM | 2940 | 2745 | *2550* | | | | | | | | |
| | RPM | 857 | 844 | *831* | | | | | | | | |
| | kW | 1.42 | 1.33 | *1.25* | | | | | | | | |
| 0.9 | CFM | *2660* | | | | | | | | | | |
| | RPM | *858* | | | | | | | | | | |
| | kW | *1.37* | | | | | | | | | | |
| **LOW SPEED OPERATION (FOR REFERENCE ONLY)** | | | | | | | | | | | | |
| 0.1 | CFM | 2560 | 2505 | 2450 | 2375 | 2300 | 2215 | 2130 | 2050 | 1970 | 1930 | 1890 |
| | RPM | 572 | 562 | 551 | 540 | 528 | 514 | 500 | 487 | 473 | 458 | 443 |
| | kW | 0.73 | 0.69 | 0.65 | 0.59 | 0.54 | 0.53 | 0.52 | 0.63 | 0.73 | 0.56 | 0.39 |
| 0.2 | CFM | 2320 | 2240 | 2160 | 2110 | 2060 | 1945 | 1830 | 1745 | 1660 | 1630 | 1600 |
| | RPM | 573 | 563 | 552 | 541 | 530 | 516 | 501 | 488 | 474 | 459 | 444 |
| | kW | 0.68 | 0.64 | 0.60 | 0.55 | 0.50 | 0.49 | 0.47 | 0.44 | 0.41 | 0.40 | 0.38 |
| 0.3 | CFM | 2030 | 1965 | 1900 | 1710 | 1520 | 1500 | 1480 | 1430 | 1380 | | |
| | RPM | 574 | 564 | 553 | 543 | 533 | 517 | 501 | 488 | 475 | | |
| | kW | 0.62 | 0.58 | 0.54 | 0.49 | 0.44 | 0.43 | 0.43 | 0.40 | 0.37 | | |
| 0.4 | CFM | 1680 | 1640 | 1600 | | | | | | | | |
| | RPM | 575 | 565 | 554 | | | | | | | | |
| | kW | 0.56 | 0.53 | 0.50 | | | | | | | | |

**NOTES:**

* Denotes Recommended Sheave Setting.
- Boldface type indicates factory recommended blower operating range.
- Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
- For 208V operation deduct approximately 0.5% from CFM shown.

**STANDARD FACTORY DRIVE CONSISTS OF:**

15" x 15" FC Blower, 2 HP / 2 Speed Motor
1VP4O Sheave, BK85 Pulley and B57 Belt.

# BLOWER PERFORMANCE DATA

## P7TQ090-C/D/N SERIES

**2 HP, 2 SPEED HORIZONTAL BLOWER DATA**

Drive Change Required, See Note

| EXTERNAL UNIT STATIC (" WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 1/2 TURN OPEN | 1 TURN OPEN | 1.5 TURN OPEN | 2 TURNS OPEN* | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN | 4 TURNS OPEN | 4.5 TURNS OPEN | 5 TURNS OPEN |
| **HIGH SPEED OPERATION** | | | | | | | | | | | | |
| 0.1 | CFM | | | | | | | | **3635** | **3480** | **3385** | **3290** |
| | RPM | | | | | | | | **644** | **625** | **609** | **593** |
| | kW | | | | | | | | **0.91** | **0.89** | **0.92** | **0.94** |
| 0.2 | CFM | | | | | | **3675** | **3555** | **3400** | **3240** | **3135** | **3030** |
| | RPM | | | | | | **682** | **665** | **645** | **625** | **610** | **594** |
| | kW | | | | | | **0.90** | **0.94** | **0.92** | **0.90** | **0.91** | **0.93** |
| 0.3 | CFM | | | | *3720* | **3580** | **3450** | **3320** | **3160** | **3000** | 3525 | 3380 |
| | RPM | | | | *718* | **705** | **686** | **666** | **645** | **624** | 692 | 674 |
| | kW | | | | *0.88* | **0.85** | **0.89** | **0.94** | **0.92** | **0.90** | 0.91 | 0.89 |
| 0.4 | CFM | | *3724* | **3630** | **3480** | **3330** | **3185** | **3040** | 3620 | 3465 | 3298 | 3130 |
| | RPM | | *747* | **733** | **719** | **705** | **686** | **667** | 732 | 710 | 693 | 676 |
| | kW | | *0.91* | **0.90** | **0.87** | **0.85** | **0.88** | **0.92** | 0.90 | 0.93 | 0.92 | 0.90 |
| 0.5 | CFM | **3600** | **3500** | **3400** | **3240** | **3080** | **2920** | 3570 | 3385 | 3200 | 3038 | 2875 |
| | RPM | **762** | **748** | **734** | **720** | **705** | **687** | 755 | 733 | 711 | 695 | 678 |
| | kW | **0.91** | **0.89** | **0.88** | **0.86** | **0.85** | **0.87** | 0.88 | 0.91 | 0.94 | 0.92 | 0.90 |
| 0.6 | CFM | **3325** | **3168** | **3010** | **2790** | 3650 | 3495 | 3340 | 3113 | 2885 | | |
| | RPM | **763** | **749** | **736** | **720** | 793 | 775 | 757 | 735 | 713 | | |
| | kW | **0.88** | **0.88** | **0.88** | **0.86** | 0.93 | 0.92 | 0.92 | 0.92 | 0.91 | | |
| 0.7 | CFM | **3050** | **2835** | 3760 | 3590 | 3420 | 3220 | 3020 | | | | |
| | RPM | **764** | **751** | 832 | 813 | 794 | 775 | 756 | | | | |
| | kW | **0.86** | **0.87** | 0.94 | 0.93 | 0.93 | 0.91 | 0.89 | | | | |
| 0.8 | CFM | | 3634 | 3500 | 3225 | 2950 | | | | | | |
| | RPM | | 849 | 836 | 816 | 797 | | | | | | |
| | kW | | 0.91 | 0.94 | 0.93 | 0.93 | | | | | | |
| 0.9 | CFM | 3520 | 3345 | 3170 | | | | | | | | |
| | RPM | 864 | 851 | 837 | | | | | | | | |
| | kW | 0.88 | 0.91 | 0.93 | | | | | | | | |
| 1.0 | CFM | 3025 | | | | | | | | | | |
| | RPM | 867.5 | | | | | | | | | | |
| | kW | 0.88 | | | | | | | | | | |
| **LOW SPEED OPERATION - FOR REFERENCE ONLY** | | | | | | | | | | | | |
| Alternate Drive 0.1 | CFM | | | **2526** | **2436** | **2345** | **2278** | **2211** | **2093** | **1975** | **1880** | **1785** |
| | RPM | | | **488** | **478** | **468** | **456** | **443** | **430** | **417** | **601** | **784** |
| | kW | | | **0.73** | **0.72** | **0.72** | **0.71** | **0.71** | **0.71** | **0.71** | **0.73** | **0.74** |
| Alternate Drive 0.2 | CFM | **2345** | **2249** | **2152** | **2062** | **1972** | **1803** | **1634** | **1502** | **1370** | **1268** | **1165** |
| | RPM | **509** | **499** | **489** | **479** | **469** | **457** | **445** | **431** | **417** | **602** | **786** |
| | kW | **0.71** | **0.72** | **0.73** | **0.73** | **0.72** | **0.72** | **0.71** | **0.71** | **0.72** | **0.73** | **0.74** |
| Alternate Drive 0.3 | CFM | **1780** | **1667** | **1553** | **1432** | **1310** | **1183** | **1056** | | | | |
| | RPM | **513** | **503** | **493** | **482** | **471** | **459** | **447** | | | | |
| | kW | **0.71** | **0.72** | **0.73** | **0.73** | **0.72** | **0.72** | **0.72** | | | | |
| Factory Drive 0.2 | CFM | | | | | | 2740 | 2650 | 2540 | 2430 | 2340 | 2250 |
| | RPM | | | | | | 519 | 506 | 491 | 475 | 464 | 453 |
| | kW | | | | | | 0.73 | 0.74 | 0.74 | 0.74 | 0.74 | 0.73 |
| Factory Drive 0.3 | CFM | 2880 | 2815 | 2750 | 2640 | 2530 | 2430 | 2330 | 2195 | 2060 | 1955 | 1850 |
| | RPM | 577 | 568 | 559 | 546 | 532 | 520 | 507 | 492 | 476 | 465 | 454 |
| | kW | 0.71 | 0.72 | 0.73 | 0.72 | 0.72 | 0.72 | 0.73 | 0.73 | 0.74 | 0.74 | 0.74 |
| Factory Drive 0.4 | CFM | 2605 | 2507 | 2409 | 2285 | 2160 | 2000 | 1840 | | | | |
| | RPM | 578 | 570 | 561 | 547 | 533 | 521 | 508 | | | | |
| | kW | 0.70 | 0.72 | 0.73 | 0.72 | 0.72 | 0.72 | 0.72 | | | | |
| Factory Drive 0.5 | CFM | 2070 | 1955 | 1840 | | | | | | | | |
| | RPM | 580 | 572 | 564 | | | | | | | | |
| | kW | 0.71 | 0.72 | 0.73 | | | | | | | | |

