ALLIED Commercial

# TG
## ROOFTOP UNITS
## 60 HZ

ENGINEERING DATA

Bulletin No. TGA-036-048-060-072 (04/06)


ISO 9001 REGISTERED QUALITY SYSTEMS

ENERGY STAR

**3 to 6 Tons**
**Net Cooling Capacity - 36,000 to 72,000 Btuh**
**Gas Input Heat Capacity - 65,000 to 150,000 Btuh**

## MODEL NUMBER IDENTIFICATION

**T G A 060 S 2 B S 1 Y**

**Brand/Family**
T = T Product Line

**Unit Type**
G = Packaged Gas Heat w/ Electric Cooling

**Major Design Sequence**
A = 1st Generation
B = 2nd Generation

**Nominal Cooling Capacity - Tons**
036 = 3 Tons
048 = 4 Tons
060 = 5 Tons
072 = 6 Tons

**Cooling Efficiency**
B = Basic Efficiency
S = Standard Efficiency

**Refrigerant Type**
2 = R-22

**Blower Type**
D = Direct Drive
B = Belt Drive

**Heating Type**
S = Standard Gas Heat, 1 stage
M = Medium Gas Heat, 1 stage
H = High Gas Heat, 2 Stage
T = High Gas Heat, 1 Stage
W = Standard Gas Heat, 1 Stage, Low $NO_x$
Y = Medium Gas Heat, 1 Stage, Low $NO_x$
X = High Gas Heat, 2 Stage, Low $NO_x$
Z = High Gas Heat, 1 Stage, Low $NO_x$

**Minor Design Sequence**
1 = 1st Revision
2 = 2nd Revision
3 = 3rd Revision

**Voltage**
P = 208/230V-1 phase-60hz
Y = 208/230V-3 phase-60hz
G = 460V-3 phase-60hz
J = 575V-3 phase-60hz

## CONTENTS



## FEATURES AND BENEFITS

### APPROVALS

ETL and CSA listed.

Efficiency rating verified by GAMA (US) and CSA certified (Canada).

Components bonded for grounding to meet safety standards for servicing required by UL, ULC and National and Canadian Electrical Codes.

3 thru 5 ton models are certified in accordance with the USE certification program, which is based on ARI Standard 210/240-2005.

6 ton models are certified in accordance with the ULE certification program, which is based on ARI Standard 340/360-2004.

Standard efficiency models are ASHRAE 90.1 compliant.

ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment. Standard efficiency models are ENERGY STAR® certified.

ISO 9001 Registered Manufacturing Quality System.

### CABINET

**1 Construction**

Heavy-gauge steel panels and full perimeter heavy-gauge galvanized steel base rail provides structural integrity for transportation, handling, and installation.

Base rails have rigging holes. Three sides of the base rail have fork slots.

Raised edges around duct and power entry openings in the bottom of the unit provide additional protection against water entering the building.

**Air-Flow Choice**

Units are shipped in down-flow (vertical) configuration, can be field converted to horizontal air flow configuration without the need of a kit.

**2 Power/Gas Entry**

Electrical and gas lines can be brought through the unit base or through horizontal access knock-outs.

Optional Bottom Gas Entry Kit is available.

**3 Exterior Panels**

Constructed of heavy-gauge, galvanized steel with a two-layer enamel paint finish.

**4 Insulation**

All panels adjacent to conditioned air are fully insulated with non-hygroscopic fiberglass insulation.

Unit base is fully insulated. The insulation also serves as an air seal to the roof curb, eliminating the need to add a seal during installation.

**Access Panels**

Access panels are provided for the economizer/filter section, heating/blower section, and the compressor/controls section.

### OPTIONS/ACCESSORIES

**Factory Installed**

**Corrosion Protection**

A completely flexible immersed coating with an electrodeposited dry film process. (AST ElectroFin E-Coat) Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing, ASTM 1153 Standard Specification for Methyl Isobutyl Ketone.

**5 Hinged Access Panels**

Large access panels are hinged and have quarter-turn, latching handles for quick and easy access to maintenance areas (economizer / filter, compressor / controls, heating / blower).

**Field Installed**

**Coil Guards**

Painted, galvanized steel wire guards to protect outdoor coil. Not used with Hail Guards.

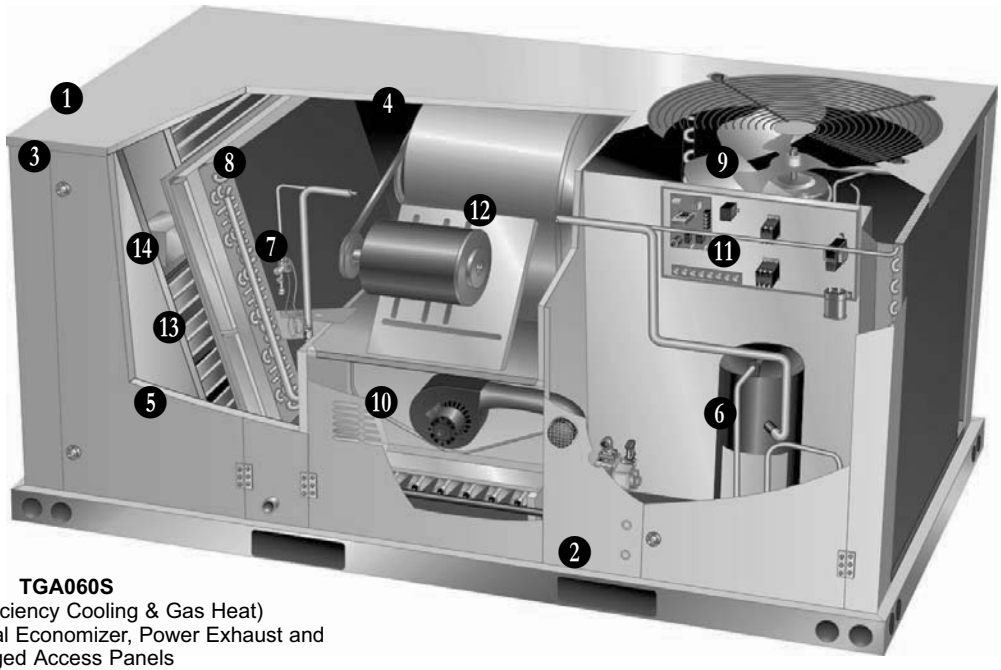
**Hail Guards**

Constructed of heavy gauge steel, painted to match cabinet, helps protect outdoor coils from hail damage. Not used with Coil Guards.

**Bottom Gas Entry Kit**

Field installed piping kit to facilitate bottom gas entry.

## FEATURES AND BENEFITS




**TGA060S**
(Standard Efficiency Cooling & Gas Heat)
Shown With Optional Economizer, Power Exhaust and Hinged Access Panels

### COOLING SYSTEM

Designed to maximize sensible and latent cooling performance at design conditions.

Two efficiency levels provide design flexibility.

System can operate from 30°F to 125°F without any additional controls.

**6 Compressor**

Resiliently mounted on rubber grommets for quiet operation.

Reciprocating compressor on 036B models.

Copeland Scroll™ compressors 036S, 048, 060 and 072 models for high performance, reliability and quiet operation.

**7 Thermal Expansion Valve**

Assures optimal performance throughout the application range.

Removable element head.

**Filter/Drier**

High capacity filter/drier protects the system from dirt and moisture.

**Freezestat**

Protects the evaporator coil from damaging ice build-up due to conditions such as low/no air flow, or low refrigerant charge.

**8 Coil Construction**

Copper tube construction, enhanced rippled-edge aluminum fins, flared shoulder tubing connections, silver soldered construction for improved heat transfer. Factory leak tested.

**Evaporator Coil**

Cross row circuiting with rifled copper tubing optimizes both sensible and latent cooling capacity.

**Condenser Coil**

Two independent formed coils allow separation for cleaning.

**Condensate Drain Pan**

Plastic pan, sloped to meet drainage requirements of ASHRAE 62.1.

Side or bottom drain connections. Reversible to allow connection at back of unit.

**9 Outdoor Coil Fan Motor**

Thermal overload protected, totally enclosed, permanently lubricated sleeve (-036 and -048 models) or ball bearings (-060 and -072 models), shaft up, wire basket mount.

**Outdoor Coil Fan**

PVC coated fan guard furnished.

### REQUIRED SELECTIONS

**Cooling Capacity**

Specify nominal cooling capacity of the unit.

**Cooling Efficiency**

Specify either standard or basic efficiency.

### OPTIONS/ACCESSORIES

**Field Installed**

**Condensate Drain Trap**

Field installed only.

Available in copper or PVC.

**Compressor Crankcase Heater**

Protects against refrigerant migration that can occur during low ambient operation.

**High Pressure Switch**

Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation.

**Low Ambient Kit**

Cycles the outdoor fan while allowing compressor operation in the cooling cycle. This intermittent fan operation allows the system to operate without icing the evaporator coil and losing capacity. Designed for use in ambient temperatures no lower than 0°F. A crankcase heater must be installed on the compressor.

## FEATURES AND BENEFITS

### HEATING SYSTEM

⑩ Aluminized steel inshot burners, direct spark ignition, electronic flame sensor, combustion air inducer, redundant automatic single or dual stage gas valve with manual shut-off.

**Heat Exchanger**

Tubular construction, aluminized steel, life cycle tested.

Stainless Steel Heat Exchanger is required if mixed air temperature is below 45°F.

⑪ **Electronic Pilot Ignition**

Solid-state electronic spark igniter provides positive direct ignition of burners on each operating cycle. The system permits main gas valve to stay open only when the burners are proven to be lit. Should a loss of flame occur, the gas valve closes, shutting off the gas to the burners. Ignition module has LED to indicate status and aid in troubleshooting.

Watchguard circuit on module automatically resets ignition controls after one hour of continuous thermostat demand after unit lockout, eliminating nuisance service calls. Ignition control is factory installed in the controls section.

**Limit Controls**

Factory installed, redundant limit controls with fixed temperature setting. Heat limit controls protect heat exchanger and other components from overheating.

**Safety Switches**

Flame roll-out switch, flame sensor and combustion air inducer proving switch protect system operation.

**Low $NO_x$ Models**

All models are available in low $NO_x$ versions.

#### REQUIRED SELECTIONS

**Gas Input Choice - Order one:**

65,000 Btuh Standard Gas Heat, 1 Stage

105,000 Btuh Medium Gas Heat, 1 Stage

105,000/150,000 Btuh High Gas Heat, 2 Stage

150,000 Btuh High Gas Heat, 1 Stage

**Standard or Low NOx**

Specify standard emissions or Low NOx option.

#### OPTIONS/ACCESSORIES

**Factory Installed**

**Stainless Steel Heat Exchanger**

Required if mixed air temperature is below 45°F.

**Field Installed**

**Combustion Air Intake Extensions**

Recommended for use with existing flue extension kits in areas where high snow areas can block intake air.

**Low Temperature Vestibule Heater**

Electric heater automatically controls minimum temperature in gas burner compartment when temperature is below -40°F. C.S.A. certified to allow operation of unit down to -60°F.

**LPG/Propane Kits**

Conversion kit to field change over units from Natural Gas to LPG/Propane.

**Vertical Vent Extension Kit**

Use to exhaust flue gases vertically above unit. Required when unit vent is too close to fresh air intakes per building codes. The vent kit also prevents ice formation on intake louvers.

### CONTROLS

#### UNIT CONTROL

All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection.

**Heat/Cool Staging** - Capable of up to 2 heat / 2 cool staging with a third party DDC control system or thermostat.

**Low Voltage Terminal Block** - Provides screw terminal connections for thermostat or controller wiring.

**Night Setback Mode** - Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only.

#### OPTIONS / ACCESSORIES

**Field Installed**

**Dirty Filter Switch**

Senses static pressure increase indicating dirty filter condition.

**Smoke Detector**

Photoelectric type, installed in return air section

**Thermostats**

Control system and thermostat options. Aftermarket unit controller options.

### ⑫ BLOWER

A wide selection of supply air blower options are available to meet a variety of air flow requirements.

**Motor**

Overload protected, equipped with ball bearings (belt drive) or sleeve bearings (direct drive).

Direct drive motors are offered on 036, 048 and 060 models.

Belt drive motors are offered on all models and are available in several different sizes to maximize air performance.

**Supply Air Blower**

Forward curved blades, blower wheel is statically and dynamically balanced.

All belt drive motors have adjustable pulley for speed change.

**Ordering Information**

Specify direct drive or belt drive motor

For belt drive, specify motor horsepower and drive kit number when base unit is ordered.

#### REQUIRED SELECTIONS

**Supply Air Blower**

Order one, belt drive or direct drive (See Blower Data Table for specifications).

Order one drive kit, belt drive only, see Drive Kit Specifications Table.

### AIR FILTERS

Disposable 2 inch MERV 4 filters (Minimum Efficiency Reporting Value based on ASHRAE 52.2).

### ELECTRICAL

#### REQUIRED SELECTIONS

**Voltage Choice**

Specify when ordering base unit.

#### OPTIONS/ACCESSORIES

**Field Installed**

**GFI Service Outlets (2)**

115v ground fault circuit interrupter (GFCI) type.

## FEATURES AND BENEFITS

### SERVICEABILITY

Designed to streamline general maintenance and decrease troubleshooting time.

**Marked & Color-Coded Wiring**
All electrical wiring is color-coded and marked to identify which components it is connecting.

**Electrical Plugs**
Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation.

**Blower Access**
Supply air blower parts are located near the access door for easy servicing and adjustment.

**Thermal Expansion Valves**
Thermal expansion valves are located near the perimeter of the unit for easier access.
Removable element head allows change out of element and bulb without removing the TXV.

**Coil Cleaning**
Independently formed condenser coils allow separation for easier cleaning.

**Compressor Compartment**
Compressor is located near the perimeter of the unit for easier access. Compressor is isolated from the condenser air flow allowing system operation checks to be done without changing the air flow across the outdoor coils.

### WARRANTY

Limited ten years aluminized heat exchanger, limited fifteen years optional stainless steel heat exchanger.
Limited five years on compressors.
Limited one year all other covered components.

## OPTIONS / ACCESSORIES

### ECONOMIZER/OUTDOOR AIR/EXHAUST OPTIONS

**Factory or Field Installed**

**⓭ Economizer, Down-Flow**
Parallel gear-driven action return air and outdoor air dampers, plug-in connections to unit, nylon bearings, neoprene seals, 24-volt, fully-modulating, spring return motor, adjustable minimum damper position. Economizer includes barometric relief dampers.
Barometric Relief Dampers allow relief of excess air, aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished.
Outdoor Air Hoods are included when economizer is factory installed and must be ordered extra when economizer is field installed.
Choice of single (factory installed) or differential (optional) enthalpy economizer control is available.
Horizontal conversion kit available for field installation.

**Single Enthalpy Control**
Outdoor air enthalpy sensor enables economizer if the outdoor enthalpy is less than the setpoint of the board. Furnished with Economizer.

**Field Installed**

**Outdoor Air Damper - Manual**
Two sliding dampers provide 0 to 35% outdoor air, installs internal to unit. Includes Outdoor Air Hood.

**Outdoor Air Damper Motorized Kit**
Used to convert Manual Outdoor Air Dampers to motorized dampers. Kit includes linked mechanical dampers and spring return damper motor with plug-in connection.

**Differential Enthalpy Control**
An optional, return air, solid-state enthalpy sensor can be ordered extra for field installation. Allows the economizer control board to select between outdoor air or return air, whichever has lower enthalpy. Field installed.

**Horizontal Conversion Kit**
Insulated panel covers the bottom return air opening on the unit base to convert down-flow economizer to horizontal air flow.

**Indoor Air Quality ($CO_2$) Sensor**
Monitors $CO_2$ levels adjusts economizer dampers as needed for Demand Control Ventilation.

**Outdoor Air Hoods**
Must be ordered extra for field installed Economizer.
Includes outdoor air and barometric relief damper hoods.

**⓮ Power Exhaust Fan**
Installs internal to unit for down-flow applications only with economizer option. Provides exhaust air pressure relief. Interlocked to run when supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected. Requires Economizer and Outdoor Air Hood (ordered separately). Fan is 16 in. diameter with 4 fan blades (T1PWRE10A) or 20 in. diameter with 5 blades (T1PWRE10N). Both include a 3/4 hp motor.

### CEILING DIFFUSERS

**Ceiling Diffusers (Flush and Step-Down)**
Aluminum grilles, large center grille, insulated diffuser box with flanges, hanging rings furnished, interior transition (even air flow), internally sealed (prevents recirculation), adapts to T-bar ceiling grids or plaster ceilings.

**Transitions (Supply and Return)**
Used with diffusers, installs in roof curb, galvanized steel construction, flanges furnished for duct connection to diffusers, fully insulated.

### ROOF CURB

**Roof Curb, Down-Flow**
Nailer strip furnished, mates to unit, US National Roofing Contractors Approved, shipped knocked down. Available in 8, 14, 18, and 24 inch heights.
Standard roof curb corners fasten together with furnished hardware.
Hinged curb corners fasten together with furnished hinge pins.
Cliplock curbs use interlocking tabs to fasten together. No tools required.

## OPTIONS / ACCESSORIES

| Item | | 036 | 048 | 060 | 072 |
|---|---|---|---|---|---|
| **COOLING SYSTEM** | | | | | |
| Condensate Drain Trap | PVC - LTACDKP03/07 | x | x | x | x |
| | Copper - LTACDKC03/07 | x | x | x | x |
| Corrosion Protection | | ○ | ○ | ○ | ○ |
| Compressor Crankcase Heater | 208/230V - T1CCHT01A-1Y | [1] x | | | |
| | 460V - T1CCHT01A-1G | [1] x | | | |
| | 208/230V - T1CCHT01AN1P | x | x | x | x |
| | 460V - T1CCHT01AN1G | x | x | x | x |
| | 575V - T1CCHT01AN1J | x | x | x | x |
| Low Ambient Kit | T1SNSR12AN1 | x | x | x | x |
| Efficiency | Standard | ○ | ○ | ○ | ○ |
| | Basic | ○ | ○ | ○ | |
| High Pressure Switch | T1SNSR11AN1 | x | x | x | x |
| Refrigerant Type | R-22 | ○ | ○ | ○ | ○ |
| **HEATING SYSTEM** | | | | | |
| Bottom Gas Piping Kit | T1GPKT01AN1 | x | x | x | x |
| Low Temperature Vestibule Heater | 208/230V - T1CWKT01AN1Y | x | x | x | x |
| | 460V - T1CWKT01AN1G | x | x | x | x |
| | 575V - T1CWKT01AN1J | x | x | x | x |
| Combustion Air Intake Extensions | T1EXTN10AN1 | x | x | x | x |
| Gas Heat Input | Standard One-Stage - 65 kBtuh input | ○ | ○ | ○ | ○ |
| | Medium One-Stage - 105 kBtuh input | ○ | ○ | ○ | ○ |
| | High Two-Stage - 105/150 kBtuh input | | ○ | ○ | ○ |
| | High One-Stage - 150 kBtuh input | | ○ | ○ | ○ |
| LPG/Propane Conversion Kits | For one-stage models - T1PROP10AN1 | x | x | x | x |
| | For two-stage models - T1PROP20AN1 | x | x | x | x |
| Stainless Steel Heat Exchanger | | ○ | ○ | ○ | ○ |
| Vertical Vent Extension | T1EXTN20AN1 | x | x | x | x |
| **BLOWER - SUPPLY AIR** | | | | | |
| Motors | Direct Drive - 0.5 hp | ○ | ○ | | |
| | Direct Drive - 0.75 hp | | | ○ | |
| | Belt Drive - 1.5 hp Standard Efficiency | ○ | ○ | ○ | ○ |
| | Belt Drive - [2] 2 hp Standard Efficiency | ○ | ○ | ○ | ○ |
| Drive Kits See Blower Data Tables for selection | Drive Kit # 1 - T1DRKT001-1 - 673 - 1010 rpm | ⊗ | | | |
| | Drive Kit # 2 - T1DRKT002-1 - 745 - 1117 rpm | | ⊗ | | |
| | Drive Kit # 3 - T1DRKT003-1 - 833 - 1250 rpm | | | ⊗ | |
| | Drive Kit # 4 - T1DRKT004-1 - 968 - 1340 rpm | | | | ⊗ |
| | Drive Kit # 5 - T1DRKT005-1 - 897 - 1346 rpm | ⊗ | | | |
| | Drive Kit # 6 - T1DRKT006-1 - 1071 - 1429 rpm | | ⊗ | | |
| | Drive Kit # 7 - T1DRKT007-1 - 1212 - 1548 rpm | | | ⊗ | |
| | Drive Kit # 8 - T1DRKT008-1 - 1193 - 1591 rpm | | | | ⊗ |
| **CABINET** | | | | | |
| Coil Guards | T1GARD20A-1 | x | x | x | |
| | T1GARD20N-1 | | | | x |
| Hail Guards | T1GARD10A-1 | x | x | x | |
| | T1GARD10N-1 | | | | x |
| Hinged Access Panels | | ○ | ○ | ○ | ○ |

**NOTE -** The model numbers that appear here are for ordering field installed accessories only.

⊗ - Field Installed or Configure to Order (factory installed)

○ - Configure to Order (Factory Installed)

**X** - Field Installed.

[1] 036B models only

[2] 2 hp blower motor is not available for 208/230V-1ph applications.

## OPTIONS / ACCESSORIES

| Item | | 036 | 048 | 060 | 072 |
|---|---|---|---|---|---|
| **CONTROLS** | | | | | |
| Dirty Filter Switch | COSWCH00AE-1 | x | x | x | x |
| Smoke Detector - Return | T1SNSR41AN1 | x | x | x | x |
| **Indoor Air Quality ($Co_2$) Sensors** | | | | | |
| Sensor - white case $CO_2$ display | LTAIAQSWDK03/36 | x | x | x | x |
| Sensor - duct-mount, black case, no display | LTAIAQSND03/36 | x | x | x | x |
| $CO_2$ Sensor Duct Mounting Kit | LTIAQSDMK03/36 | x | x | x | x |
| **ELECTRICAL** | | | | | |
| Disconnect | See Electric Data Tables for usage | x | x | x | x |
| Voltage | 208/230V - 1 phase | ○ | ○ | ○ | |
| 60 hz | 208/230V - 3 phase | ○ | ○ | ○ | ○ |
| | 460V - 3 phase | ○ | ○ | ○ | ○ |
| | 575V - 3 phase | ○ | ○ | ○ | ○ |
| GFI Service Outlets | LTAGFIK10/15 | x | x | x | x |
| **ECONOMIZER** | | | | | |
| **Economizer** | | | | | |
| Economizer, Single Enthalpy Control | T1ECON30A-1 | ⊗ | ⊗ | ⊗ | |
| Order Outdoor Air Hood Separately | T1ECON30N-1 | | | | ⊗ |
| Horizontal Economizer Conversion Kit | T1HECK00AN1 | x | x | x | x |
| Outdoor Air Hood | T1HOOD30A-1 | ⊗ | ⊗ | ⊗ | |
| | T1HOOD30N-1 | | | | ⊗ |
| **Economizer Controls** | | | | | |
| Differential Enthalpy Sensor | T1SNSR60AN1 | x | x | x | x |
| **OUTDOOR AIR** | | | | | |
| **Outdoor Air Dampers** | | | | | |
| Damper Section - Manual, Includes Outdoor Air Hood | T1DAMP11A-1 | x | x | x | |
| | T1DAMP11N-1 | | | | x |
| Damper Motorized Kit - Order Manual Outdoor Air Damper Separately | T1DAMP21AN1 | x | x | x | x |
| **Power Exhaust** | | | | | |
| Standard Static | 208/230V - T1PWRE10A-1P | x | x | x | |
| | 460V - T1PWRE10A-1G | x | x | x | |
| | 575V - T1PWRE10A-1J | x | x | x | |
| | 208/230V - T1PWRE10N-1P | | | | x |
| | 460V - T1PWRE10N-1G | | | | x |
| | 575V - T1PWRE10N-1J | | | | x |
| **ROOF CURBS - DOWN-FLOW** | | | | | |
| **Cliplock** | | | | | |
| 8 in. height | T1CURB23AN1 | x | x | x | x |
| | C1CURB40AN1 | x | x | x | x |
| 14 in. height | T1CURB20AN1 | x | x | x | x |
| | C1CURB41AN1 | x | x | x | x |
| 18 in. height | T1CURB21AN1 | x | x | x | x |
| | C1CURB42AN1 | x | x | x | x |
| 24 in. height | T1CURB22AN1 | x | x | x | x |
| | C1CURB43AN1 | x | x | x | x |
| **Standard** | | | | | |
| 14 in. height | T1CURB10AN1 | x | x | x | x |
| **Hinged** | | | | | |
| 8 in. height | T1CURB30AN1 | x | x | x | x |
| 18 in. height | T1CURB32AN1 | x | x | x | x |
| 24 in. height | T1CURB33AN1 | x | x | x | x |
| **CEILING DIFFUSERS** | | | | | |
| Step-Down - Order one | RTD9-65 | x | x | x | |
| | RTD11-95 | | | | x |
| Flush - Order one | FD9-65 | x | x | x | |
| | FD11-95 | | | | x |
| Transitions (Supply and Return) - Order one | T1TRAN10AN1 | x | x | x | |
| | T1TRAN20N-1 | | | | x |

**NOTE -** The model numbers that appear here are for ordering field installed accessories only.

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○ - Configure to Order (Factory Installed)

**X** - Field Installed.

## SPECIFICATIONS - DIRECT DRIVE BLOWER — 3 - 5 TON

| General Data | | Nominal Tonnage | 3 Ton | | 4 Ton | | 5 Ton | |
|---|---|---|---|---|---|---|---|---|
| | | Model No. | TGA036B2D | TGA036S2D | TGA048B2D | TGA048S2D | TGA060B2D | TGA060S2D |
| | | Efficiency Type | Basic | Standard | Basic | Standard | Basic | Standard |
| Cooling Performance | | Gross Cooling Capacity - Btuh | 37,400 | 38,000 | 49,500 | 50,000 | 59,800 | 62,000 |
| | | [1] Net Cooling Capacity - Btuh | 36,000 | 36,600 | 47,000 | 48,000 | 57,000 | 59,000 |
| | | ARI Rated Air Flow - cfm | 1,200 | 1,200 | 1,750 | 1,600 | 1,850 | 1,800 |
| | | [2] Sound Rating Number (dB) | 81 | 75 | 75 | 75 | 82 | 82 |
| | | Total Unit Power - kW | 3.6 | 3.2 | 5.0 | 4.4 | 6.7 | 5.4 |
| | | [1] SEER (Btuh/Watt) | 11.0 | 13.0 | 10.0 | 13.0 | 10.0 | 13.0 |
| | | [1] EER (Btuh/Watt) | 10.0 | 11.6 | 9.4 | 11.0 | 8.5 | 11.0 |
| Refrigerant | | Type | R-22 | R-22 | R-22 | R-22 | R-22 | R-22 |
| | | Charge Furnished | 6 lbs. 0 oz. | 7 lbs. 12 oz. | 6 lbs. 12 oz. | 9 lbs. 12 oz. | 6 lbs. 4 oz. | 11 lbs. 12 oz. |
| Gas Heating Options - See Page 10 | | | Standard or Medium | | Standard, Medium, or High (1 or 2 stage) | | | |
| Compressor Type (one per unit) | | | Reciprocating | Scroll | Scroll | Scroll | Scroll | Scroll |
| Outdoor Coil | | Net face area - sq. ft. | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 | 15.6 |
| | | Tube diameter - in. | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | Number of rows | 1.0 | 1.5 | 1.0 | 2.0 | 1.0 | 2.0 |
| | | Fins per inch | 20 | 20 | 20 | 20 | 20 | 20 |
| Outdoor Coil Fan | | Motor HP | 1/4 | 1/4 | 1/4 | 1/4 | 1/3 | 1/3 |
| | | Motor rpm | 825 | 825 | 825 | 825 | 1075 | 1075 |
| | | Total motor watts | 250 | 250 | 250 | 250 | 370 | 370 |
| | | Diameter - in. / No. of blades | 24 - 3 | 24 - 3 | 24 - 3 | 24 - 3 | 24 - 3 | 24 - 3 |
| | | Total air volume - cfm | 3,700 | 3,500 | 3,700 | 3,300 | 4,300 | 4,300 |
| Indoor Coil | | Net face area - sq. ft. | 7.78 | 7.78 | 7.78 | 7.78 | 7.78 | 7.78 |
| | | Tube diameter - in. | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 | 3/8 |
| | | Number of rows | 2 | 3 | 2 | 3 | 2 | 4 |
| | | Fins per inch | 14 | 14 | 14 | 14 | 14 | 14 |
| | | Drain Connection (no. and size) - in. | (1) 3/4 npt | (1) 3/4 npt | (1) 3/4 npt | (1) 3/4 npt | (1) 3/4 npt | (1) 3/4 npt |
| | | Expansion device type | Balanced Port Thermostatic Expansion Valve, removeable power head | | | | | |
| Indoor Blower | | Nominal Motor HP | .5 | .5 | .5 | .5 | .75 | .75 |
| | | Wheel nominal diameter x width - in. | 10 x 10 | 10 x 10 | 10 x 10 | 10 x 10 | 11 x 10 | 11 x 10 |
| Filters | | Type | Disposable | | | | | |
| | | Number and size - in. | (4) 16 x 20 x 2 | | | | | |
| Electrical Characteristics - 60 Hz | | | 208/230V & 460V 3 phase | 208/230V 1 phase<br>208/230V, 460V & 575V 3 phase | 208/230V & 460V 3 phase | 208/230V 1 phase<br>208/230V, 460V & 575V 3 phase | 208/230V & 460V 3 phase | 208/230V 1 phase<br>208/230V, 460V & 575V 3 phase |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

[1] Certified in accordance with the USE certification program, which is based on ARI Standard 210/240; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

[2] Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

## SPECIFICATIONS - BELT DRIVE BLOWER — 3 - 4 TON

| General Data | | 3 Ton | | 4 Ton | |
|---|---|---|---|---|---|
| | Model No. | TGA036B2B | TGA036S2B | TGA048B2B | TGA048S2B |
| | Efficiency Type | Basic | Standard | Basic | Standard |
| **Cooling Performance** | Gross Cooling Capacity - Btuh | 37,400 | 38,000 | 49,500 | 50,000 |
| | [1] Net Cooling Capacity - Btuh | 36,000 | 36,600 | 47,000 | 48,000 |
| | ARI Rated Air Flow - cfm | 1,200 | 1,200 | 1,750 | 1,600 |
| | [2] Sound Rating Number (dB) | 81 | 75 | 75 | 75 |
| | Total Unit Power - kW | 3.6 | 3.2 | 5.0 | 4.4 |
| | [1] SEER (Btuh/Watt) | 11.0 | 13.0 | 10.0 | 13.0 |
| | [1] EER (Btuh/Watt) | 10.0 | 11.6 | 9.4 | 11.0 |
| **Refrigerant** | Type | R-22 | R-22 | R-22 | R-22 |
| | Charge Furnished | 6 lbs. 0 oz. | 7 lbs. 12 oz. | 6 lbs. 12 oz. | 9 lbs. 12 oz. |
| **Gas Heating Options - See Page 10** | | **Standard or Medium** | | **Standard, Medium, or High (1 or 2 stage)** | |
| **Compressor Type (one per unit)** | | Reciprocating | Scroll | Scroll | Scroll |
| **Outdoor Coil** | Net face area - sq. ft. | 15.6 | 15.6 | 15.6 | 15.6 |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 | 3/8 |
| | Number of rows | 1.0 | 1.5 | 1.0 | 2.0 |
| | Fins / inch | 20 | 20 | 20 | 20 |
| **Outdoor Coil Fan** | Motor HP | 1/4 | 1/4 | 1/4 | 1/4 |
| | Motor rpm | 825 | 825 | 825 | 825 |
| | Total motor watts | 250 | 250 | 250 | 250 |
| | Diameter - in. / No. of blades | 24 - 3 | 24 - 3 | 24 - 3 | 24 - 3 |
| | Total air volume - cfm | 3,700 | 3,500 | 3,700 | 3,300 |
| **Indoor Coil** | Net face area - sq. ft. | 7.78 | 7.78 | 7.78 | 7.78 |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 | 3/8 |
| | Number of rows | 2 | 3 | 2 | 3 |
| | Fins per inch | 14 | 14 | 14 | 14 |
| | Drain Connection (no.and size) - in. | (1) 3/4 NPT | (1) 3/4 NPT | (1) 3/4 NPT | (1) 3/4 NPT |
| | Expansion device type | Balanced Port Thermostatic Expansion Valve, removeable power head | | | |
| **[3] Indoor Blower & Drive Selection** | Nominal Motor HP | 1.5 hp, 2 hp | 1.5 hp, [4] 2 hp | 1.5 hp, 2 hp | 1.5 hp, [4] 2 hp |
| | Maximum Usable Motor HP | 1.72 hp, 2.3 hp | 1.72 hp, 2.3 hp | 1.72 hp, 2.3 hp | 1.72 hp, 2.3 hp |
| | Wheel nominal diameter x width - in. | 10 x 10 | 10 x 10 | 10 x 10 | 10 x 10 |
| | Available Drive Kits | Drive Kit #1 - 673 - 1010 rpm<br>Drive Kit #5 - 897 - 1346 rpm | | Drive Kit #2 - 745 - 1117 rpm<br>Drive Kit #6 - 1071 - 1429 rpm | |
| **Filters** | Type | Disposable | Disposable | Disposable | Disposable |
| | Number and size - in. | (4) 16 x 20 x 2 | (4) 16 x 20 x 2 | (4) 16 x 20 x 2 | (4) 16 x 20 x 2 |
| **Electrical Characteristics - 60 Hz** | | 208/230V & 460V 3 phase | 208/230V 1 phase<br>208/230V, 460V & 575V 3 phase | 208/230V & 460V 3 phase | 208/230V, 1 phase<br>208/230V 460V & 575V 3 phase |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

[1] Certified in accordance with the USE certification program, which is based on ARI Standard 210/240; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

[2] Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

[3] Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

[4] 2 hp blower motor is not available for 208/230V-1ph applications.