**NOTES:**

- Boldface type indicates factory recommended blower operating range.
- Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
- For 208V operation deduct approximately 0.5% from CFM shown.

**FACTORY DRIVE CONSISTS OF:**

15" x 15" FC Blower, 2 HP / 2 Speed Motor
1VP40 Sheave, BK85 Pulley, and B57 Belt.

**ALTERNATE DRIVE SETING (OPTIONAL):**

Same except uses BK95 Blower Pulley and B59 Belt.

# BLOWER PERFORMANCE DATA

## P7TQ-120C/D/N SERIES

**2 HP, 2 SPEED, DOWNFLOW BLOWER DATA**

Factory Standard Static Drive:

**HIGH SPEED OPERATION**

| EXTERNAL UNIT STATIC (IN WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 0.5 TURN OPEN | 1 TURN OPEN | 1.5 TURNS OPEN | 2 TURNS OPEN | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN* | 4 TURNS OPEN | 4.5 TURNS OPEN | 5 TURNS OPEN |
| 0.1 | CFM | | | | | | | | *3830* | 3690 | 3585 | 3480 |
| | RPM | | | | | | | | *794* | 772 | 751 | 729 |
| | kW | | | | | | | | *1.60* | 1.43 | 1.34 | 1.25 |
| 0.2 | CFM | | | | | | | 3840 | 3680 | 3520 | 3395 | 3270 |
| | RPM | | | | | | | 819 | 797 | 774 | 752 | 730 |
| | kW | | | | | | | 1.65 | 1.54 | 1.43 | 1.31 | 1.20 |
| 0.3 | CFM | | | | | | 3765 | 3630 | 3500 | 3370 | 3245 | 3120 |
| | RPM | | | | | | 841 | 820 | 798 | 775 | 753 | 731 |
| | kW | | | | | | 1.73 | 1.57 | 1.46 | 1.34 | 1.24 | 1.13 |
| 0.4 | CFM | | | | | 3780 | 3620 | 3460 | 3335 | 3210 | 3050 | 2890 |
| | RPM | | | | | 860 | 841 | 821 | 800 | 778 | 755 | 732 |
| | kW | | | | | 1.835 | 1.67 | 1.51 | 1.41 | 1.30 | 1.19 | 1.08 |
| 0.5 | CFM | | | | 3720 | 3560 | 3435 | 3310 | 3145 | 2980 | | |
| | RPM | | | | 884 | 861 | 842 | 823 | 801 | 779 | | |
| | kW | | | | 1.85 | 1.72 | 1.59 | 1.47 | 1.36 | 1.25 | | |
| 0.6 | CFM | | | 3760 | 3575 | 3390 | 3260 | 3130 | 2960 | | | |
| | RPM | | | 908 | 885 | 862 | 843 | 824 | 802 | | | |
| | kW | | | 1.864 | 1.76 | 1.66 | 1.50 | 1.34 | 1.20 | | | |
| 0.7 | CFM | | | 3610 | 3420 | 3230 | 3095 | 2960 | | | | |
| | RPM | | | 910 | 888 | 865 | 846 | 826 | | | | |
| | kW | | | 1.87 | 1.72 | 1.57 | 0.85 | 0.13 | | | | |
| 0.8 | CFM | | 3565 | 3420 | 3225 | 3030 | *2830* | | | | | |
| | RPM | | 929 | 912 | 889 | 866 | *847* | | | | | |
| | kW | | 1.905 | 1.68 | 1.59 | 1.50 | *1.32* | | | | | |
| 0.9 | CFM | 3520 | 3395 | 3270 | 3035 | *2800* | | | | | | |
| | RPM | 948 | 931 | 914 | 890.5 | *867* | | | | | | |
| | kW | 1.94 | 1.781 | 1.622 | 1.503 | *1.38* | | | | | | |
| 1.0 | CFM | 3270 | 3125 | 2980 | | | | | | | | |
| | RPM | 951 | 933.5 | 916 | | | | | | | | |
| | kW | 1.82 | 1.6485 | 1.477 | | | | | | | | |
| 1.1 | CFM | 3080 | 3030 | | | | | | | | | |
| | RPM | 954 | 935 | | | | | | | | | |
| | kW | 1.73 | 1.6035 | | | | | | | | | |