## SPECIFICATIONS - BELT DRIVE BLOWER — 5 - 6 TON

| | | 5 Ton | | 6 Ton |
|---|---|---|---|---|
| **General Data** | Nominal Tonnage | | | |
| | Model No. | **TGA060B2B** | **TGA060S2B** | **TGA072S2B** |
| | Efficiency Type | **Basic** | **Standard** | **Standard** |
| **Cooling Performance** | Gross Cooling Capacity - Btuh | 59,800 | 62,000 | 75,000 |
| | Net Cooling Capacity - Btuh | [1] 57,000 | [1] 59,000 | [2] 72,000 |
| | ARI Rated Air Flow - cfm | 1,850 | 2,000 | 2,250 |
| | [3] Sound Rating Number (dB) | 82 | 82 | 82 |
| | Total Unit Power - kW | 6.7 | 5.4 | 7.1 |
| | SEER (Btuh/Watt) | [1] 10.0 | [1] 13.0 | - |
| | EER (Btuh/Watt) | [1] 8.5 | [1] 11.0 | [2] 10.1 |
| **Refrigerant** | Type | R-22 | R-22 | R-22 |
| | Charge Furnished | 6 lbs. 4 oz. | 11 lbs. 12 oz. | 11 lbs. 4 oz. |
| **Gas Heating Options - See Page 10** | | **Standard, Medium, or High (1 or 2 stage)** | | |
| **Compressor Type (one per unit)** | | Scroll | Scroll | Scroll |
| **Outdoor Coil** | Net face area - sq. ft. | 15.6 | 15.6 | 19.27 |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 |
| | Number of rows | 1.0 | 2.0 | 1.4 |
| | Fins / inch | 20 | 20 | 20 |
| **Outdoor Coil Fan** | Motor HP | 1/3 | 1/3 | 1/3 |
| | Motor rpm | 1075 | 1075 | 1075 |
| | Total motor watts | 370 | 370 | 405 |
| | Diameter - in. / No. of blades | 24 - 3 | 24 - 3 | 24 - 3 |
| | Total air volume - cfm | 4,300 | 4,300 | 4,800 |
| **Indoor Coil** | Net face area - sq. ft. | 7.78 | 7.78 | 9.7 |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 |
| | Number of rows | 2 | 4 | 3 |
| | Fins per inch | 14 | 14 | 14 |
| | Drain Connection (no.and size) - in. | (1) 3/4 NPT | (1) 3/4 NPT | (1) 3/4 NPT |
| | Expansion device type | Balanced Port Thermostatic Expansion Valve, removeable power head | | |
| **[4] Indoor Blower & Drive Selection** | Nominal Motor HP | 1.5 hp, 2 hp | 1.5 hp, [5] 2 hp | 1.5 hp, 2 hp |
| | Maximum Usable Motor HP | 1.72 hp, 2.3 hp | 1.72 hp, 2.3 hp | 1.72 hp, 2.3 hp |
| | Wheel nominal diameter x width - in. | 10 x 10 | 10 x 10 | 10 x 10 |
| | Available Drive Kits | Drive Kit #3 - 833 - 1250 rpm<br>Drive Kit #7 - 1212 - 1548 rpm | | Drive Kit #4<br>968 - 1340 rpm<br>Drive Kit #8<br>1193 - 1591 rpm |
| **Filters** | Type | Disposable | Disposable | Disposable |
| | Number and size - in. | (4) 16 x 20 x 2 | (4) 16 x 20 x 2 | (4) 20 x 20 x 2 |
| **Electrical Characteristics - 60 Hz** | | 208/230V & 460V 3 phase | 208/230V 1 phase<br>208/230V, 460V & 575V 3 phase | 208/230V, 460V & 575V 3 phase |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

[1] Certified in accordance with the USE certification program, which is based on ARI Standard 210/240; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

[2] Certified in accordance with the ULE certification program, which is based on ARI Standard 340/360; 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering evaporator air; minimum external duct static pressure.

[3] Sound Rating Number rated in accordance with test conditions included in ARI Standard 270.

[4] Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp output. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

[5] 2 hp blower motor is not available for 208/230V-1ph applications.

## SPECIFICATIONS - GAS HEAT

| **Model No.** | **TGA036, TGA048, TGA060, TGA072** | | **TGA048, TGA060, TGA072** | |
|---|---|---|---|---|
| Heat Input Type | **Standard (1 Stage)** | **Medium (1 Stage)** | **High (1 Stage)** | **High (2 Stage)** |
| Input - Btuh First Stage | 65,000 | 105,000 | 150,000 | 105,000 |
| Second Stage | - - - | - - - | - - - | 150,000 |
| Output - Btuh First Stage | 52,000 | 84000 | 120,000 | 85,500 |
| Second Stage | - - - | - - - | - - - | 120,000 |
| Temperature Rise Range | 20 - 50°F | 30 - 75°F | 40 - 85°F | 40 - 85°F |
| [1] AFUE | 80% | 80% | 80% | 80% |
| Thermal Efficiency | 80% | 80% | 80% | 81.5%/80% |
| Gas Supply Connections | 1/2 in. NPT | | | |
| Recommended Gas Supply Pressure - Natural / LPG | 7 in. w.g. / 11 in. w.g. | | | |

[1] Annual Fuel Utilization Efficiency based on U.S. DOE test procedures and FTC labeling regulations.

## COOLING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 3 TON BASIC EFFICIENCY - COOLING CAPACITY — TGA036B2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 960 | 455 | 35.5 | 10.4 | 2.60 | .68 | .81 | .94 | 33.6 | 9.8 | 2.81 | .70 | .83 | .96 | 31.6 | 9.3 | 3.00 | .71 | .86 | .99 | 29.6 | 8.7 | 3.19 | .73 | .89 | 1.00 |
| | 1200 | 565 | 37.1 | 10.9 | 2.65 | .73 | .88 | 1.00 | 35.1 | 10.3 | 2.86 | .75 | .90 | 1.00 | 33.0 | 9.7 | 3.06 | .77 | .93 | 1.00 | 30.9 | 9.1 | 3.26 | .79 | .96 | 1.00 |
| | 1440 | 680 | 38.3 | 11.2 | 2.68 | .77 | .94 | 1.00 | 36.2 | 10.6 | 2.90 | .80 | .97 | 1.00 | 34.1 | 10.0 | 3.11 | .82 | .99 | 1.00 | 32.2 | 9.4 | 3.32 | .86 | 1.00 | 1.00 |
| 67°F (19°C) | 960 | 455 | 38.1 | 11.2 | 2.67 | .54 | .66 | .77 | 36.0 | 10.6 | 2.89 | .55 | .67 | .80 | 33.9 | 9.9 | 3.10 | .55 | .69 | .82 | 31.7 | 9.3 | 3.30 | .57 | .71 | .85 |
| | 1200 | 565 | 39.6 | 11.6 | 2.71 | .56 | .70 | .84 | 37.4 | 11.0 | 2.93 | .57 | .72 | .87 | 35.1 | 10.3 | 3.15 | .58 | .74 | .90 | 32.8 | 9.6 | 3.35 | .60 | .77 | .93 |
| | 1440 | 680 | 40.7 | 11.9 | 2.73 | .59 | .75 | .90 | 38.4 | 11.3 | 2.96 | .60 | .77 | .93 | 36.0 | 10.6 | 3.18 | .62 | .80 | .96 | 33.6 | 9.8 | 3.39 | .64 | .83 | .99 |
| 71°F (22°C) | 960 | 455 | 40.9 | 12.0 | 2.74 | .41 | .52 | .63 | 38.7 | 11.3 | 2.97 | .41 | .53 | .64 | 36.5 | 10.7 | 3.20 | .42 | .54 | .66 | 34.2 | 10.0 | 3.42 | .42 | .55 | .68 |
| | 1200 | 565 | 42.4 | 12.4 | 2.78 | .42 | .55 | .67 | 40.1 | 11.8 | 3.01 | .42 | .56 | .69 | 37.7 | 11.0 | 3.24 | .43 | .57 | .71 | 35.2 | 10.3 | 3.47 | .43 | .59 | .74 |
| | 1440 | 680 | 43.5 | 12.7 | 2.80 | .43 | .57 | .72 | 41.0 | 12.0 | 3.04 | .43 | .59 | .74 | 38.5 | 11.3 | 3.27 | .44 | .60 | .77 | 35.9 | 10.5 | 3.50 | .45 | .62 | .80 |

### 3 TON STANDARD EFFICIENCY - COOLING CAPACITY — TGA036S2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 960 | 455 | 35.6 | 10.4 | 2.17 | .69 | .83 | .97 | 34.1 | 10.0 | 2.44 | .70 | .85 | .99 | 32.7 | 9.6 | 2.74 | .71 | .87 | 1.00 | 31.1 | 9.1 | 3.08 | .73 | .90 | 1.00 |
| | 1200 | 565 | 37.1 | 10.9 | 2.18 | .74 | .92 | 1.00 | 35.6 | 10.4 | 2.45 | .76 | .94 | 1.00 | 34.1 | 10.0 | 2.75 | .78 | .96 | 1.00 | 32.6 | 9.6 | 3.09 | .80 | .99 | 1.00 |
| | 1440 | 680 | 38.5 | 11.3 | 2.19 | .80 | .98 | 1.00 | 37.0 | 10.8 | 2.46 | .82 | 1.00 | 1.00 | 35.6 | 10.4 | 2.76 | .84 | 1.00 | 1.00 | 34.2 | 10.0 | 3.10 | .87 | 1.00 | 1.00 |
| 67°F (19°C) | 960 | 455 | 38.2 | 11.2 | 2.19 | .54 | .66 | .79 | 36.6 | 10.7 | 2.45 | .55 | .67 | .81 | 35.0 | 10.3 | 2.76 | .55 | .69 | .83 | 33.4 | 9.8 | 3.09 | .56 | .70 | .85 |
| | 1200 | 565 | 39.6 | 11.6 | 2.20 | .57 | .72 | .88 | 38.0 | 11.1 | 2.47 | .58 | .73 | .90 | 36.3 | 10.6 | 2.77 | .59 | .75 | .92 | 34.6 | 10.1 | 3.10 | .60 | .77 | .95 |
| | 1440 | 680 | 40.7 | 11.9 | 2.21 | .60 | .77 | .95 | 39.0 | 11.4 | 2.47 | .61 | .79 | .97 | 37.2 | 10.9 | 2.78 | .62 | .82 | .99 | 35.4 | 10.4 | 3.11 | .64 | .84 | 1.00 |
| 71°F (22°C) | 960 | 455 | 41.0 | 12.0 | 2.21 | .41 | .52 | .64 | 39.4 | 11.5 | 2.48 | .41 | .53 | .65 | 37.7 | 11.0 | 2.78 | .41 | .54 | .66 | 36.0 | 10.6 | 3.12 | .41 | .54 | .67 |
| | 1200 | 565 | 42.5 | 12.5 | 2.22 | .42 | .55 | .69 | 40.8 | 12.0 | 2.49 | .42 | .56 | .71 | 39.0 | 11.4 | 2.79 | .42 | .57 | .72 | 37.1 | 10.9 | 3.13 | .43 | .58 | .74 |
| | 1440 | 680 | 43.5 | 12.7 | 2.23 | .43 | .59 | .75 | 41.7 | 12.2 | 2.50 | .43 | .60 | .77 | 39.8 | 11.7 | 2.80 | .44 | .61 | .79 | 37.9 | 11.1 | 3.13 | .44 | .63 | .81 |

### 4 TON BASIC EFFICIENCY - COOLING CAPACITY — TGA048B2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1280 | 605 | 46.5 | 13.6 | 3.48 | .69 | .83 | .95 | 44.7 | 13.1 | 3.88 | .70 | .84 | .97 | 42.8 | 12.5 | 4.35 | .71 | .86 | .98 | 40.9 | 12.0 | 4.87 | .73 | .88 | 1.00 |
| | 1600 | 755 | 48.2 | 14.1 | 3.52 | .74 | .90 | 1.00 | 46.4 | 13.6 | 3.93 | .75 | .92 | 1.00 | 44.4 | 13.0 | 4.39 | .77 | .94 | 1.00 | 42.4 | 12.4 | 4.92 | .79 | .96 | 1.00 |
| | 1920 | 905 | 49.6 | 14.5 | 3.55 | .79 | .96 | 1.00 | 47.8 | 14.0 | 3.96 | .81 | .97 | 1.00 | 45.8 | 13.4 | 4.43 | .83 | .99 | 1.00 | 43.8 | 12.8 | 4.96 | .85 | 1.00 | 1.00 |
| 67°F (19°C) | 1280 | 605 | 49.4 | 14.5 | 3.55 | .55 | .67 | .79 | 47.6 | 14.0 | 3.95 | .55 | .68 | .81 | 45.5 | 13.3 | 4.42 | .56 | .69 | .83 | 43.3 | 12.7 | 4.95 | .57 | .71 | .85 |
| | 1600 | 755 | 51.0 | 14.9 | 3.59 | .57 | .72 | .86 | 49.0 | 14.4 | 4.00 | .58 | .73 | .88 | 46.9 | 13.7 | 4.46 | .59 | .75 | .90 | 44.6 | 13.1 | 4.99 | .60 | .77 | .93 |
| | 1920 | 905 | 52.1 | 15.3 | 3.62 | .60 | .77 | .93 | 50.1 | 14.7 | 4.03 | .61 | .78 | .95 | 47.9 | 14.0 | 4.49 | .62 | .81 | .97 | 45.5 | 13.3 | 5.03 | .64 | .83 | .99 |
| 71°F (22°C) | 1280 | 605 | 52.6 | 15.4 | 3.63 | .41 | .53 | .64 | 50.7 | 14.9 | 4.04 | .41 | .53 | .65 | 48.5 | 14.2 | 4.51 | .42 | .54 | .67 | 46.2 | 13.5 | 5.04 | .42 | .55 | .68 |
| | 1600 | 755 | 54.2 | 15.9 | 3.67 | .42 | .56 | .69 | 52.1 | 15.3 | 4.09 | .42 | .57 | .71 | 49.8 | 14.6 | 4.55 | .43 | .58 | .72 | 47.4 | 13.9 | 5.08 | .43 | .59 | .74 |
| | 1920 | 905 | 55.3 | 16.2 | 3.70 | .43 | .59 | .74 | 53.1 | 15.6 | 4.11 | .44 | .60 | .76 | 50.8 | 14.9 | 4.58 | .44 | .61 | .78 | 48.2 | 14.1 | 5.12 | .45 | .63 | .80 |