**LOW SPEED OPERATION - FOR REFERENCE ONLY**

| EXTERNAL UNIT STATIC (IN WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 0.5 TURN OPEN | 1 TURN OPEN | 1.5 TURNS OPEN | 2 TURNS OPEN | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN* | 4 TURNS OPEN | 4.5 TURNS OPEN | 5 TURNS OPEN |
| 0.1 | CFM | 2920 | 2850 | 2780 | 2695 | 2610 | 2520 | 2430 | 2350 | 2270 | 2180 | 2090 |
| | RPM | 634 | 623 | 611 | 596 | 580 | 566 | 552 | 538 | 524 | 507 | 490 |
| | kW | 0.87 | 0.83 | 0.78 | 0.76 | 0.73 | 0.69 | 0.64 | 0.58 | 0.51 | 0.49 | 0.47 |
| 0.2 | CFM | 2700 | 2610 | 2520 | 2440 | 2360 | 2275 | 2190 | 2105 | 2020 | 1930 | 1840 |
| | RPM | 635 | 624 | 612 | 597 | 582 | 568 | 553 | 539 | 525 | 509 | 492 |
| | kW | 0.83 | 0.76 | 0.70 | 0.69 | 0.68 | 0.63 | 0.58 | 0.53 | 0.48 | 0.46 | 0.44 |
| 0.3 | CFM | 2500 | 2360 | 2220 | 2160 | 2100 | 2005 | 1910 | 1845 | 1780 | 1690 | 1600 |
| | RPM | 637 | 626 | 614 | 599 | 584 | 569 | 554 | 540 | 526 | 509 | 492 |
| | kW | 0.78 | 0.73 | 0.68 | 0.65 | 0.62 | 0.57 | 0.52 | 0.49 | 0.46 | 0.45 | 0.43 |
| 0.4 | CFM | 2253 | 2052 | 1850 | 1835 | 1820 | 1700 | 1580 | | | | |
| | RPM | 639 | 627 | 615 | 600 | 585 | 571 | 556 | | | | |
| | kW | 0.71 | 0.68 | 0.64 | 0.59 | 0.55 | 0.51 | 0.47 | | | | |
| 0.5 | CFM | 1910 | | | | | | | | | | |
| | RPM | 640 | | | | | | | | | | |
| | kW | 0.64 | | | | | | | | | | |

**NOTES:**

* Denotes Recommended Sheave Setting.

- Boldface type indicates factory recommended blower operating range.
- Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
- For 208V operation deduct approximately 0.5% from CFM shown.

**FACTORY DRIVE CONSISTS OF:**

15" x 15" FC Blower, 2 HP / 2 Speed Motor, 1VP40 Sheave, BK77 Pulley and B56 Belt

# BLOWER PERFORMANCE DATA

## P7TQ-120C/D/N SERIES

**2 HP, 2 SPEED, HORIZONTAL BLOWER DATA**
Drive Change Required, See Note

**HIGH SPEED OPERATION**

| EXTERNAL UNIT STATIC (IN WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 0.5 TURN OPEN | 1 TURN OPEN | 1.5 TURNS OPEN | 2 TURNS OPEN | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN | 4 TURNS OPEN* | 4.5 TURNS OPEN | 5 TURNS OPEN | 5.5 TURNS OPEN |
| 0.1 | CFM | | | | | | | | | | *3958* | **3810** | **3670** |
| | RPM | | | | | | | | | | *690* | **672** | **651** |
| | kW | | | | | | | | | | *0.91* | **0.90** | **0.90** |
| 0.2 | CFM | | | | | | | | *4025* | **3890** | **3748** | **3605** | **3445** |
| | RPM | | | | | | | | *730* | **708** | **691** | **673** | **652** |
| | kW | | | | | | | | *0.92* | **0.97** | **0.94** | **0.90** | **0.91** |
| 0.3 | CFM | | | | | | | *3985* | **3828** | **3670** | **3525** | **3380** | **3220** |
| | RPM | | | | | | | *752* | **731** | **709** | **692** | **674** | **654** |
| | kW | | | | | | | *0.89* | **0.91** | **0.92** | **0.91** | **0.89** | **0.89** |
| 0.4 | CFM | | | | | | *3923* | **3775** | **3620** | **3465** | **3298** | **3130** | *2940* |
| | RPM | | | | | | *772* | **753** | **732** | **710** | **693** | **676** | *655* |
| | kW | | | | | | *0.90* | **0.88** | **0.90** | **0.93** | **0.92** | **0.90** | *0.90* |
| 0.5 | CFM | | | | *4020* | **3880** | **3725** | **3570** | **3385** | **3200** | **3038** | *2875* | |
| | RPM | | | | *811* | **792** | **774** | **755** | **733** | **711** | **695** | *678* | |
| | kW | | | | *0.94* | **0.93** | **0.90** | **0.88** | **0.91** | **0.94** | **0.92** | *0.90* | |
| 0.6 | CFM | | | *3960* | **3805** | **3650** | **3495** | **3340** | **3113** | *2885* | | | |
| | RPM | | | *830* | **812** | **793** | **775** | **757** | **735** | *713* | | | |
| | kW | | | *0.94* | **0.93** | **0.93** | **0.92** | **0.92** | **0.92** | *0.91* | | | |
| 0.7 | CFM | *4015* | **3888** | **3760** | **3590** | **3420** | **3220** | **3020** | | | | | |
| | RPM | *860* | **846** | **832** | **813** | **794** | **775** | **756** | | | | | |
| | kW | *0.89* | **0.91** | **0.94** | **0.93** | **0.93** | **0.91** | **0.89** | | | | | |
| 0.8 | CFM | **3768** | **3634** | **3500** | **3225** | *2950* | | | | | | | |
| | RPM | **862** | **849** | **836** | **816** | *797* | | | | | | | |
| | kW | **0.88** | **0.91** | **0.94** | **0.93** | *0.93* | | | | | | | |
| 0.9 | CFM | **3520** | **3345** | **3170** | | | | | | | | | |
| | RPM | **864** | **851** | **837** | | | | | | | | | |
| | kW | **0.88** | **0.91** | **0.93** | | | | | | | | | |
| 1.0 | CFM | **3025** | | | | | | | | | | | |
| | RPM | **867.5** | | | | | | | | | | | |
| | kW | **0.879** | | | | | | | | | | | |

**LOW SPEED OPERATION - FOR REFERENCE ONLY**

| EXTERNAL UNIT STATIC (IN WC) | OPERATING @ 230V, 460V, OR 575V | ADJUSTABLE MOTOR SHEAVE SETTING | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | FULLY CLOSED | 0.5 TURN OPEN | 1 TURN OPEN | 1.5 TURNS OPEN | 2 TURNS OPEN | 2.5 TURNS OPEN | 3 TURNS OPEN | 3.5 TURNS OPEN | 4 TURNS OPEN † | 4.5 TURNS OPEN | 5 TURNS OPEN | 5.5 TURNS OPEN |
| 0.1 | CFM | | | | | | **2740** | **2650** | **2540** | **2430** | **2340** | **2250** | **2145** |
| | RPM | | | | | | **519** | **506** | **491** | **475** | **464** | **453** | **437** |
| | kW | | | | | | **0.73** | **0.74** | **0.74** | **0.74** | **0.74** | **0.73** | **0.74** |
| 0.2 | CFM | **2880** | **2815** | **2750** | **2640** | **2530** | **2430** | **2330** | **2195** | **2060** | **1955** | **1850** | **1695** |
| | RPM | **577** | **568** | **559** | **546** | **532** | **520** | **507** | **492** | **476** | **465** | **454** | **439** |
| | kW | **0.71** | **0.72** | **0.73** | **0.72** | **0.72** | **0.72** | **0.73** | **0.73** | **0.74** | **0.74** | **0.74** | **0.75** |
| 0.3 | CFM | **2605** | **2507** | **2409** | **2285** | **2160** | **2000** | **1840** | | | | | |
| | RPM | **578** | **570** | **561** | **547** | **533** | **521** | **508** | | | | | |
| | kW | **0.70** | **0.72** | **0.73** | **0.72** | **0.72** | **0.72** | **0.72** | | | | | |
| 0.4 | CFM | **2070** | **1955** | **1840** | | | | | | | | | |
| | RPM | **580** | **572** | **564** | | | | | | | | | |
| | kW | **0.71** | **0.72** | **0.73** | | | | | | | | | |

**NOTES:**
- Boldface type indicates factory recommended blower operating range.
- Values include losses for 2" standard air filters, unit casing, and dry evaporator coil.
- For 208V operation deduct approximately 0.5% from CFM shown.

**ALTERNATE DRIVE CONSISTS OF:**
15" x 15" FC Blower, 2 HP / 2 Speed Motor
1VP40 Sheave, BK85 Pulley, and B57 Belt.

## P7TQ090C/D/N* Series High Static Drive

| 7.5 TON HIGH STATIC DRIVE - DOWNFLOW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP | | 0.1 | | | 0.2 | | | 0.3 | | | 0.4 | | | 0.5 | | | 0.6 | | | 0.7 | | | 0.8 | | | 0.9 | | | 1.0 | | |
| SPEED TAP | TORQUE VALUE | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW |
| DATA UNAVAILABLE AT TIME OF PRINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 7.5 TON HIGH STATIC DRIVE - HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP | | 0.1 | | | 0.2 | | | 0.3 | | | 0.4 | | | 0.5 | | | 0.6 | | | 0.7 | | | 0.8 | | | 0.9 | | | 1.0 | | |
| SPEED TAP | TORQUE VALUE | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW |
| DATA UNAVAILABLE AT TIME OF PRINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**NOTES:**

1. Factory recommended settings are in bold.
2. Shaded areas are not recommended or approved for proper operation of equipment.
3. 7.5 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK77 Blower Pulley, and B56 Belt. See Accessory offering in Technical Sales Literature.

## P7TQ120C/D/N* Series High Static Drive

| 10 TON HIGH STATIC DRIVE - DOWNFLOW | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP | | 0.1 | | | 0.2 | | | 0.3 | | | 0.4 | | | 0.5 | | | 0.6 | | | 0.7 | | | 0.8 | | | 0.9 | | | 1.0 | | |
| SPEED TAP | TORQUE VALUE | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW |
| DATA UNAVAILABLE AT TIME OF PRINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| 10 TON HIGH STATIC DRIVE - HORIZONTAL | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| ESP | | 0.1 | | | 0.2 | | | 0.3 | | | 0.4 | | | 0.5 | | | 0.6 | | | 0.7 | | | 0.8 | | | 0.9 | | | 1.0 | | |
| SPEED TAP | TORQUE VALUE | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW | CFM | RPM | KW |
| DATA UNAVAILABLE AT TIME OF PRINT | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

**NOTES:**

1. Factory recommended settings are in bold.
2. Shaded areas are not recommended or approved for proper operation of equipment.
3. 10 Ton High Static Drive Consists of: 3 HP ECM Motor and Controller, BK45 Motor Pulley, BK70 Blower Pulley, and B56 Belt. See Accessory offering in Technical Sales Literature.

# EXPANDED RATINGS - COOLING OPERATION

## P7TQ-072 (C/D/N) (Two-Stage Compressor-High Speed / High Speed Blower Operation)

| O.D.T | | | 85°F | | | 95°F | | | 105°F | | | 115°F | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. |
| 2400 | 75 | 62 | 68.6 | 53.4 | 5.83 | 63.2 | 50.5 | 6.20 | 57.5 | 47.7 | 6.78 | 51.5 | 44.9 | 7.55 |
| | | 67 | 76.6 | 42.2 | 5.65 | 71.2 | 39.3 | 6.02 | 65.5 | 36.5 | 6.60 | 59.5 | 33.6 | 7.37 |
| | | 72 | 83.9 | 27.9 | 5.78 | 78.5 | 25.1 | 6.15 | 72.8 | 22.2 | 6.73 | 66.8 | 19.4 | 7.50 |
| | 80 | 62 | 71.0 | 67.3 | 5.59 | 65.4 | 64.4 | 6.05 | 59.5 | 59.5* | 6.70 | 53.2 | 53.2* | 7.56 |
| | | 67 | 79.0 | 56.1 | 5.41 | 73.4 | 53.1 | 5.87 | 67.5 | 50.2 | 6.52 | 61.2 | 47.2 | 7.38 |
| | | 72 | 86.3 | 41.9 | 5.54 | 80.7 | 38.9 | 5.99 | 74.8 | 35.9 | 6.65 | 68.5 | 32.9 | 7.51 |
| 2550 | 75 | 62 | 69.8 | 55.0 | 5.92 | 64.8 | 52.5 | 6.26 | 59.5 | 49.9 | 6.79 | 53.9 | 47.4 | 7.53 |
| | | 67 | 77.8 | 43.8 | 5.74 | 72.8 | 41.2 | 6.08 | 67.5 | 38.7 | 6.61 | 61.9 | 36.1 | 7.35 |
| | | 72 | 85.1 | 29.6 | 5.87 | 80.1 | 27.0 | 6.20 | 74.8 | 24.4 | 6.74 | 69.2 | 21.9 | 7.48 |
| | 80 | 62 | 71.0 | 68.8 | 5.79 | 65.8 | 65.8* | 6.21 | 60.3 | 60.3* | 6.83 | 54.4 | 54.4* | 7.65 |
| | | 67 | 79.0 | 57.5 | 5.61 | **73.0** | **54.8** | **6.13** | 68.3 | 52.2 | 6.65 | 62.4 | 49.5 | 7.47 |
| | | 72 | 86.3 | 43.3 | 5.74 | 81.1 | 40.6 | 6.16 | 75.6 | 37.9 | 6.78 | 69.7 | 35.2 | 7.59 |
| 2700 | 75 | 62 | 70.7 | 55.9 | 5.90 | 66.1 | 53.7 | 6.20 | 61.2 | 51.4 | 6.70 | 56.0 | 49.2 | 7.40 |
| | | 67 | 78.7 | 44.7 | 5.73 | 74.1 | 42.4 | 6.02 | 69.2 | 40.2 | 6.52 | 64.0 | 37.9 | 7.22 |
| | | 72 | 86.0 | 30.5 | 5.85 | 81.4 | 28.2 | 6.15 | 76.5 | 25.9 | 6.65 | 71.3 | 23.7 | 7.35 |
| | 80 | 62 | 70.7 | 69.5 | 5.89 | 65.9 | 65.9* | 6.27 | 60.8 | 60.8* | 6.85 | 55.3 | 55.3* | 7.63 |
| | | 67 | 78.7 | 58.3 | 5.71 | 73.9 | 55.8 | 6.09 | 68.8 | 53.5 | 6.67 | 63.3 | 51.1 | 7.45 |
| | | 72 | 86.0 | 44.0 | 5.84 | 81.2 | 41.6 | 6.22 | 76.1 | 39.2 | 6.80 | 70.6 | 36.8 | 7.50 |