### 4 TON STANDARD EFFICIENCY - COOLING CAPACITY — TGA048S2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1280 | 605 | 47.1 | 13.8 | 2.95 | .68 | .82 | .98 | 45.4 | 13.3 | 3.31 | .69 | .84 | .99 | 43.5 | 12.7 | 3.71 | .70 | .86 | 1.00 | 41.5 | 12.2 | 4.17 | .71 | .89 | 1.00 |
| | 1600 | 755 | 48.9 | 14.3 | 2.97 | .73 | .91 | 1.00 | 47.2 | 13.8 | 3.33 | .74 | .94 | 1.00 | 45.3 | 13.3 | 3.73 | .76 | .96 | 1.00 | 43.3 | 12.7 | 4.19 | .79 | .98 | 1.00 |
| | 1920 | 905 | 50.6 | 14.8 | 2.99 | .79 | .98 | 1.00 | 48.9 | 14.3 | 3.34 | .81 | 1.00 | 1.00 | 47.1 | 13.8 | 3.74 | .83 | 1.00 | 1.00 | 45.2 | 13.2 | 4.21 | .86 | 1.00 | 1.00 |
| 67°F (19°C) | 1280 | 605 | 50.2 | 14.7 | 2.98 | .53 | .65 | .78 | 48.4 | 14.2 | 3.34 | .54 | .66 | .80 | 46.4 | 13.6 | 3.74 | .54 | .67 | .82 | 44.3 | 13.0 | 4.20 | .55 | .69 | .85 |
| | 1600 | 755 | 51.9 | 15.2 | 3.00 | .56 | .70 | .88 | 50.0 | 14.7 | 3.36 | .57 | .72 | .90 | 47.9 | 14.0 | 3.76 | .58 | .74 | .92 | 45.7 | 13.4 | 4.22 | .59 | .76 | .95 |
| | 1920 | 905 | 53.1 | 15.6 | 3.02 | .59 | .77 | .96 | 51.1 | 15.0 | 3.37 | .60 | .79 | .97 | 49.0 | 14.4 | 3.77 | .61 | .81 | .99 | 46.7 | 13.7 | 4.23 | .63 | .83 | 1.00 |
| 71°F (22°C) | 1280 | 605 | 53.6 | 15.7 | 3.02 | .40 | .51 | .63 | 51.7 | 15.2 | 3.38 | .40 | .52 | .64 | 49.6 | 14.5 | 3.78 | .40 | .53 | .65 | 47.4 | 13.9 | 4.24 | .40 | .53 | .66 |
| | 1600 | 755 | 55.3 | 16.2 | 3.04 | .41 | .55 | .68 | 53.3 | 15.6 | 3.40 | .41 | .55 | .70 | 51.1 | 15.0 | 3.80 | .42 | .56 | .71 | 48.7 | 14.3 | 4.26 | .42 | .58 | .73 |
| | 1920 | 905 | 56.4 | 16.5 | 3.06 | .42 | .58 | .74 | 54.3 | 15.9 | 3.41 | .43 | .59 | .76 | 52.1 | 15.3 | 3.82 | .43 | .60 | .78 | 49.6 | 14.5 | 4.28 | .43 | .62 | .81 |

## COOLING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

### 5 TON BASIC EFFICIENCY - COOLING CAPACITY — TGA060B2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1600 | 755 | 57.6 | 16.9 | 4.78 | .69 | .83 | .96 | 55.4 | 16.2 | 5.33 | .70 | .84 | .97 | 53.1 | 15.6 | 5.94 | .71 | .86 | .99 | 50.8 | 14.9 | 6.64 | .72 | .88 | 1.00 |
| | 2000 | 945 | 59.7 | 17.5 | 4.85 | .73 | .90 | 1.00 | 57.3 | 16.8 | 5.40 | .75 | .92 | 1.00 | 54.9 | 16.1 | 6.02 | .76 | .94 | 1.00 | 52.7 | 15.4 | 6.71 | .78 | .96 | 1.00 |
| | 2400 | 1135 | 61.3 | 18.0 | 4.90 | .79 | .96 | 1.00 | 58.9 | 17.3 | 5.46 | .80 | .97 | 1.00 | 56.6 | 16.6 | 6.08 | .82 | .99 | 1.00 | 54.3 | 15.9 | 6.79 | .84 | 1.00 | 1.00 |
| 67°F (19°C) | 1600 | 755 | 61.1 | 17.9 | 4.89 | .54 | .66 | .79 | 58.7 | 17.2 | 5.45 | .55 | .67 | .81 | 56.3 | 16.5 | 6.06 | .55 | .68 | .83 | 53.8 | 15.8 | 6.76 | .56 | .70 | .85 |
| | 2000 | 945 | 62.9 | 18.4 | 4.95 | .57 | .71 | .86 | 60.4 | 17.7 | 5.50 | .57 | .72 | .88 | 57.8 | 16.9 | 6.13 | .58 | .74 | .91 | 55.2 | 16.2 | 6.84 | .59 | .76 | .93 |
| | 2400 | 1135 | 64.2 | 18.8 | 4.99 | .59 | .76 | .93 | 61.6 | 18.1 | 5.55 | .60 | .78 | .95 | 58.9 | 17.3 | 6.18 | .61 | .80 | .97 | 56.3 | 16.5 | 6.88 | .63 | .82 | .99 |
| 71°F (22°C) | 1600 | 755 | 64.9 | 19.0 | 5.02 | .41 | .52 | .64 | 62.4 | 18.3 | 5.58 | .41 | .53 | .65 | 59.7 | 17.5 | 6.21 | .41 | .54 | .66 | 57.1 | 16.7 | 6.92 | .41 | .55 | .68 |
| | 2000 | 945 | 66.6 | 19.5 | 5.08 | .42 | .55 | .69 | 64.0 | 18.8 | 5.65 | .42 | .56 | .70 | 61.2 | 17.9 | 6.27 | .42 | .57 | .72 | 58.5 | 17.1 | 6.99 | .43 | .58 | .74 |
| | 2400 | 1135 | 67.9 | 19.9 | 5.12 | .43 | .58 | .74 | 65.1 | 19.1 | 5.68 | .43 | .60 | .76 | 62.2 | 18.2 | 6.32 | .44 | .61 | .78 | 59.4 | 17.4 | 7.03 | .44 | .62 | .80 |

### 5 TON STANDARD EFFICIENCY - COOLING CAPACITY — TGA060S2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1600 | 755 | 59.7 | 17.5 | 3.65 | .70 | .84 | .99 | 57.4 | 16.8 | 4.10 | .71 | .86 | 1.00 | 55.0 | 16.1 | 4.63 | .72 | .89 | 1.00 | 52.4 | 15.4 | 5.26 | .74 | .91 | 1.00 |
| | 2000 | 945 | 62.1 | 18.2 | 3.68 | .76 | .93 | 1.00 | 59.7 | 17.5 | 4.13 | .77 | .96 | 1.00 | 57.3 | 16.8 | 4.66 | .79 | .98 | 1.00 | 54.8 | 16.1 | 5.29 | .81 | 1.00 | 1.00 |
| | 2400 | 1135 | 64.3 | 18.8 | 3.70 | .82 | 1.00 | 1.00 | 62.1 | 18.2 | 4.15 | .84 | 1.00 | 1.00 | 59.7 | 17.5 | 4.68 | .86 | 1.00 | 1.00 | 57.3 | 16.8 | 5.31 | .89 | 1.00 | 1.00 |
| 67°F (19°C) | 1600 | 755 | 63.5 | 18.6 | 3.70 | .55 | .67 | .81 | 61.1 | 17.9 | 4.15 | .55 | .69 | .83 | 58.5 | 17.1 | 4.68 | .56 | .70 | .85 | 55.7 | 16.3 | 5.30 | .57 | .72 | .87 |
| | 2000 | 945 | 65.6 | 19.2 | 3.72 | .58 | .73 | .90 | 63.0 | 18.5 | 4.16 | .59 | .75 | .92 | 60.3 | 17.7 | 4.69 | .60 | .77 | .94 | 57.4 | 16.8 | 5.32 | .61 | .79 | .97 |
| | 2400 | 1135 | 67.0 | 19.6 | 3.73 | .62 | .80 | .98 | 64.3 | 18.8 | 4.18 | .63 | .82 | .99 | 61.6 | 18.1 | 4.71 | .64 | .84 | 1.00 | 58.7 | 17.2 | 5.33 | .65 | .87 | 1.00 |
| 71°F (22°C) | 1600 | 755 | 67.7 | 19.8 | 3.74 | .41 | .53 | .65 | 65.0 | 19.0 | 4.18 | .41 | .54 | .66 | 62.3 | 18.3 | 4.72 | .41 | .55 | .68 | 59.4 | 17.4 | 5.34 | .42 | .56 | .69 |
| | 2000 | 945 | 69.6 | 20.4 | 3.75 | .42 | .57 | .71 | 66.8 | 19.6 | 4.20 | .43 | .58 | .73 | 64.0 | 18.8 | 4.72 | .43 | .59 | .74 | 60.9 | 17.8 | 5.35 | .43 | .60 | .77 |
| | 2400 | 1135 | 70.9 | 20.8 | 3.77 | .44 | .61 | .77 | 68.0 | 19.9 | 4.21 | .44 | .62 | .80 | 65.1 | 19.1 | 4.73 | .45 | .63 | .82 | 61.9 | 18.1 | 5.36 | .45 | .65 | .85 |

### 6 TON STANDARD EFFICIENCY - COOLING CAPACITY — TGA072S2

| Entering Wet Bulb Temperature | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°C) | | | | | | 115°F (46°C) | | | | | |
| | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | | Total Cooling Capacity | | Comp Motor kW Input | Sensible To Total Ratio (S/T) Dry Bulb | | |
| | cfm | L/s | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 1920 | 905 | 71.5 | 21.0 | 4.98 | .65 | .80 | .97 | 68.9 | 20.2 | 5.57 | .66 | .82 | .98 | 66.2 | 19.4 | 6.26 | .67 | .85 | 1.00 | 63.1 | 18.5 | 7.07 | .68 | .87 | 1.00 |
| | 2400 | 1135 | 74.4 | 21.8 | 5.05 | .70 | .90 | 1.00 | 71.7 | 21.0 | 5.64 | .72 | .92 | 1.00 | 68.8 | 20.2 | 6.33 | .73 | .95 | 1.00 | 65.7 | 19.3 | 7.14 | .76 | .97 | 1.00 |
| | 2880 | 1360 | 76.8 | 22.5 | 5.10 | .76 | .97 | 1.00 | 74.1 | 21.7 | 5.69 | .79 | .99 | 1.00 | 71.4 | 20.9 | 6.39 | .81 | 1.00 | 1.00 | 68.4 | 20.0 | 7.21 | .84 | 1.00 | 1.00 |
| 67°F (19°C) | 1920 | 905 | 76.1 | 22.3 | 5.09 | .51 | .62 | .76 | 73.4 | 21.5 | 5.68 | .51 | .63 | .78 | 70.4 | 20.6 | 6.37 | .52 | .65 | .80 | 67.1 | 19.7 | 7.17 | .53 | .66 | .83 |
| | 2400 | 1135 | 78.7 | 23.1 | 5.14 | .54 | .67 | .86 | 75.7 | 22.2 | 5.74 | .54 | .69 | .88 | 72.5 | 21.2 | 6.44 | .55 | .71 | .91 | 69.1 | 20.3 | 7.24 | .56 | .73 | .94 |
| | 2880 | 1360 | 80.4 | 23.6 | 5.19 | .56 | .74 | .94 | 77.4 | 22.7 | 5.78 | .57 | .76 | .96 | 74.2 | 21.7 | 6.47 | .58 | .78 | .98 | 70.6 | 20.7 | 7.28 | .60 | .81 | 1.00 |
| 71°F (22°C) | 1920 | 905 | 81.2 | 23.8 | 5.21 | .38 | .49 | .60 | 78.3 | 22.9 | 5.80 | .38 | .50 | .61 | 75.2 | 22.0 | 6.50 | .38 | .50 | .62 | 71.7 | 21.0 | 7.30 | .39 | .51 | .64 |
| | 2400 | 1135 | 83.7 | 24.5 | 5.27 | .39 | .52 | .65 | 80.6 | 23.6 | 5.87 | .39 | .53 | .67 | 77.3 | 22.7 | 6.56 | .40 | .54 | .68 | 73.6 | 21.6 | 7.37 | .40 | .55 | .70 |
| | 2880 | 1360 | 85.4 | 25.0 | 5.31 | .40 | .56 | .71 | 82.2 | 24.1 | 5.90 | .41 | .56 | .73 | 78.7 | 23.1 | 6.60 | .41 | .57 | .75 | 74.8 | 21.9 | 7.41 | .42 | .59 | .79 |

## HIGH ALTITUDE DERATE

Units may be installed at altitudes up to 2000 feet above sea level without any modification. At altitudes above 2000 feet, units must be derated to match gas manifold pressures shown in table below.

NOTE - This is the only permissible derate for these units.

| Altitude - Feet | Gas Manifold Pressure - in. w.g. | |
|---|---|---|
| | Natural Gas | LPG/Propane |
| 2001 - 3000 | 3.2 | 9.80 |
| 3001 - 4000 | 3.1 | 9.10 |
| 4001 - 5000 | 3.0 | 8.70 |
| 5001 - 6000 | 2.8 | 8.30 |
| 6001 - 7000 | 2.7 | 8.20 |
| 7001 - 8000 | 2.6 | 8.10 |
| 8001 - 10,000 | Contact Technical Support | |