## P7TQ-072 (C/D/N) (Two-Stage Compressor-Low Speed / Low Speed Blower Operation)

| O.D.T | | | 55°F | | | 65°F | | | 75°F | | | 85°F | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. |
| 1550 | 75 | 62 | 62.0 | 39.0 | 2.67 | 62.1 | 39.6 | 2.98 | 60.2 | 39.2 | 3.33 | 56.3 | 37.7 | 3.71 |
| | | 67 | 63.5 | 32.0 | 2.65 | 63.6 | 32.7 | 2.96 | 61.7 | 32.2 | 3.31 | 57.8 | 30.7 | 3.69 |
| | | 72 | 64.3 | 22.3 | 2.65 | 64.3 | 23.0 | 2.96 | 62.4 | 22.5 | 3.31 | 58.6 | 21.0 | 3.69 |
| | 80 | 62 | 60.0 | 48.7 | 2.65 | 59.3 | 48.8 | 2.98 | 56.6 | 47.8 | 3.35 | 51.9 | 45.7 | 3.76 |
| | | 67 | 64.2 | 41.0 | 2.59 | 63.5 | 41.1 | 2.92 | 60.8 | 40.1 | 3.29 | 56.1 | 38.0 | 3.70 |
| | | 72 | 67.7 | 30.6 | 2.55 | 66.9 | 30.7 | 2.88 | 64.2 | 29.7 | 3.25 | 59.6 | 27.6 | 3.66 |
| 1650 | 75 | 62 | 62.6 | 40.9 | 2.70 | 62.7 | 41.5 | 2.99 | 60.8 | 41.0 | 3.32 | 56.9 | 39.4 | 3.70 |
| | | 67 | 64.1 | 33.9 | 2.68 | 64.1 | 34.5 | 2.97 | 62.3 | 34.0 | 3.30 | 58.4 | 32.4 | 3.68 |
| | | 72 | 64.8 | 24.2 | 2.68 | 64.9 | 24.8 | 2.97 | 63.0 | 24.3 | 3.30 | 59.2 | 22.8 | 3.68 |
| | 80 | 62 | 60.5 | 50.6 | 2.67 | 59.8 | 50.6 | 2.99 | 57.2 | 49.6 | 3.35 | 52.5 | 47.5 | 3.75 |
| | | 67 | 64.7 | 42.9 | 2.61 | 64.0 | 42.9 | 2.93 | 61.4 | 41.9 | 3.29 | 56.7 | 39.8 | 3.69 |
| | | 72 | 68.2 | 32.5 | 2.57 | 67.5 | 32.5 | 2.89 | 64.8 | 31.5 | 3.25 | 60.2 | 29.4 | 3.65 |
| 1750 | 75 | 62 | 64.1 | 42.3 | 2.69 | 64.2 | 42.9 | 2.97 | 62.4 | 42.4 | 3.29 | 58.5 | 40.8 | 3.65 |
| | | 67 | 65.6 | 35.3 | 2.67 | 65.7 | 35.9 | 2.95 | 63.9 | 35.4 | 3.27 | 60.0 | 33.8 | 3.63 |
| | | 72 | 66.4 | 25.7 | 2.67 | 66.5 | 26.2 | 2.95 | 64.6 | 25.7 | 3.27 | 60.8 | 24.1 | 3.63 |
| | 80 | 62 | 62.1 | 52.1 | 2.66 | 61.4 | 52.1 | 2.97 | 58.8 | 51.0 | 3.32 | 54.1 | 48.8 | 3.70 |
| | | 67 | 66.3 | 44.3 | 2.60 | 65.6 | 44.3 | 2.91 | 63.0 | 43.3 | 3.26 | 58.3 | 41.1 | 3.64 |
| | | 72 | 69.8 | 33.9 | 2.56 | 69.1 | 33.9 | 2.87 | 66.4 | 32.9 | 3.22 | 61.8 | 30.7 | 3.60 |