## BLOWER DATA - DIRECT DRIVE 3 - 4 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

| External Static Pressure (in. w.g.) | Air Volume (cfm) at Various Blower Speeds | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 208 VOLTS | | | 230 VOLTS | | | 460/575 VOLTS | | |
| | High | Medium | Low | High | Medium | Low | High | Medium | Low |
| **3 and 4 Ton Basic Efficiency (Down-Flow)** | | | | | | | | | **TGA036B and TGA048B** |
| 0.0 | 2000 | 1660 | 1145 | 2200 | 1875 | 1330 | 2100 | 1780 | 1220 |
| 0.1 | 1935 | 1610 | 1150 | 2110 | 1810 | 1330 | 2045 | 1725 | 1220 |
| 0.2 | 1880 | 1565 | 1135 | 2040 | 1755 | 1310 | 1995 | 1665 | 1210 |
| 0.3 | 1830 | 1515 | 1100 | 1980 | 1700 | 1270 | 1945 | 1615 | 1185 |
| 0.4 | 1780 | 1470 | 1045 | 1925 | 1645 | 1215 | 1890 | 1560 | 1145 |
| 0.5 | 1720 | 1420 | 975 | 1860 | 1590 | 1145 | 1830 | 1510 | 1085 |
| 0.6 | 1645 | 1365 | 885 | 1785 | 1530 | 1060 | 1750 | 1465 | 1015 |
| 0.7 | 1550 | 1305 | 785 | 1680 | 1465 | 960 | 1655 | 1425 | 920 |
| 0.8 | 1425 | 1240 | - - - | 1540 | 1395 | - - - | 1530 | 1390 | - - - |
| 0.9 | 1265 | 1170 | - - - | 1360 | 1320 | - - - | 1380 | 1380 | - - - |
| 1.0 | 1055 | - - - | - - - | 1120 | - - - | - - - | 1185 | - - - | - - - |
| **3 and 4 Ton Basic Efficiency (Horizontal)** | | | | | | | | | **TGA036B and TGA048B** |
| 0.0 | 1895 | 1585 | 1090 | 2085 | 1790 | 1265 | 2100 | 1795 | 1265 |
| 0.1 | 1830 | 1530 | 1095 | 1995 | 1720 | 1260 | 2025 | 1725 | 1250 |
| 0.2 | 1775 | 1480 | 1080 | 1925 | 1660 | 1240 | 1960 | 1660 | 1235 |
| 0.3 | 1730 | 1430 | 1045 | 1870 | 1605 | 1205 | 1905 | 1610 | 1210 |
| 0.4 | 1680 | 1385 | 990 | 1820 | 1555 | 1150 | 1845 | 1560 | 1170 |
| 0.5 | 1620 | 1335 | 920 | 1755 | 1495 | 1085 | 1775 | 1510 | 1110 |
| 0.6 | 1540 | 1275 | 835 | 1670 | 1430 | 995 | 1695 | 1455 | 1025 |
| 0.7 | 1435 | 1205 | 730 | 1555 | 1355 | 890 | 1595 | 1395 | 905 |
| 0.8 | 1290 | 1115 | - - - | 1400 | 1255 | - - - | 1465 | 1320 | - - - |
| 0.9 | 1105 | 1010 | - - - | 1185 | 1135 | - - - | 1300 | 1230 | - - - |
| 1.0 | 860 | - - - | - - - | 910 | - - - | - - - | 1090 | - - - | - - - |
| **3 and 4 Ton Standard Efficiency (Down-Flow)** | | | | | | | | | **TGA036S and TGA048S** |
| 0.0 | 1965 | 1640 | 1150 | 2145 | 1845 | 1330 | 2070 | 1755 | 1220 |
| 0.1 | 1905 | 1595 | 1150 | 2070 | 1785 | 1325 | 2020 | 1700 | 1220 |
| 0.2 | 1855 | 1545 | 1130 | 2010 | 1735 | 1300 | 1970 | 1645 | 1205 |
| 0.3 | 1810 | 1500 | 1095 | 1955 | 1680 | 1260 | 1920 | 1595 | 1180 |
| 0.4 | 1755 | 1455 | 1035 | 1895 | 1625 | 1200 | 1865 | 1545 | 1135 |
| 0.5 | 1690 | 1405 | 965 | 1830 | 1570 | 1130 | 1795 | 1495 | 1075 |
| 0.6 | 1610 | 1350 | 875 | 1745 | 1510 | 1045 | 1715 | 1450 | 1000 |
| 0.7 | 1515 | 1290 | 775 | 1635 | 1445 | 945 | 1615 | 1410 | 910 |
| 0.8 | 1385 | 1220 | - - - | 1490 | 1370 | - - - | 1490 | 1375 | - - - |
| 0.9 | 1225 | 1150 | - - - | 1310 | 1290 | - - - | 1340 | 1360 | - - - |
| 1.0 | 1025 | - - - | - - - | 1075 | - - - | - - - | 1150 | - - - | - - - |
| **3 and 4 Ton Standard Efficiency (Horizontal)** | | | | | | | | | **TGA036S and TGA048S** |
| 0.0 | 1860 | 1565 | 1095 | 2030 | 1755 | 1265 | 2055 | 1765 | 1260 |
| 0.1 | 1805 | 1510 | 1090 | 1960 | 1695 | 1255 | 1990 | 1700 | 1245 |
| 0.2 | 1755 | 1465 | 1075 | 1900 | 1640 | 1235 | 1935 | 1640 | 1230 |
| 0.3 | 1710 | 1420 | 1035 | 1850 | 1585 | 1195 | 1875 | 1590 | 1200 |
| 0.4 | 1660 | 1370 | 985 | 1790 | 1535 | 1140 | 1815 | 1545 | 1160 |
| 0.5 | 1595 | 1320 | 910 | 1720 | 1475 | 1070 | 1745 | 1495 | 1095 |
| 0.6 | 1510 | 1260 | 825 | 1630 | 1410 | 980 | 1660 | 1440 | 1005 |
| 0.7 | 1400 | 1190 | 720 | 1510 | 1330 | 880 | 1555 | 1375 | 885 |
| 0.8 | 1255 | 1100 | - - - | 1350 | 1230 | - - - | 1425 | 1295 | - - - |
| 0.9 | 1065 | 990 | - - - | 1140 | 1110 | - - - | 1260 | 1200 | - - - |
| 1.0 | 830 | - - - | - - - | 875 | - - - | - - - | 1055 | - - - | - - - |

## BLOWER DATA - DIRECT DRIVE — 5 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

| External Static Pressure (in. w.g.) | Air Volume (cfm) at Various Blower Speeds | | | | | |
|---|---|---|---|---|---|---|
| | 208 VOLTS | | 230 VOLTS | | 460/575 VOLTS | |
| | High | Low | High | Low | High | Low |
| **5 Ton Basic Efficiency (Down-Flow)** | | | | | | **TGA060B** |
| 0.0 | 2260 | 1660 | 2445 | 1960 | 2385 | 1735 |
| 0.1 | 2235 | 1670 | 2420 | 1950 | 2270 | 1725 |
| 0.2 | 2205 | 1680 | 2390 | 1945 | 2185 | 1720 |
| 0.3 | 2180 | 1685 | 2360 | 1930 | 2130 | 1725 |
| 0.4 | 2150 | 1680 | 2325 | 1915 | 2095 | 1725 |
| 0.5 | 2115 | 1665 | 2280 | 1890 | 2070 | 1715 |
| 0.6 | 2070 | 1645 | 2230 | 1855 | 2045 | 1700 |
| 0.7 | 2015 | 1605 | 2165 | 1810 | 2015 | 1665 |
| 0.8 | 1950 | 1545 | 2090 | 1745 | 1965 | 1610 |
| 0.9 | 1865 | 1465 | 2000 | 1660 | 1895 | 1530 |
| 1.0 | 1765 | - - - | 1890 | - - - | 1790 | - - - |
| **5 Ton Basic Efficiency (Horizontal)** | | | | | | **TGA060B** |
| 0.0 | 2145 | 1595 | 2320 | 1880 | 2370 | 1790 |
| 0.1 | 2110 | 1615 | 2285 | 1885 | 2315 | 1815 |
| 0.2 | 2080 | 1625 | 2250 | 1880 | 2270 | 1825 |
| 0.3 | 2040 | 1620 | 2210 | 1860 | 2225 | 1820 |
| 0.4 | 2000 | 1605 | 2160 | 1830 | 2175 | 1800 |
| 0.5 | 1950 | 1580 | 2105 | 1790 | 2125 | 1770 |
| 0.6 | 1895 | 1540 | 2040 | 1740 | 2070 | 1725 |
| 0.7 | 1830 | 1485 | 1965 | 1675 | 2005 | 1665 |
| 0.8 | 1755 | 1420 | 1880 | 1605 | 1930 | 1595 |
| 0.9 | 1665 | 1340 | 1785 | 1520 | 1840 | 1505 |
| 1.0 | 1565 | - - - | 1675 | - - - | 1735 | - - - |
| **5 Ton Standard Efficiency (Down-Flow)** | | | | | | **TGA060S** |
| 0.0 | 2230 | 1670 | 2410 | 1950 | 2240 | 1730 |
| 0.1 | 2205 | 1680 | 2380 | 1945 | 2175 | 1725 |
| 0.2 | 2175 | 1685 | 2350 | 1930 | 2130 | 1725 |
| 0.3 | 2145 | 1685 | 2315 | 1915 | 2095 | 1725 |
| 0.4 | 2110 | 1670 | 2270 | 1890 | 2070 | 1720 |
| 0.5 | 2065 | 1650 | 2215 | 1860 | 2040 | 1705 |
| 0.6 | 2015 | 1615 | 2155 | 1815 | 2010 | 1675 |
| 0.7 | 1950 | 1565 | 2085 | 1755 | 1960 | 1630 |
| 0.8 | 1875 | 1495 | 2000 | 1685 | 1900 | 1560 |
| 0.9 | 1780 | 1410 | 1900 | 1595 | 1810 | 1465 |
| 1.0 | 1675 | - - - | 1785 | - - - | 1690 | - - - |
| **5 Ton Standard Efficiency (Horizontal)** | | | | | | **TGA060S** |
| 0.0 | 2110 | 1615 | 2280 | 1885 | 2305 | 1815 |
| 0.1 | 2075 | 1625 | 2245 | 1880 | 2260 | 1825 |
| 0.2 | 2040 | 1625 | 2205 | 1860 | 2215 | 1820 |
| 0.3 | 2000 | 1610 | 2155 | 1835 | 2170 | 1805 |
| 0.4 | 1950 | 1590 | 2100 | 1800 | 2120 | 1775 |
| 0.5 | 1900 | 1555 | 2040 | 1750 | 2065 | 1735 |
| 0.6 | 1835 | 1505 | 1965 | 1695 | 2005 | 1680 |
| 0.7 | 1765 | 1450 | 1890 | 1625 | 1935 | 1615 |
| 0.8 | 1685 | 1375 | 1800 | 1545 | 1855 | 1535 |
| 0.9 | 1595 | 1295 | 1700 | 1460 | 1755 | 1445 |
| 1.0 | 1495 | - - - | 1595 | - - - | 1645 | - - - |

## BLOWER DATA - BELT DRIVE — 3 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **3 Ton Basic Efficiency (Down-Flow)** — **TGA036B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | Field Furnished | | | | Low Static - Drive Kit #1 | | | | | | | | High Static - Drive Kit #5 | | | |
| 900 | 495 | 0.10 | 600 | 0.15 | 700 | 0.25 | 790 | 0.35 | 870 | 0.45 | 945 | 0.55 | 1015 | 0.65 | 1075 | 0.75 |
| 1000 | 525 | 0.10 | 625 | 0.20 | 715 | 0.25 | 805 | 0.35 | 880 | 0.45 | 955 | 0.55 | 1025 | 0.70 | 1085 | 0.80 |
| 1100 | 555 | 0.15 | 650 | 0.20 | 735 | 0.30 | 820 | 0.40 | 895 | 0.50 | 965 | 0.60 | 1035 | 0.70 | 1095 | 0.85 |
| 1200 | 590 | 0.20 | 675 | 0.25 | 760 | 0.35 | 835 | 0.40 | 910 | 0.50 | 980 | 0.65 | 1045 | 0.75 | 1110 | 0.90 |
| 1300 | 625 | 0.20 | 705 | 0.30 | 780 | 0.35 | 855 | 0.45 | 930 | 0.55 | 995 | 0.70 | 1060 | 0.80 | 1120 | 0.95 |
| 1400 | 665 | 0.25 | 735 | 0.35 | 810 | 0.40 | 880 | 0.50 | 945 | 0.60 | 1010 | 0.75 | 1075 | 0.85 | 1135 | 1.00 |
| 1500 | 700 | 0.30 | 770 | 0.40 | 835 | 0.45 | 905 | 0.55 | 970 | 0.70 | 1030 | 0.80 | 1090 | 0.90 | 1150 | 1.05 |

**0.90 to 1.60 in. w.g.** — **3 Ton Basic Efficiency (Down-Flow)** — **TGA036B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.0 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | High Static - Drive Kit #5 | | | | | | | | Field Furnished | | | | | | | |
| 900 | 1135 | 0.90 | 1195 | 1.05 | 1250 | 1.15 | 1300 | 1.30 | 1350 | 1.45 | 1400 | 1.60 | 1445 | 1.80 | 1490 | 1.95 |
| 1000 | 1145 | 0.95 | 1205 | 1.10 | 1260 | 1.20 | 1310 | 1.35 | 1360 | 1.50 | 1405 | 1.65 | 1455 | 1.85 | 1500 | 2.00 |
| 1100 | 1155 | 1.00 | 1215 | 1.10 | 1265 | 1.25 | 1320 | 1.40 | 1370 | 1.55 | 1415 | 1.75 | 1465 | 1.90 | 1510 | 2.05 |
| 1200 | 1165 | 1.00 | 1225 | 1.15 | 1275 | 1.30 | 1330 | 1.45 | 1380 | 1.65 | 1425 | 1.80 | 1470 | 1.95 | 1515 | 2.10 |
| 1300 | 1180 | 1.10 | 1235 | 1.20 | 1285 | 1.35 | 1340 | 1.55 | 1390 | 1.70 | 1435 | 1.85 | 1480 | 2.00 | 1525 | 2.20 |
| 1400 | 1190 | 1.15 | 1245 | 1.25 | 1300 | 1.45 | 1350 | 1.60 | 1400 | 1.75 | 1445 | 1.90 | 1490 | 2.10 | 1535 | 2.25 |
| 1500 | 1205 | 1.20 | 1260 | 1.35 | 1310 | 1.50 | 1360 | 1.65 | 1410 | 1.80 | 1455 | 2.00 | 1500 | 2.15 | 1545 | 2.35 |

**0.10 to 0.80 in. w.g.** — **3 Ton Basic Efficiency (Horizontal)** — **TGA036B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | Field Furnished | | | | | | Low Static - Drive Kit #1 | | | | | | | | | |
| 900 | 485 | 0.10 | 575 | 0.15 | 660 | 0.20 | 740 | 0.25 | 810 | 0.30 | 875 | 0.40 | 940 | 0.45 | 995 | 0.55 |
| 1000 | 515 | 0.10 | 600 | 0.15 | 685 | 0.25 | 755 | 0.30 | 825 | 0.35 | 890 | 0.40 | 950 | 0.50 | 1010 | 0.60 |
| 1100 | 550 | 0.15 | 630 | 0.20 | 705 | 0.25 | 775 | 0.30 | 845 | 0.40 | 905 | 0.45 | 965 | 0.55 | 1020 | 0.60 |
| 1200 | 585 | 0.20 | 660 | 0.25 | 730 | 0.30 | 800 | 0.35 | 860 | 0.45 | 925 | 0.50 | 980 | 0.60 | 1035 | 0.70 |
| 1300 | 625 | 0.25 | 690 | 0.30 | 760 | 0.35 | 820 | 0.40 | 885 | 0.50 | 940 | 0.55 | 1000 | 0.65 | 1050 | 0.75 |
| 1400 | 660 | 0.30 | 725 | 0.35 | 785 | 0.40 | 850 | 0.50 | 905 | 0.55 | 965 | 0.65 | 1015 | 0.70 | 1070 | 0.80 |
| 1500 | 700 | 0.35 | 760 | 0.40 | 820 | 0.45 | 875 | 0.55 | 930 | 0.60 | 985 | 0.70 | 1035 | 0.80 | 1085 | 0.85 |

**0.90 to 1.60 in. w.g.** — **3 Ton Basic Efficiency (Horizontal)** — **TGA036B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.0 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | High Static - Drive Kit #5 | | | | | | | | | | | | | | Field | |
| 900 | 1050 | 0.60 | 1105 | 0.70 | 1150 | 0.80 | 1200 | 0.90 | 1245 | 0.95 | 1290 | 1.05 | 1330 | 1.15 | 1375 | 1.30 |
| 1000 | 1060 | 0.65 | 1115 | 0.75 | 1160 | 0.85 | 1210 | 0.95 | 1255 | 1.00 | 1300 | 1.15 | 1340 | 1.20 | 1380 | 1.35 |
| 1100 | 1075 | 0.70 | 1125 | 0.80 | 1175 | 0.90 | 1220 | 1.00 | 1265 | 1.10 | 1310 | 1.20 | 1350 | 1.30 | 1390 | 1.40 |
| 1200 | 1085 | 0.75 | 1140 | 0.85 | 1185 | 0.95 | 1230 | 1.05 | 1275 | 1.15 | 1320 | 1.25 | 1360 | 1.35 | 1400 | 1.45 |
| 1300 | 1100 | 0.80 | 1150 | 0.90 | 1200 | 1.00 | 1245 | 1.10 | 1290 | 1.20 | 1330 | 1.30 | 1370 | 1.40 | 1410 | 1.55 |
| 1400 | 1120 | 0.90 | 1165 | 1.00 | 1215 | 1.10 | 1260 | 1.20 | 1300 | 1.30 | 1345 | 1.40 | 1385 | 1.50 | 1425 | 1.60 |
| 1500 | 1135 | 0.95 | 1185 | 1.05 | 1230 | 1.15 | 1275 | 1.30 | 1315 | 1.40 | 1355 | 1.50 | 1395 | 1.60 | 1435 | 1.70 |