## P7TQ-090 (C/D/N) (Two Compressor / High Speed Blower Operation)

| O.D.T | | | 85°F | | | 95°F | | | 105°F | | | 115°F | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. |
| 2950 | 75 | 62 | 90.9 | 67.6 | 7.00 | 82.9 | 65.0 | 7.86 | 74.9 | 61.7 | 8.95 | 66.8 | 57.9 | 10.30 |
| | | 67 | 99.3 | 53.6 | 7.06 | 91.3 | 50.9 | 7.91 | 83.3 | 47.6 | 9.00 | 75.2 | 43.8 | 10.30 |
| | | 72 | 108.0 | 36.2 | 7.08 | 99.8 | 33.5 | 7.94 | 91.7 | 30.3 | 9.03 | 83.7 | 26.4 | 10.40 |
| | 80 | 62 | 91.4 | 83.1 | 6.97 | 83.6 | 80.1 | 7.59 | 75.8 | 75.8* | 8.45 | 67.9 | 67.9* | 9.54 |
| | | 67 | 99.8 | 69.0 | 7.03 | 92.0 | 66.1 | 7.65 | 84.2 | 62.5 | 8.50 | 76.3 | 58.3 | 9.59 |
| | | 72 | 108.0 | 51.7 | 7.05 | 100.0 | 48.7 | 7.67 | 92.6 | 45.1 | 8.53 | 84.8 | 40.9 | 9.62 |
| 3150 | 75 | 62 | 94.7 | 70.3 | 7.03 | 86.4 | 67.5 | 7.93 | 78.2 | 64.1 | 9.07 | 69.9 | 60.1 | 10.40 |
| | | 67 | 103.0 | 56.2 | 7.09 | 94.8 | 53.4 | 7.99 | 86.6 | 50.0 | 9.13 | 78.3 | 46.0 | 10.50 |
| | | 72 | 112.0 | 38.8 | 7.11 | 103.0 | 36.0 | 8.01 | 95.0 | 32.6 | 9.15 | 86.8 | 28.6 | 10.50 |
| | 80 | 62 | 92.7 | 85.2 | 7.13 | 84.7 | 82.1 | 7.80 | 76.6 | 76.6* | 8.70 | 68.6 | 68.6* | 9.84 |
| | | 67 | 101.0 | 71.1 | 7.19 | **93.1** | **68.0** | **7.85** | 85.0 | 64.2 | 8.76 | 77.0 | 59.9 | 9.89 |
| | | 72 | 110.0 | 53.8 | 7.21 | 102.0 | 50.6 | 7.88 | 93.5 | 46.9 | 8.78 | 85.5 | 42.5 | 9.92 |
| 3350 | 75 | 62 | 98.7 | 73.9 | 6.86 | 90.3 | 70.8 | 7.81 | 81.8 | 67.3 | 8.99 | 73.3 | 63.1 | 10.40 |
| | | 67 | 107.0 | 59.8 | 6.92 | 98.6 | 56.8 | 7.87 | 90.2 | 53.2 | 9.05 | 81.7 | 49.0 | 10.50 |
| | | 72 | 116.0 | 42.4 | 6.94 | 107.0 | 39.4 | 7.89 | 98.7 | 35.8 | 9.07 | 90.2 | 31.6 | 10.50 |
| | 80 | 62 | 94.3 | 88.2 | 7.09 | 86.1 | 84.9 | 7.80 | 77.8 | 77.8* | 8.75 | 69.5 | 69.5* | 9.94 |
| | | 67 | 103.0 | 74.1 | 7.15 | 94.5 | 70.8 | 7.86 | 86.2 | 66.9 | 8.81 | 77.9 | 62.4 | 9.99 |
| | | 72 | 111.0 | 56.7 | 7.17 | 103.0 | 53.4 | 7.88 | 94.7 | 49.5 | 8.83 | 86.4 | 45.0 | 10.00 |

# EXPANDED RATINGS - COOLING OPERATION

## P7TQ-090 (C/D/N) (One Compressor / Low Speed Blower Operation)

| O.D.T | | | 55°F | | | 65°F | | | 75°F | | | 85°F | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. |
| 1900 | 75 | 62 | 53.7 | 27.8 | 3.09 | 52.1 | 26.4 | 3.28 | 49.3 | 24.6 | 3.54 | 45.3 | 22.4 | 3.86 |
| | | 67 | 52.7 | 26.9 | 3.08 | 51.1 | 25.5 | 3.27 | 48.3 | 23.6 | 3.53 | 44.4 | 21.5 | 3.85 |
| | | 72 | 55.8 | 20.5 | 3.11 | 54.2 | 19.0 | 3.30 | 51.5 | 17.2 | 3.56 | 47.5 | 15.0 | 3.88 |
| | 80 | 62 | 50.8 | 31.0 | 3.09 | 50.0 | 30.0 | 3.27 | 48.0 | 28.7 | 3.52 | 44.9 | 26.9 | 3.83 |
| | | 67 | 50.6 | 30.8 | 3.10 | 49.8 | 29.9 | 3.28 | 47.8 | 28.5 | 3.53 | 44.7 | 26.8 | 3.84 |
| | | 72 | 54.5 | 25.2 | 3.15 | 53.7 | 24.2 | 3.33 | 51.7 | 22.9 | 3.58 | 48.5 | 21.1 | 3.89 |
| 2000 | 75 | 62 | 54.2 | 28.4 | 3.09 | 52.5 | 26.8 | 3.27 | 49.7 | 24.9 | 3.52 | 45.6 | 22.6 | 3.83 |
| | | 67 | 53.2 | 27.4 | 3.08 | 51.6 | 25.9 | 3.26 | 48.7 | 24.0 | 3.51 | 44.7 | 21.6 | 3.82 |
| | | 72 | 56.4 | 21.0 | 3.11 | 54.7 | 19.5 | 3.29 | 51.9 | 17.5 | 3.54 | 47.9 | 15.2 | 3.84 |
| | 80 | 62 | 51.3 | 31.5 | 3.09 | 50.4 | 30.4 | 3.26 | 48.4 | 29.0 | 3.50 | 45.2 | 27.1 | 3.80 |
| | | 67 | 51.1 | 31.4 | 3.10 | 50.2 | 30.3 | 3.27 | 48.2 | 28.8 | 3.51 | 45.0 | 27.0 | 3.81 |
| | | 72 | 55.0 | 25.7 | 3.15 | 54.2 | 24.6 | 3.32 | 52.1 | 23.2 | 3.56 | 48.9 | 21.3 | 3.86 |
| 2100 | 75 | 62 | 56.2 | 30.2 | 3.21 | 54.5 | 28.5 | 3.38 | 51.6 | 26.5 | 3.61 | 47.5 | 24.1 | 3.91 |
| | | 67 | 55.3 | 29.3 | 3.20 | 53.6 | 27.6 | 3.37 | 50.7 | 25.6 | 3.60 | 46.6 | 23.1 | 3.90 |
| | | 72 | 58.5 | 22.9 | 3.23 | 56.8 | 21.2 | 3.40 | 53.9 | 19.1 | 3.63 | 49.8 | 16.7 | 3.93 |
| | 80 | 62 | 53.3 | 33.4 | 3.21 | 52.4 | 32.2 | 3.37 | 50.3 | 30.6 | 3.59 | 47.0 | 28.6 | 3.88 |
| | | 67 | 53.2 | 33.2 | 3.22 | 52.3 | 32.0 | 3.38 | 50.2 | 30.4 | 3.60 | 46.9 | 28.5 | 3.89 |
| | | 72 | 57.2 | 27.6 | 3.27 | 56.2 | 26.4 | 3.43 | 54.1 | 24.8 | 3.65 | 50.9 | 22.8 | 3.94 |

## P7TQ-120 (C/D/N) (Two Compressor / High Speed Blower Operation)

| O.D.T | | | 85°F | | | 95°F | | | 105°F | | | 115°F | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. |
| 3250 | 75 | 62 | 108.0 | 78.9 | 9.11 | 102.0 | 77.0 | 10.10 | 92.9 | 72.5 | 11.10 | 81.2 | 65.4 | 12.40 |
| | | 67 | 122.0 | 65.0 | 9.57 | 116.0 | 63.0 | 10.50 | 107.0 | 58.5 | 11.60 | 95.2 | 51.5 | 12.80 |
| | | 72 | 138.0 | 50.4 | 9.69 | 131.0 | 48.5 | 10.60 | 122.0 | 44.0 | 11.70 | 111.0 | 36.9 | 13.00 |
| | 80 | 62 | 106.0 | 94.4 | 8.69 | 99.5 | 92.3 | 9.77 | 90.7 | 87.6 | 11.00 | 79.1 | 79.1* | 12.30 |
| | | 67 | 120.0 | 80.4 | 9.15 | 114.0 | 78.3 | 10.20 | 105.0 | 73.6 | 11.40 | 93.2 | 66.4 | 12.80 |
| | | 72 | 135.0 | 65.9 | 9.28 | 129.0 | 63.8 | 10.40 | 120.0 | 59.1 | 11.60 | 109.0 | 51.8 | 12.90 |
| 3450 | 75 | 62 | 110.0 | 81.0 | 8.98 | 104.0 | 79.2 | 9.99 | 95.0 | 74.8 | 11.10 | 83.4 | 67.9 | 12.40 |
| | | 67 | 124.0 | 67.0 | 9.44 | 118.0 | 65.2 | 10.40 | 109.0 | 60.9 | 11.60 | 97.4 | 54.0 | 12.90 |
| | | 72 | 140.0 | 52.5 | 9.56 | 134.0 | 50.7 | 10.60 | 125.0 | 46.3 | 11.70 | 113.0 | 39.4 | 13.00 |
| | 80 | 62 | 108.0 | 95.5 | 8.68 | 102.0 | 93.6 | 9.81 | 93.4 | 89.0 | 11.10 | 81.8 | 81.8* | 12.50 |
| | | 67 | 122.0 | 81.6 | 9.14 | **116.0** | **79.6** | **10.30** | 107.0 | 75.0 | 11.50 | 95.8 | 67.9 | 13.00 |
| | | 72 | 138.0 | 67.0 | 9.26 | 132.0 | 65.1 | 10.40 | 123.0 | 60.5 | 11.70 | 111.0 | 53.4 | 13.10 |
| 3650 | 75 | 62 | 111.0 | 85.5 | 9.02 | 105.0 | 83.8 | 10.10 | 96.2 | 79.6 | 11.30 | 84.6 | 72.9 | 12.60 |
| | | 67 | 125.0 | 71.5 | 9.48 | 119.0 | 69.9 | 10.60 | 110.0 | 65.7 | 11.80 | 98.6 | 58.9 | 13.10 |
| | | 72 | 141.0 | 57.0 | 9.61 | 135.0 | 55.3 | 10.70 | 126.0 | 51.1 | 11.90 | 114.0 | 44.4 | 13.20 |
| | 80 | 62 | 110.0 | 99.1 | 8.83 | 104.0 | 97.3 | 10.00 | 95.0 | 92.9 | 11.40 | 83.5 | 83.5* | 12.80 |
| | | 67 | 124.0 | 85.1 | 9.29 | 118.0 | 83.3 | 10.50 | 109.0 | 78.9 | 11.80 | 97.6 | 72.0 | 13.30 |
| | | 72 | 139.0 | 70.6 | 9.42 | 133.0 | 68.8 | 10.60 | 125.0 | 64.4 | 12.00 | 113.0 | 57.4 | 13.40 |

## P7TQ-120 (C/D/N) (One Compressor / Low Speed Blower Operation)

| O.D.T | | | 55°F | | | 65°F | | | 75°F | | | 85°F | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CFM | E.D.B. | E.W.B. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. | T.C. | S.C. | K.W. |
| 2100 | 75 | 62 | 59.4 | 38.1 | 3.70 | 57.1 | 36.7 | 3.92 | 53.6 | 34.8 | 4.25 | 49.0 | 32.4 | 4.68 |
| | | 67 | 63.8 | 31.6 | 3.89 | 61.4 | 30.2 | 4.11 | 57.9 | 28.3 | 4.44 | 53.3 | 25.9 | 4.87 |
| | | 72 | 71.3 | 26.2 | 4.06 | 68.9 | 24.8 | 4.28 | 65.5 | 22.9 | 4.61 | 60.9 | 20.5 | 5.04 |
| | 80 | 62 | 58.6 | 42.7 | 3.68 | 56.5 | 41.5 | 3.91 | 53.2 | 39.9 | 4.25 | 48.9 | 37.7 | 4.69 |
| | | 67 | 62.9 | 36.2 | 3.87 | 60.8 | 35.0 | 4.10 | 57.6 | 33.4 | 4.44 | 53.2 | 31.2 | 4.88 |
| | | 72 | 70.4 | 30.8 | 4.04 | 68.3 | 29.6 | 4.27 | 65.1 | 27.9 | 4.61 | 60.7 | 25.8 | 5.05 |
| 2200 | 75 | 62 | 62.1 | 40.1 | 3.78 | 59.2 | 38.4 | 3.99 | 55.1 | 36.1 | 4.30 | 49.9 | 33.4 | 4.72 |
| | | 67 | 66.5 | 33.6 | 3.97 | 63.5 | 31.9 | 4.18 | 59.5 | 29.6 | 4.49 | 54.3 | 26.9 | 4.91 |
| | | 72 | 74.0 | 28.2 | 4.14 | 71.0 | 26.4 | 4.35 | 67.0 | 24.2 | 4.66 | 61.8 | 21.5 | 5.08 |
| | 80 | 62 | 61.3 | 44.7 | 3.76 | 58.6 | 43.2 | 3.98 | 54.8 | 41.2 | 4.30 | 49.8 | 38.7 | 4.73 |
| | | 67 | 65.6 | 38.3 | 3.95 | 62.9 | 36.7 | 4.17 | 59.1 | 34.7 | 4.49 | 54.1 | 32.2 | 4.92 |
| | | 72 | 73.1 | 32.8 | 4.12 | 70.4 | 31.3 | 4.34 | 66.6 | 29.2 | 4.66 | 61.6 | 26.7 | 5.09 |
| 2300 | 75 | 62 | 64.3 | 41.5 | 3.79 | 60.8 | 39.4 | 3.98 | 56.1 | 36.8 | 4.28 | 50.3 | 33.7 | 4.68 |
| | | 67 | 68.6 | 35.0 | 3.98 | 65.1 | 32.9 | 4.17 | 60.5 | 30.3 | 4.47 | 54.7 | 27.2 | 4.87 |
| | | 72 | 76.1 | 29.6 | 4.15 | 72.6 | 27.5 | 4.34 | 68.0 | 24.8 | 4.64 | 62.2 | 21.8 | 5.04 |
| | 80 | 62 | 63.4 | 46.1 | 3.77 | 60.2 | 44.2 | 3.97 | 55.7 | 41.8 | 4.28 | 50.2 | 39.0 | 4.69 |
| | | 67 | 67.8 | 39.6 | 3.96 | 64.5 | 37.7 | 4.16 | 60.1 | 35.3 | 4.47 | 54.5 | 32.5 | 4.88 |
| | | | 75.3 | 34.2 | 4.13 | 72.0 | 32.3 | 4.33 | 67.6 | 29.9 | 4.64 | 62.0 | 27.0 | 5.05 |