## BLOWER DATA - BELT DRIVE — 3 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 1.00 in. w.g.** — **3 Ton Standard Efficiency (Down-Flow)** — **TGA036S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | **Low Static - Drive Kit #1** | | | | | | | | | | **Kit 5** | |
| 900 | 500 | 0.10 | 605 | 0.15 | 705 | 0.25 | 790 | 0.30 | 870 | 0.40 | 945 | 0.50 | 1010 | 0.60 | 1075 | 0.75 |
| 1000 | 535 | 0.15 | 630 | 0.20 | 720 | 0.25 | 805 | 0.35 | 885 | 0.45 | 955 | 0.55 | 1020 | 0.65 | 1085 | 0.80 |
| 1100 | 570 | 0.15 | 655 | 0.20 | 740 | 0.30 | 820 | 0.40 | 895 | 0.45 | 970 | 0.60 | 1035 | 0.70 | 1095 | 0.80 |
| 1200 | 605 | 0.20 | 685 | 0.25 | 765 | 0.35 | 840 | 0.40 | 915 | 0.50 | 980 | 0.60 | 1045 | 0.75 | 1110 | 0.85 |
| 1300 | 640 | 0.25 | 715 | 0.30 | 790 | 0.35 | 865 | 0.45 | 930 | 0.55 | 1000 | 0.65 | 1060 | 0.80 | 1120 | 0.90 |
| 1400 | 680 | 0.30 | 750 | 0.35 | 820 | 0.45 | 885 | 0.50 | 955 | 0.60 | 1015 | 0.70 | 1080 | 0.85 | 1135 | 0.95 |
| 1500 | 720 | 0.35 | 785 | 0.40 | 850 | 0.50 | 910 | 0.55 | 975 | 0.65 | 1035 | 0.80 | 1095 | 0.90 | 1155 | 1.05 |

**0.90 to 1.60 in. w.g.** — **3 Ton Standard Efficiency (Down-Flow)** — **TGA036S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.0 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **High Static - Drive Kit #5** | | | | | | | | | | **Field Furnished** | | | | | |
| 900 | 1135 | 0.85 | 1190 | 1.00 | 1245 | 1.10 | 1295 | 1.25 | 1345 | 1.40 | 1390 | 1.55 | 1435 | 1.70 | 1480 | 1.85 |
| 1000 | 1145 | 0.90 | 1200 | 1.05 | 1255 | 1.15 | 1305 | 1.30 | 1355 | 1.45 | 1400 | 1.60 | 1445 | 1.75 | 1490 | 1.90 |
| 1100 | 1155 | 0.95 | 1210 | 1.10 | 1265 | 1.20 | 1315 | 1.35 | 1365 | 1.50 | 1410 | 1.65 | 1455 | 1.80 | 1500 | 1.95 |
| 1200 | 1165 | 1.00 | 1225 | 1.15 | 1275 | 1.25 | 1325 | 1.40 | 1375 | 1.55 | 1425 | 1.75 | 1470 | 1.90 | 1510 | 2.05 |
| 1300 | 1180 | 1.05 | 1235 | 1.20 | 1285 | 1.30 | 1340 | 1.50 | 1385 | 1.65 | 1435 | 1.80 | 1480 | 1.95 | 1525 | 2.15 |
| 1400 | 1195 | 1.10 | 1245 | 1.25 | 1300 | 1.40 | 1350 | 1.55 | 1400 | 1.70 | 1445 | 1.85 | 1490 | 2.05 | 1535 | 2.20 |
| 1500 | 1210 | 1.15 | 1260 | 1.30 | 1315 | 1.45 | 1360 | 1.60 | 1410 | 1.75 | 1455 | 1.95 | 1500 | 2.10 | 1545 | 2.30 |

**0.10 to 0.80 in. w.g.** — **3 Ton Standard Efficiency (Horizontal)** — **TGA036S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | | | **Low Static - Drive Kit #1** | | | | | | | | | |
| 900 | 490 | 0.10 | 580 | 0.15 | 665 | 0.20 | 745 | 0.25 | 815 | 0.30 | 880 | 0.40 | 940 | 0.45 | 1000 | 0.55 |
| 1000 | 525 | 0.10 | 610 | 0.15 | 690 | 0.25 | 760 | 0.30 | 830 | 0.35 | 895 | 0.45 | 955 | 0.50 | 1010 | 0.60 |
| 1100 | 560 | 0.15 | 640 | 0.20 | 710 | 0.25 | 780 | 0.30 | 850 | 0.40 | 910 | 0.45 | 970 | 0.55 | 1025 | 0.65 |
| 1200 | 600 | 0.20 | 670 | 0.25 | 740 | 0.30 | 805 | 0.35 | 870 | 0.45 | 930 | 0.50 | 985 | 0.60 | 1040 | 0.70 |
| 1300 | 635 | 0.25 | 705 | 0.30 | 770 | 0.35 | 830 | 0.40 | 890 | 0.50 | 950 | 0.55 | 1005 | 0.65 | 1055 | 0.75 |
| 1400 | 675 | 0.30 | 740 | 0.35 | 800 | 0.40 | 860 | 0.50 | 915 | 0.55 | 970 | 0.65 | 1025 | 0.70 | 1075 | 0.80 |
| 1500 | 715 | 0.35 | 775 | 0.40 | 830 | 0.45 | 885 | 0.55 | 940 | 0.60 | 995 | 0.70 | 1045 | 0.80 | 1095 | 0.90 |

**0.90 to 1.60 in. w.g.** — **3 Ton Standard Efficiency (Horizontal)** — **TGA036S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.0 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **High Static - Drive Kit #5** | | | | | | | | | | | | | | **Field** | |
| 900 | 1055 | 0.60 | 1105 | 0.70 | 1155 | 0.80 | 1205 | 0.90 | 1250 | 0.95 | 1295 | 1.05 | 1335 | 1.15 | 1375 | 1.25 |
| 1000 | 1065 | 0.65 | 1115 | 0.75 | 1165 | 0.85 | 1215 | 0.95 | 1260 | 1.05 | 1305 | 1.15 | 1345 | 1.20 | 1385 | 1.30 |
| 1100 | 1080 | 0.70 | 1130 | 0.80 | 1175 | 0.90 | 1225 | 1.00 | 1270 | 1.10 | 1315 | 1.20 | 1355 | 1.30 | 1395 | 1.40 |
| 1200 | 1090 | 0.75 | 1140 | 0.85 | 1190 | 0.95 | 1235 | 1.05 | 1280 | 1.15 | 1325 | 1.25 | 1365 | 1.35 | 1405 | 1.45 |
| 1300 | 1105 | 0.80 | 1155 | 0.90 | 1205 | 1.00 | 1250 | 1.10 | 1295 | 1.25 | 1335 | 1.35 | 1375 | 1.45 | 1415 | 1.55 |
| 1400 | 1125 | 0.90 | 1170 | 1.00 | 1220 | 1.10 | 1265 | 1.20 | 1305 | 1.30 | 1350 | 1.40 | 1390 | 1.50 | 1430 | 1.65 |
| 1500 | 1145 | 1.00 | 1190 | 1.05 | 1235 | 1.15 | 1280 | 1.30 | 1320 | 1.40 | 1365 | 1.50 | 1405 | 1.60 | 1440 | 1.70 |

## BLOWER DATA - BELT DRIVE — 4 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **4 Ton Basic Efficiency (Down-Flow)** — **TGA048B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | **Low Static - Drive Kit #2** | | | | | | | | | | | |
| 1200 | 590 | 0.15 | 670 | 0.25 | 750 | 0.30 | 825 | 0.35 | 895 | 0.45 | 965 | 0.55 | 1025 | 0.65 | 1085 | 0.75 |
| 1300 | 625 | 0.20 | 700 | 0.25 | 775 | 0.35 | 845 | 0.40 | 915 | 0.50 | 980 | 0.60 | 1040 | 0.70 | 1100 | 0.80 |
| 1400 | 660 | 0.25 | 730 | 0.30 | 800 | 0.40 | 870 | 0.45 | 935 | 0.55 | 995 | 0.65 | 1055 | 0.75 | 1115 | 0.85 |
| 1500 | 695 | 0.30 | 765 | 0.35 | 830 | 0.45 | 895 | 0.50 | 955 | 0.60 | 1015 | 0.70 | 1075 | 0.80 | 1130 | 0.90 |
| 1600 | 735 | 0.35 | 795 | 0.40 | 860 | 0.50 | 920 | 0.60 | 980 | 0.65 | 1040 | 0.75 | 1095 | 0.90 | 1150 | 1.00 |
| 1700 | 775 | 0.40 | 830 | 0.50 | 890 | 0.55 | 950 | 0.65 | 1005 | 0.75 | 1060 | 0.85 | 1115 | 0.95 | 1165 | 1.05 |
| 1800 | 815 | 0.50 | 870 | 0.55 | 925 | 0.65 | 980 | 0.75 | 1030 | 0.80 | 1085 | 0.90 | 1135 | 1.00 | 1190 | 1.15 |
| 1900 | 850 | 0.55 | 905 | 0.65 | 955 | 0.70 | 1010 | 0.80 | 1060 | 0.90 | 1110 | 1.00 | 1160 | 1.10 | 1210 | 1.25 |
| 2000 | 890 | 0.65 | 940 | 0.70 | 990 | 0.80 | 1040 | 0.90 | 1090 | 1.00 | 1140 | 1.10 | 1185 | 1.20 | 1235 | 1.35 |

**0.90 to 1.60 in. w.g.** — **4 Ton Basic Efficiency (Down-Flow)** — **TGA048B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **High Static - Drive Kit #6** | | | | | | | | | | | | **Field Furnished** | | | |
| 1200 | 1140 | 0.85 | 1195 | 1.00 | 1250 | 1.10 | 1300 | 1.25 | 1345 | 1.35 | 1390 | 1.50 | 1435 | 1.65 | 1480 | 1.80 |
| 1300 | 1155 | 0.90 | 1210 | 1.05 | 1260 | 1.15 | 1310 | 1.30 | 1355 | 1.40 | 1400 | 1.55 | 1445 | 1.70 | 1490 | 1.85 |
| 1400 | 1170 | 1.00 | 1220 | 1.10 | 1270 | 1.20 | 1320 | 1.35 | 1370 | 1.50 | 1415 | 1.65 | 1460 | 1.75 | 1500 | 1.90 |
| 1500 | 1185 | 1.05 | 1235 | 1.15 | 1285 | 1.30 | 1335 | 1.40 | 1380 | 1.55 | 1425 | 1.70 | 1470 | 1.85 | 1510 | 2.00 |
| 1600 | 1200 | 1.10 | 1250 | 1.25 | 1300 | 1.35 | 1345 | 1.50 | 1395 | 1.65 | 1440 | 1.80 | 1480 | 1.90 | 1525 | 2.05 |
| 1700 | 1220 | 1.20 | 1270 | 1.30 | 1315 | 1.45 | 1360 | 1.55 | 1405 | 1.70 | 1450 | 1.85 | 1495 | 2.00 | 1535 | 2.15 |
| 1800 | 1235 | 1.25 | 1285 | 1.40 | 1335 | 1.55 | 1380 | 1.65 | 1420 | 1.80 | 1465 | 1.95 | 1510 | 2.10 | 1550 | 2.25 |
| 1900 | 1260 | 1.35 | 1305 | 1.50 | 1350 | 1.60 | 1395 | 1.75 | 1440 | 1.90 | 1480 | 2.05 | 1525 | 2.20 | 1565 | 2.35 |
| 2000 | 1280 | 1.45 | 1325 | 1.60 | 1370 | 1.70 | 1415 | 1.85 | 1455 | 2.00 | 1500 | 2.15 | 1540 | 2.30 | 1580 | 2.45 |

**0.10 to 0.80 in. w.g.** — **4 Ton Basic Efficiency (Horizontal)** — **TGA048B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | | | **Low Static - Drive Kit #2** | | | | | | | | | |
| 1200 | 580 | 0.20 | 655 | 0.20 | 725 | 0.30 | 790 | 0.35 | 855 | 0.40 | 915 | 0.45 | 975 | 0.55 | 1030 | 0.60 |
| 1300 | 620 | 0.20 | 685 | 0.25 | 750 | 0.30 | 815 | 0.40 | 875 | 0.45 | 935 | 0.50 | 990 | 0.60 | 1045 | 0.65 |
| 1400 | 655 | 0.25 | 720 | 0.30 | 780 | 0.35 | 840 | 0.45 | 895 | 0.50 | 955 | 0.55 | 1010 | 0.65 | 1060 | 0.70 |
| 1500 | 695 | 0.30 | 750 | 0.35 | 810 | 0.45 | 865 | 0.50 | 920 | 0.55 | 975 | 0.65 | 1025 | 0.70 | 1080 | 0.80 |
| 1600 | 735 | 0.35 | 790 | 0.45 | 840 | 0.50 | 895 | 0.55 | 945 | 0.65 | 1000 | 0.70 | 1050 | 0.80 | 1100 | 0.85 |
| 1700 | 775 | 0.45 | 825 | 0.50 | 875 | 0.55 | 925 | 0.65 | 975 | 0.70 | 1025 | 0.80 | 1070 | 0.85 | 1120 | 0.95 |
| 1800 | 815 | 0.50 | 860 | 0.60 | 910 | 0.65 | 955 | 0.70 | 1005 | 0.80 | 1050 | 0.85 | 1095 | 0.95 | 1140 | 1.05 |
| 1900 | 855 | 0.60 | 900 | 0.65 | 945 | 0.75 | 990 | 0.80 | 1035 | 0.90 | 1080 | 0.95 | 1125 | 1.05 | 1165 | 1.15 |
| 2000 | 895 | 0.70 | 935 | 0.75 | 980 | 0.85 | 1020 | 0.90 | 1065 | 1.00 | 1110 | 1.05 | 1150 | 1.15 | 1190 | 1.25 |

**0.90 to 1.60 in. w.g.** — **4 Ton Basic Efficiency (Horizontal)** — **TGA048B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Kit 2** | | **High Static - Drive Kit #6** | | | | | | | | | | | | | |
| 1200 | 1085 | 0.70 | 1135 | 0.75 | 1185 | 0.85 | 1230 | 0.95 | 1275 | 1.05 | 1320 | 1.15 | 1360 | 1.25 | 1405 | 1.35 |
| 1300 | 1095 | 0.75 | 1145 | 0.80 | 1195 | 0.90 | 1240 | 1.00 | 1285 | 1.10 | 1330 | 1.20 | 1370 | 1.30 | 1410 | 1.40 |
| 1400 | 1110 | 0.80 | 1160 | 0.90 | 1205 | 0.95 | 1255 | 1.05 | 1295 | 1.15 | 1340 | 1.25 | 1380 | 1.35 | 1420 | 1.45 |
| 1500 | 1125 | 0.85 | 1175 | 0.95 | 1220 | 1.05 | 1265 | 1.15 | 1310 | 1.25 | 1350 | 1.35 | 1395 | 1.45 | 1435 | 1.55 |
| 1600 | 1145 | 0.95 | 1190 | 1.05 | 1235 | 1.15 | 1280 | 1.20 | 1325 | 1.35 | 1365 | 1.40 | 1405 | 1.55 | 1445 | 1.65 |
| 1700 | 1165 | 1.05 | 1210 | 1.10 | 1255 | 1.20 | 1295 | 1.30 | 1340 | 1.40 | 1380 | 1.50 | 1420 | 1.60 | 1455 | 1.70 |
| 1800 | 1185 | 1.10 | 1230 | 1.20 | 1270 | 1.30 | 1315 | 1.40 | 1355 | 1.50 | 1395 | 1.60 | 1435 | 1.75 | 1470 | 1.85 |
| 1900 | 1210 | 1.25 | 1250 | 1.30 | 1290 | 1.40 | 1335 | 1.50 | 1370 | 1.60 | 1410 | 1.70 | 1450 | 1.85 | 1485 | 1.95 |
| 2000 | 1235 | 1.35 | 1275 | 1.45 | 1315 | 1.55 | 1355 | 1.65 | 1390 | 1.75 | 1430 | 1.85 | 1465 | 1.95 | 1505 | 2.05 |