1) T.C. = Total (Net) Cooling Capacity, S.C. = Sensible Cooling Capacity, kW = Kilowatts
2) Expanded Ratings are based on 230 Volt - 60 Hz operation
3) Expanded Ratings are based on Factory Standard Blower Drive
4) Bolded Values indicate ARI rating point
5) Energy Efficiency Ratio (EER) = T.C. / kW

# ACCESSORIES

| DESCRIPTION | Field SKU |
|---|---|
| 8" Curb | 1011391 |
| 14" Curb | 1011388 |
| 18" Curb | 1011389 |
| 24" Curb | 1011390 |
| Convenience Outlet | 1011383 |
| Manual Outdoor Air Damper | 1011416 |
| Powered Outdoor Air Damper | 1011417 |
| Economizer, Vertical, with Enthalpy Controller | 1011418 |
| Differential Enthalpy Control | 1011701 |
| RA  Mounted CO2 Sensor | 1011410 |
| Wall Mounted CO2 Sensor | 1011411 |
| Smoke Detector | 1011404 |
| Sampling Tubes 2-4ft | 1011405 |
| Sampling Tube 4-8ft | 1011406 |
| Filter Upgrade to MERV 8 | 1011407 |
| Condensate Float Safety Switch | 1011396 |
| Low Ambient Control, 6 Ton | 1011408 |
| Low Ambient Control, 7.5, 10 Ton | 1011409 |
| Low Pressure Switch, 6 Ton | 1011412 |
| Low Pressure Switch, 7.5, 10 Ton | 1011413 |
| Freezestat, 6 Ton | 1011414 |
| Freezestat, 7.5, 10 Ton | 1011415 |
| Mesh Hail Guard Option, 6 Ton | 1011385 |
| Mesh Hail Guard Option, 7.5 Ton | 1011386 |
| Mesh Hail Guard Option, 10 Ton | 1011387 |
| Hooded Hail Guard | 1006379 |
| Disconnect Switch 60 Amp, 240 Volt, Fusible, USA | 1011383 |
| Disconnect Switch 60 Amp, 600 Volt, Fusible, USA | 1011397 |
| Disconnect Switch 60 Amp, 600 Volt, Fusible, Canada | 1011402 |
| BacNet Thermostat | 1011394 |
| LonWorks Thermostat | 1011394 |
| Burglar Bars - Return & Supply | 1011382 |
| High Static Drive, Up to 1" WC (7.5-10 Ton) 208/230 volt | 1011379 |
| High Static Drive, Up to 1" WC (7.5-10 Ton) 460 volt | 1011380 |
| Medium Static Drive, 6 Ton Downflow | 1011993 |
| Medium Static Drive, 6 Ton Horizontal | 667405 |
| H9HK009Q-01, Electric Heat-9kw, 208-230/60/3 | 1011669 |
| H9HK018Q-11, Electric Heat-18kw, 208-230/60/3 | 1011672 |
| H9HK030Q-21, Electric Heat-30kw, 208-230/60/3 | 1011675 |
| H9HK035Q-21, Electric Heat-35kw, 208-230/60/3 | 1011678 |
| H9HK009S-01, Electric Heat-9kw-, 460/60/3 | 1011670 |
| H9HK018S-01, Electric Heat-18kw, 460/60/3 | 1011673 |
| H9HK030S-01, Electric Heat-30kw, 460/60/3 | 1011676 |
| H9HK035S-01, Electric Heat-35kw, 460/60/3 | 1011679 |
| H9HK009N-01, Electric Heat-9kw, 575/60/3 | 1011671 |
| H9HK018N-01, Electric Heat-18kw, 575/60/3 | 1011674 |
| H9HK030N-01, Electric Heat-30kw, 575/60/3 | 1011677 |
| H9HK035N-01, Electric Heat-35kw, 575/60/3 | 1011680 |

| INVENTORIED BASE SKU'S | | |
|---|---|---|
| Mat ID, SKU | Material Description | volts/Hz/phase |
| 1011555 | P7TQ072-C0A000A0001B | 208-230/60/3 |
| 1011572 | P7TQ090-C0A000A0001B | 208-230/60/3 |
| 1011589 | P7TQ120-C0A000A0001B | 208-230/60/3 |
| 1011556 | P7TQ072-D0A000A0001B | 460/60/3 |
| 1011573 | P7TQ090-D0A000A0001B | 460/60/3 |
| 1011590 | P7TQ120-D0A000A0001B | 460/60/3 |

| FACTORY INSTALLED OPTIONS | | |
|---|---|---|
| **UNPOWERED CONVENIENCE OUTLET** | | |
| Mat ID, SKU | Material Description | volts/Hz/phase |
| 1011568 | P7TQ072-C0A000A1001B | 208-230/60/3 |
| 1011585 | P7TQ090-C0A000A1001B | 208-230/60/3 |
| 1011602 | P7TQ120-C0A000A1001B | 208-230/60/3 |
| 1011569 | P7TQ072-D0A000A1001B | 460/60/3 |
| 1011586 | P7TQ090-D0A000A1001B | 460/60/3 |
| 1011603 | P7TQ120-D0A000A1001B | 460/60/3 |

| DISCONNECT AND OUTLET | | |
|---|---|---|
| Mat ID, SKU | Material Description | volts/Hz/phase |
| 1011566 | P7TQ072-C0A000A3001B | 208-230/60/3 |
| 1011583 | P7TQ090-C0A000A3001B | 208-230/60/3 |
| 1011600 | P7TQ120-C0A000A3001B | 208-230/60/3 |
| 1011567 | P7TQ072-D0A000A3001B | 460/60/3 |
| 1011584 | P7TQ090-D0A000A3001B | 460/60/3 |
| 1011601 | P7TQ120-D0A000A3001B | 460/60/3 |

| COATED CONDENSER COIL | | |
|---|---|---|
| Mat ID, SKU | Material Description | volts/Hz/phase |
| 1011570 | P7TQ072-C0A002A0001B | 208-230/60/3 |
| 1011587 | P7TQ090-C0A002A0001B | 208-230/60/3 |
| 1011604 | P7TQ120-C0A002A0001B | 208-230/60/3 |
| 1011571 | P7TQ072-D0A002A0001B | 460/60/3 |
| 1011588 | P7TQ090-D0A002A0001B | 460/60/3 |
| 1011605 | P7TQ120-D0A002A0001B | 460/60/3 |

| BUILD TO ORDER | | |
|---|---|---|
| Mat ID, SKU | Material Description | volts/Hz/phase |
| 1011557 | P7TQ072-N0A000A0001B | 575/60/3 |
| 1011574 | P7TQ090-N0A000A0001B | 575/60/3 |
| 1011591 | P7TQ120-N0A000A0001B | 575/60/3 |

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