## BLOWER DATA - BELT DRIVE — 4 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **4 Ton Standard Efficiency (Down-Flow)** — **TGA048S**

| Air Volume (cfm) | External Static (in.w.g.) 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | **Low Static - Drive Kit #2** | | | | | | | | | | | |
| 1200 | 600 | 0.20 | 680 | 0.25 | 755 | 0.30 | 830 | 0.35 | 900 | 0.45 | 965 | 0.55 | 1025 | 0.65 | 1085 | 0.75 |
| 1300 | 640 | 0.20 | 710 | 0.25 | 780 | 0.35 | 850 | 0.40 | 915 | 0.50 | 980 | 0.60 | 1040 | 0.70 | 1100 | 0.80 |
| 1400 | 675 | 0.25 | 745 | 0.30 | 810 | 0.40 | 875 | 0.45 | 940 | 0.55 | 1000 | 0.65 | 1060 | 0.75 | 1115 | 0.85 |
| 1500 | 715 | 0.30 | 780 | 0.35 | 840 | 0.45 | 900 | 0.50 | 960 | 0.60 | 1020 | 0.70 | 1080 | 0.80 | 1135 | 0.90 |
| 1600 | 755 | 0.35 | 815 | 0.45 | 870 | 0.50 | 930 | 0.60 | 985 | 0.65 | 1045 | 0.75 | 1100 | 0.85 | 1150 | 0.95 |
| 1700 | 795 | 0.45 | 850 | 0.50 | 905 | 0.55 | 960 | 0.65 | 1015 | 0.75 | 1070 | 0.85 | 1120 | 0.95 | 1170 | 1.05 |
| 1800 | 835 | 0.50 | 885 | 0.60 | 940 | 0.65 | 990 | 0.75 | 1045 | 0.80 | 1095 | 0.90 | 1145 | 1.00 | 1195 | 1.15 |
| 1900 | 880 | 0.60 | 925 | 0.65 | 975 | 0.75 | 1025 | 0.80 | 1075 | 0.90 | 1120 | 1.00 | 1170 | 1.10 | 1220 | 1.20 |
| 2000 | 920 | 0.70 | 965 | 0.75 | 1010 | 0.85 | 1055 | 0.90 | 1105 | 1.00 | 1150 | 1.10 | 1195 | 1.20 | 1245 | 1.35 |

**0.90 to 1.60 in. w.g.** — **4 Ton Standard Efficiency (Down-Flow)** — **TGA048S**

| Air Volume (cfm) | External Static (in.w.g.) 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **High Static - Drive Kit #6** | | | | | | | | | | | | | | **Field** | |
| 1200 | 1140 | 0.85 | 1195 | 0.95 | 1245 | 1.05 | 1295 | 1.20 | 1340 | 1.30 | 1385 | 1.40 | 1430 | 1.55 | 1470 | 1.65 |
| 1300 | 1155 | 0.90 | 1205 | 1.00 | 1260 | 1.10 | 1305 | 1.25 | 1350 | 1.35 | 1395 | 1.50 | 1440 | 1.60 | 1480 | 1.75 |
| 1400 | 1170 | 0.95 | 1220 | 1.05 | 1270 | 1.15 | 1320 | 1.30 | 1365 | 1.40 | 1410 | 1.55 | 1455 | 1.70 | 1495 | 1.80 |
| 1500 | 1185 | 1.00 | 1235 | 1.10 | 1285 | 1.25 | 1335 | 1.35 | 1380 | 1.50 | 1425 | 1.65 | 1465 | 1.75 | 1510 | 1.90 |
| 1600 | 1205 | 1.10 | 1255 | 1.20 | 1300 | 1.30 | 1350 | 1.45 | 1395 | 1.60 | 1435 | 1.70 | 1480 | 1.85 | 1520 | 2.00 |
| 1700 | 1220 | 1.15 | 1270 | 1.25 | 1320 | 1.40 | 1365 | 1.55 | 1410 | 1.65 | 1450 | 1.80 | 1495 | 1.95 | 1535 | 2.05 |
| 1800 | 1245 | 1.25 | 1290 | 1.35 | 1335 | 1.50 | 1380 | 1.60 | 1425 | 1.75 | 1465 | 1.90 | 1510 | 2.05 | 1550 | 2.15 |
| 1900 | 1265 | 1.35 | 1310 | 1.45 | 1355 | 1.60 | 1400 | 1.70 | 1440 | 1.85 | 1485 | 2.00 | 1525 | 2.15 | 1565 | 2.30 |
| 2000 | 1290 | 1.45 | 1330 | 1.55 | 1375 | 1.70 | 1420 | 1.80 | 1460 | 1.95 | 1500 | 2.10 | 1540 | 2.25 | 1580 | 2.40 |

**0.10 to 0.80 in. w.g.** — **4 Ton Standard Efficiency (Horizontal)** — **TGA048S**

| Air Volume (cfm) | External Static (in.w.g.) 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | | | **Low Static - Drive Kit #2** | | | | | | | | | |
| 1200 | 590 | 0.20 | 665 | 0.25 | 735 | 0.30 | 805 | 0.35 | 870 | 0.40 | 930 | 0.50 | 990 | 0.55 | 1050 | 0.65 |
| 1300 | 630 | 0.20 | 695 | 0.25 | 760 | 0.35 | 825 | 0.40 | 890 | 0.45 | 950 | 0.55 | 1010 | 0.65 | 1065 | 0.70 |
| 1400 | 670 | 0.25 | 730 | 0.30 | 790 | 0.40 | 850 | 0.45 | 910 | 0.50 | 970 | 0.60 | 1025 | 0.70 | 1080 | 0.75 |
| 1500 | 710 | 0.35 | 765 | 0.40 | 820 | 0.45 | 880 | 0.50 | 935 | 0.60 | 990 | 0.65 | 1045 | 0.75 | 1095 | 0.85 |
| 1600 | 750 | 0.40 | 800 | 0.45 | 855 | 0.50 | 910 | 0.60 | 960 | 0.65 | 1015 | 0.75 | 1065 | 0.80 | 1115 | 0.90 |
| 1700 | 790 | 0.45 | 840 | 0.50 | 890 | 0.60 | 940 | 0.65 | 990 | 0.75 | 1040 | 0.80 | 1090 | 0.90 | 1135 | 1.00 |
| 1800 | 830 | 0.55 | 875 | 0.60 | 925 | 0.65 | 970 | 0.75 | 1020 | 0.80 | 1065 | 0.90 | 1115 | 1.00 | 1160 | 1.10 |
| 1900 | 870 | 0.65 | 915 | 0.70 | 960 | 0.75 | 1005 | 0.85 | 1050 | 0.90 | 1095 | 1.00 | 1140 | 1.10 | 1185 | 1.20 |
| 2000 | 915 | 0.75 | 955 | 0.80 | 995 | 0.85 | 1040 | 0.95 | 1080 | 1.00 | 1125 | 1.10 | 1165 | 1.20 | 1210 | 1.30 |

**0.90 to 1.60 in. w.g.** — **4 Ton Standard Efficiency (Horizontal)** — **TGA048S**

| Air Volume (cfm) | External Static (in.w.g.) 0.90 | | 1.0 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Kit #2** | | **High Static - Drive Kit #6** | | | | | | | | | | | | | |
| 1200 | 1105 | 0.75 | 1155 | 0.85 | 1205 | 0.95 | 1255 | 1.05 | 1300 | 1.15 | 1340 | 1.25 | 1385 | 1.35 | 1425 | 1.45 |
| 1300 | 1115 | 0.80 | 1165 | 0.90 | 1215 | 1.00 | 1265 | 1.10 | 1310 | 1.20 | 1355 | 1.30 | 1395 | 1.40 | 1435 | 1.55 |
| 1400 | 1130 | 0.85 | 1180 | 0.95 | 1230 | 1.05 | 1275 | 1.15 | 1320 | 1.25 | 1365 | 1.40 | 1405 | 1.50 | 1450 | 1.60 |
| 1500 | 1145 | 0.90 | 1195 | 1.00 | 1245 | 1.15 | 1290 | 1.25 | 1335 | 1.35 | 1375 | 1.45 | 1420 | 1.55 | 1460 | 1.70 |
| 1600 | 1165 | 1.00 | 1210 | 1.10 | 1260 | 1.20 | 1305 | 1.30 | 1345 | 1.40 | 1390 | 1.55 | 1430 | 1.65 | 1470 | 1.75 |
| 1700 | 1185 | 1.10 | 1230 | 1.20 | 1275 | 1.30 | 1320 | 1.40 | 1360 | 1.50 | 1405 | 1.60 | 1445 | 1.75 | 1485 | 1.85 |
| 1800 | 1205 | 1.15 | 1250 | 1.25 | 1295 | 1.40 | 1335 | 1.50 | 1380 | 1.60 | 1420 | 1.70 | 1460 | 1.85 | 1500 | 1.95 |
| 1900 | 1225 | 1.25 | 1270 | 1.35 | 1315 | 1.50 | 1355 | 1.60 | 1395 | 1.70 | 1435 | 1.80 | 1475 | 1.95 | 1515 | 2.10 |
| 2000 | 1250 | 1.40 | 1295 | 1.50 | 1335 | 1.60 | 1375 | 1.70 | 1415 | 1.80 | 1455 | 1.95 | 1490 | 2.05 | 1530 | 2.20 |

## BLOWER DATA - BELT DRIVE — 5 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **5 Ton Basic Efficiency (Down-Flow)** — **TGA060B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | **Low Static - Drive Kit #3** | | | | | | | | | | | |
| 1600 | 730 | 0.35 | 785 | 0.40 | 840 | 0.45 | 895 | 0.50 | 945 | 0.55 | 1000 | 0.60 | 1045 | 0.70 | 1095 | 0.75 |
| 1700 | 770 | 0.40 | 825 | 0.45 | 875 | 0.50 | 925 | 0.55 | 975 | 0.60 | 1025 | 0.70 | 1070 | 0.75 | 1115 | 0.85 |
| 1800 | 810 | 0.45 | 860 | 0.50 | 910 | 0.55 | 955 | 0.65 | 1005 | 0.70 | 1050 | 0.75 | 1095 | 0.85 | 1140 | 0.90 |
| 1900 | 850 | 0.55 | 895 | 0.60 | 945 | 0.65 | 990 | 0.70 | 1035 | 0.80 | 1080 | 0.85 | 1125 | 0.95 | 1165 | 1.00 |
| 2000 | 890 | 0.60 | 935 | 0.70 | 980 | 0.75 | 1025 | 0.80 | 1065 | 0.85 | 1110 | 0.95 | 1150 | 1.00 | 1190 | 1.10 |
| 2100 | 930 | 0.70 | 970 | 0.75 | 1015 | 0.85 | 1055 | 0.90 | 1100 | 1.00 | 1140 | 1.05 | 1180 | 1.10 | 1220 | 1.20 |
| 2200 | 970 | 0.80 | 1010 | 0.85 | 1050 | 0.95 | 1090 | 1.00 | 1130 | 1.10 | 1170 | 1.15 | 1210 | 1.25 | 1250 | 1.30 |
| 2300 | 1010 | 0.90 | 1050 | 1.00 | 1090 | 1.05 | 1125 | 1.10 | 1165 | 1.20 | 1205 | 1.30 | 1240 | 1.35 | 1280 | 1.45 |
| 2400 | 1050 | 1.05 | 1090 | 1.10 | 1125 | 1.15 | 1165 | 1.25 | 1200 | 1.35 | 1235 | 1.40 | 1270 | 1.50 | 1310 | 1.60 |

**0.90 to 1.60 in. w.g.** — **5 Ton Basic Efficiency (Down-Flow)** — **TGA060B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Low Static - Drive Kit #3** | | | | | | **High Static - Drive Kit #7** | | | | | | | | | |
| 1600 | 1140 | 0.85 | 1185 | 0.90 | 1225 | 0.95 | 1265 | 1.05 | 1310 | 1.15 | 1345 | 1.20 | 1385 | 1.30 | 1420 | 1.40 |
| 1700 | 1160 | 0.90 | 1205 | 1.00 | 1245 | 1.05 | 1285 | 1.15 | 1325 | 1.20 | 1365 | 1.30 | 1400 | 1.40 | 1440 | 1.50 |
| 1800 | 1185 | 1.00 | 1225 | 1.05 | 1265 | 1.15 | 1305 | 1.20 | 1345 | 1.30 | 1380 | 1.40 | 1420 | 1.50 | 1455 | 1.55 |
| 1900 | 1205 | 1.05 | 1250 | 1.15 | 1285 | 1.25 | 1325 | 1.30 | 1365 | 1.40 | 1400 | 1.50 | 1435 | 1.60 | 1475 | 1.70 |
| 2000 | 1230 | 1.15 | 1270 | 1.25 | 1310 | 1.35 | 1350 | 1.45 | 1385 | 1.50 | 1420 | 1.60 | 1455 | 1.70 | 1490 | 1.80 |
| 2100 | 1260 | 1.30 | 1295 | 1.35 | 1335 | 1.45 | 1370 | 1.55 | 1405 | 1.60 | 1445 | 1.75 | 1475 | 1.80 | 1510 | 1.90 |
| 2200 | 1285 | 1.40 | 1325 | 1.50 | 1360 | 1.60 | 1395 | 1.65 | 1430 | 1.75 | 1465 | 1.85 | 1500 | 1.95 | 1530 | 2.05 |
| 2300 | 1315 | 1.55 | 1350 | 1.60 | 1385 | 1.70 | 1420 | 1.80 | 1455 | 1.90 | 1490 | 2.00 | 1520 | 2.10 | 1555 | 2.20 |
| 2400 | 1345 | 1.65 | 1380 | 1.75 | 1415 | 1.85 | 1445 | 1.95 | 1480 | 2.05 | 1515 | 2.15 | 1545 | 2.25 | 1575 | 2.30 |

**0.10 to 0.80 in. w.g.** — **5 Ton Basic Efficiency (Horizontal)** — **TGA060B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | **Low Static - Drive Kit #3** | | | | | | | | | | | |
| 1600 | 720 | 0.35 | 780 | 0.40 | 835 | 0.45 | 895 | 0.55 | 955 | 0.65 | 1010 | 0.70 | 1065 | 0.80 | 1120 | 0.90 |
| 1700 | 760 | 0.40 | 815 | 0.50 | 870 | 0.55 | 925 | 0.60 | 975 | 0.70 | 1030 | 0.80 | 1085 | 0.90 | 1140 | 1.00 |
| 1800 | 800 | 0.50 | 850 | 0.55 | 900 | 0.60 | 950 | 0.70 | 1005 | 0.80 | 1055 | 0.85 | 1105 | 0.95 | 1155 | 1.05 |
| 1900 | 840 | 0.55 | 885 | 0.65 | 935 | 0.70 | 980 | 0.75 | 1030 | 0.85 | 1080 | 0.95 | 1130 | 1.05 | 1180 | 1.15 |
| 2000 | 880 | 0.65 | 920 | 0.70 | 970 | 0.80 | 1015 | 0.85 | 1060 | 0.95 | 1105 | 1.05 | 1155 | 1.15 | 1200 | 1.25 |
| 2100 | 920 | 0.75 | 960 | 0.80 | 1000 | 0.90 | 1045 | 0.95 | 1090 | 1.05 | 1135 | 1.15 | 1180 | 1.25 | 1225 | 1.35 |
| 2200 | 955 | 0.85 | 995 | 0.90 | 1040 | 1.00 | 1080 | 1.10 | 1120 | 1.15 | 1165 | 1.25 | 1205 | 1.35 | 1250 | 1.45 |
| 2300 | 995 | 0.95 | 1035 | 1.05 | 1075 | 1.10 | 1115 | 1.20 | 1155 | 1.30 | 1195 | 1.40 | 1235 | 1.50 | 1275 | 1.60 |
| 2400 | 1040 | 1.10 | 1075 | 1.15 | 1110 | 1.25 | 1150 | 1.35 | 1185 | 1.40 | 1225 | 1.50 | 1265 | 1.65 | 1305 | 1.75 |

**0.90 to 1.60 in. w.g.** — **5 Ton Basic Efficiency (Horizontal)** — **TGA060B**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Low Static - Drive Kit #3** | | | | | | **High Static - Drive Kit #7** | | | | | | | | | |
| 1600 | 1175 | 1.05 | 1225 | 1.15 | 1275 | 1.25 | 1325 | 1.40 | 1370 | 1.55 | 1415 | 1.65 | 1460 | 1.80 | 1500 | 1.95 |
| 1700 | 1190 | 1.10 | 1240 | 1.20 | 1290 | 1.35 | 1335 | 1.45 | 1380 | 1.60 | 1425 | 1.75 | 1470 | 1.90 | 1510 | 2.00 |
| 1800 | 1205 | 1.20 | 1255 | 1.30 | 1300 | 1.40 | 1350 | 1.55 | 1395 | 1.70 | 1435 | 1.80 | 1480 | 1.95 | 1520 | 2.10 |
| 1900 | 1225 | 1.25 | 1270 | 1.40 | 1320 | 1.50 | 1365 | 1.65 | 1405 | 1.75 | 1450 | 1.90 | 1495 | 2.05 | 1535 | 2.20 |
| 2000 | 1245 | 1.35 | 1290 | 1.50 | 1335 | 1.60 | 1380 | 1.75 | 1420 | 1.85 | 1465 | 2.00 | 1505 | 2.15 | 1545 | 2.30 |
| 2100 | 1270 | 1.50 | 1310 | 1.60 | 1355 | 1.70 | 1395 | 1.85 | 1440 | 2.00 | 1480 | 2.10 | 1520 | 2.25 | 1560 | 2.40 |
| 2200 | 1290 | 1.60 | 1335 | 1.70 | 1375 | 1.85 | 1415 | 1.95 | 1455 | 2.10 | 1495 | 2.25 | 1535 | 2.40 | 1575 | 2.55 |
| 2300 | 1315 | 1.70 | 1355 | 1.85 | 1395 | 1.95 | 1435 | 2.10 | 1475 | 2.20 | 1515 | 2.35 | 1555 | 2.50 | 1590 | 2.65 |
| 2400 | 1340 | 1.85 | 1380 | 1.95 | 1420 | 2.10 | 1460 | 2.25 | 1495 | 2.35 | 1535 | 2.50 | 1570 | 2.65 | 1610 | 2.80 |

## BLOWER DATA - BELT DRIVE — 5 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.
FOR ALL UNITS ADD:
1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23
2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23
Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **5 Ton Standard Efficiency (Down-Flow)** — **TGA060S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | Field Furnished | | | | Low Static - Drive Kit #3 | | | | | | | | | | | |
| 1600 | 765 | 0.35 | 820 | 0.40 | 870 | 0.45 | 925 | 0.55 | 975 | 0.60 | 1025 | 0.65 | 1075 | 0.70 | 1120 | 0.80 |
| 1700 | 805 | 0.45 | 855 | 0.50 | 905 | 0.55 | 955 | 0.60 | 1005 | 0.65 | 1055 | 0.75 | 1100 | 0.80 | 1145 | 0.85 |
| 1800 | 850 | 0.50 | 895 | 0.55 | 945 | 0.60 | 990 | 0.70 | 1035 | 0.75 | 1080 | 0.80 | 1125 | 0.90 | 1170 | 0.95 |
| 1900 | 890 | 0.60 | 935 | 0.65 | 980 | 0.70 | 1025 | 0.75 | 1070 | 0.85 | 1115 | 0.90 | 1155 | 1.00 | 1200 | 1.05 |
| 2000 | 935 | 0.70 | 975 | 0.75 | 1020 | 0.80 | 1060 | 0.85 | 1100 | 0.95 | 1145 | 1.00 | 1185 | 1.10 | 1225 | 1.15 |
| 2100 | 975 | 0.80 | 1015 | 0.85 | 1055 | 0.90 | 1095 | 0.95 | 1135 | 1.05 | 1175 | 1.10 | 1215 | 1.20 | 1255 | 1.25 |
| 2200 | 1020 | 0.90 | 1055 | 0.95 | 1095 | 1.00 | 1135 | 1.10 | 1170 | 1.15 | 1210 | 1.25 | 1250 | 1.30 | 1285 | 1.40 |
| 2300 | 1060 | 1.00 | 1095 | 1.10 | 1135 | 1.15 | 1170 | 1.20 | 1210 | 1.30 | 1245 | 1.35 | 1280 | 1.45 | 1320 | 1.55 |
| 2400 | 1105 | 1.15 | 1140 | 1.20 | 1175 | 1.30 | 1210 | 1.35 | 1245 | 1.45 | 1280 | 1.50 | 1315 | 1.60 | 1350 | 1.70 |

**0.90 to 1.60 in. w.g.** — **5 Ton Standard Efficiency (Down-Flow)** — **TGA060S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | Drive Kit #3 | | | | High Static - Drive Kit #7 | | | | | | | | | | | |
| 1600 | 1165 | 0.85 | 1210 | 0.95 | 1255 | 1.05 | 1295 | 1.10 | 1335 | 1.20 | 1375 | 1.30 | 1415 | 1.35 | 1450 | 1.45 |
| 1700 | 1190 | 0.95 | 1235 | 1.05 | 1275 | 1.10 | 1315 | 1.20 | 1355 | 1.30 | 1395 | 1.35 | 1430 | 1.45 | 1470 | 1.55 |
| 1800 | 1215 | 1.05 | 1255 | 1.10 | 1295 | 1.20 | 1335 | 1.30 | 1375 | 1.40 | 1415 | 1.45 | 1450 | 1.55 | 1485 | 1.65 |
| 1900 | 1240 | 1.15 | 1280 | 1.20 | 1320 | 1.30 | 1360 | 1.40 | 1395 | 1.50 | 1435 | 1.60 | 1470 | 1.65 | 1505 | 1.75 |
| 2000 | 1265 | 1.25 | 1305 | 1.30 | 1345 | 1.40 | 1380 | 1.50 | 1420 | 1.60 | 1455 | 1.70 | 1490 | 1.80 | 1525 | 1.90 |
| 2100 | 1295 | 1.35 | 1335 | 1.45 | 1370 | 1.55 | 1405 | 1.60 | 1445 | 1.70 | 1480 | 1.80 | 1515 | 1.90 | 1550 | 2.00 |
| 2200 | 1325 | 1.50 | 1360 | 1.55 | 1395 | 1.65 | 1435 | 1.75 | 1470 | 1.85 | 1505 | 1.95 | 1535 | 2.05 | 1570 | 2.15 |
| 2300 | 1355 | 1.60 | 1390 | 1.70 | 1425 | 1.80 | 1460 | 1.90 | 1495 | 2.00 | 1530 | 2.10 | 1560 | 2.20 | 1595 | 2.30 |
| 2400 | 1385 | 1.75 | 1420 | 1.85 | 1455 | 1.95 | 1490 | 2.05 | 1520 | 2.15 | 1555 | 2.25 | 1585 | 2.35 | 1620 | 2.45 |

**0.10 to 0.80 in. w.g.** — **5 Ton Standard Efficiency (Horizontal)** — **TGA060S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | Field Furnished | | | | Low Static - Drive Kit #3 | | | | | | | | | | | |
| 1600 | 750 | 0.35 | 805 | 0.40 | 865 | 0.50 | 925 | 0.55 | 980 | 0.65 | 1040 | 0.75 | 1095 | 0.85 | 1150 | 0.95 |
| 1700 | 790 | 0.45 | 845 | 0.50 | 900 | 0.55 | 955 | 0.65 | 1010 | 0.75 | 1065 | 0.80 | 1115 | 0.90 | 1170 | 1.05 |
| 1800 | 830 | 0.50 | 880 | 0.55 | 930 | 0.65 | 985 | 0.70 | 1035 | 0.80 | 1090 | 0.90 | 1140 | 1.00 | 1190 | 1.10 |
| 1900 | 870 | 0.60 | 920 | 0.65 | 965 | 0.75 | 1015 | 0.80 | 1065 | 0.90 | 1115 | 1.00 | 1165 | 1.10 | 1210 | 1.20 |
| 2000 | 910 | 0.70 | 955 | 0.75 | 1005 | 0.85 | 1050 | 0.90 | 1095 | 1.00 | 1145 | 1.10 | 1190 | 1.20 | 1235 | 1.30 |
| 2100 | 955 | 0.80 | 995 | 0.85 | 1040 | 0.95 | 1085 | 1.00 | 1130 | 1.10 | 1175 | 1.20 | 1220 | 1.30 | 1260 | 1.40 |
| 2200 | 995 | 0.90 | 1035 | 0.95 | 1075 | 1.05 | 1120 | 1.15 | 1160 | 1.20 | 1205 | 1.30 | 1245 | 1.40 | 1290 | 1.55 |
| 2300 | 1035 | 1.00 | 1075 | 1.10 | 1115 | 1.15 | 1155 | 1.25 | 1195 | 1.35 | 1235 | 1.45 | 1275 | 1.55 | 1320 | 1.65 |
| 2400 | 1080 | 1.15 | 1115 | 1.25 | 1155 | 1.30 | 1190 | 1.40 | 1230 | 1.50 | 1270 | 1.60 | 1310 | 1.70 | 1345 | 1.80 |

**0.90 to 1.60 in. w.g.** — **5 Ton Standard Efficiency (Horizontal)** — **TGA060S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | Drive Kit #3 | | High Static - Drive Kit #7 | | | | | | | | | | | | | |
| 1600 | 1200 | 1.05 | 1250 | 1.20 | 1300 | 1.30 | 1350 | 1.45 | 1395 | 1.55 | 1440 | 1.70 | 1485 | 1.85 | 1525 | 2.00 |
| 1700 | 1220 | 1.15 | 1270 | 1.25 | 1315 | 1.40 | 1365 | 1.50 | 1410 | 1.65 | 1455 | 1.80 | 1495 | 1.90 | 1540 | 2.10 |
| 1800 | 1240 | 1.20 | 1285 | 1.35 | 1335 | 1.45 | 1380 | 1.60 | 1425 | 1.75 | 1470 | 1.90 | 1510 | 2.00 | 1550 | 2.15 |
| 1900 | 1260 | 1.30 | 1305 | 1.45 | 1350 | 1.55 | 1395 | 1.70 | 1440 | 1.85 | 1485 | 1.95 | 1525 | 2.10 | 1565 | 2.25 |
| 2000 | 1280 | 1.40 | 1325 | 1.55 | 1370 | 1.65 | 1415 | 1.80 | 1455 | 1.90 | 1500 | 2.05 | 1540 | 2.20 | 1580 | 2.35 |
| 2100 | 1305 | 1.50 | 1350 | 1.65 | 1390 | 1.75 | 1435 | 1.90 | 1475 | 2.05 | 1515 | 2.20 | 1555 | 2.30 | 1595 | 2.50 |
| 2200 | 1330 | 1.65 | 1375 | 1.75 | 1415 | 1.90 | 1455 | 2.00 | 1495 | 2.15 | 1535 | 2.30 | 1575 | 2.45 | 1615 | 2.60 |
| 2300 | 1360 | 1.80 | 1400 | 1.90 | 1440 | 2.05 | 1480 | 2.15 | 1515 | 2.30 | 1555 | 2.45 | 1595 | 2.60 | 1630 | 2.75 |
| 2400 | 1385 | 1.90 | 1425 | 2.05 | 1465 | 2.20 | 1500 | 2.30 | 1540 | 2.45 | 1580 | 2.60 | 1615 | 2.75 | 1650 | 2.90 |

## BLOWER DATA - BELT DRIVE — 6 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **6 Ton Standard Efficiency (Down-Flow)** — **TGA072S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | | | **Low Static - Drive Kit #4** | | | | | | | | | |
| 1900 | 840 | 0.45 | 885 | 0.50 | 930 | 0.55 | 980 | 0.60 | 1025 | 0.65 | 1070 | 0.70 | 1115 | 0.75 | 1155 | 0.80 |
| 2000 | 875 | 0.55 | 920 | 0.55 | 965 | 0.60 | 1010 | 0.65 | 1055 | 0.75 | 1100 | 0.80 | 1140 | 0.85 | 1180 | 0.90 |
| 2100 | 915 | 0.60 | 960 | 0.65 | 1000 | 0.70 | 1045 | 0.75 | 1085 | 0.80 | 1130 | 0.85 | 1170 | 0.95 | 1210 | 1.00 |
| 2200 | 955 | 0.70 | 995 | 0.75 | 1040 | 0.80 | 1080 | 0.85 | 1120 | 0.90 | 1160 | 0.95 | 1200 | 1.05 | 1235 | 1.10 |
| 2300 | 995 | 0.80 | 1035 | 0.85 | 1075 | 0.90 | 1115 | 0.95 | 1150 | 1.00 | 1190 | 1.05 | 1230 | 1.15 | 1265 | 1.20 |
| 2400 | 1035 | 0.90 | 1075 | 0.95 | 1110 | 1.00 | 1150 | 1.05 | 1185 | 1.10 | 1225 | 1.20 | 1260 | 1.25 | 1295 | 1.30 |
| 2500 | 1075 | 1.00 | 1110 | 1.05 | 1150 | 1.10 | 1185 | 1.15 | 1220 | 1.25 | 1255 | 1.30 | 1290 | 1.35 | 1325 | 1.45 |
| 2600 | 1115 | 1.10 | 1150 | 1.20 | 1185 | 1.25 | 1220 | 1.30 | 1255 | 1.35 | 1290 | 1.45 | 1325 | 1.50 | 1355 | 1.55 |
| 2700 | 1155 | 1.25 | 1190 | 1.30 | 1225 | 1.35 | 1255 | 1.45 | 1290 | 1.50 | 1325 | 1.55 | 1355 | 1.65 | 1390 | 1.70 |
| 2800 | 1195 | 1.40 | 1230 | 1.45 | 1260 | 1.50 | 1295 | 1.60 | 1325 | 1.65 | 1360 | 1.70 | 1390 | 1.80 | 1420 | 1.85 |
| 2900 | 1235 | 1.55 | 1270 | 1.60 | 1300 | 1.65 | 1330 | 1.75 | 1360 | 1.80 | 1395 | 1.90 | 1425 | 1.95 | 1455 | 2.00 |

**0.90 to 1.60 in. w.g.** — **6 Ton Standard Efficiency (Down-Flow)** — **TGA072S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Low Static - Kit #4** | | | | | | | | **High Static - Drive Kit #8** | | | | | | | |
| 1900 | 1200 | 0.90 | 1240 | 0.95 | 1280 | 1.00 | 1320 | 1.05 | 1355 | 1.15 | 1395 | 1.20 | 1430 | 1.25 | 1465 | 1.35 |
| 2000 | 1225 | 0.95 | 1265 | 1.05 | 1300 | 1.10 | 1340 | 1.15 | 1375 | 1.20 | 1410 | 1.30 | 1450 | 1.35 | 1485 | 1.45 |
| 2100 | 1250 | 1.05 | 1285 | 1.10 | 1325 | 1.20 | 1360 | 1.25 | 1400 | 1.35 | 1435 | 1.40 | 1470 | 1.45 | 1500 | 1.55 |
| 2200 | 1275 | 1.15 | 1310 | 1.20 | 1350 | 1.30 | 1385 | 1.35 | 1420 | 1.45 | 1455 | 1.50 | 1490 | 1.60 | 1525 | 1.65 |
| 2300 | 1305 | 1.25 | 1340 | 1.35 | 1375 | 1.40 | 1410 | 1.45 | 1445 | 1.55 | 1480 | 1.60 | 1510 | 1.70 | 1545 | 1.75 |
| 2400 | 1330 | 1.35 | 1365 | 1.45 | 1400 | 1.50 | 1435 | 1.60 | 1470 | 1.65 | 1500 | 1.75 | 1535 | 1.80 | 1565 | 1.90 |
| 2500 | 1360 | 1.50 | 1395 | 1.55 | 1430 | 1.65 | 1460 | 1.70 | 1495 | 1.80 | 1525 | 1.85 | 1560 | 1.95 | 1590 | 2.05 |
| 2600 | 1390 | 1.65 | 1425 | 1.70 | 1455 | 1.80 | 1490 | 1.85 | 1520 | 1.95 | 1550 | 2.00 | 1585 | 2.10 | 1615 | 2.20 |
| 2700 | 1420 | 1.80 | 1455 | 1.85 | 1485 | 1.95 | 1515 | 2.00 | 1550 | 2.10 | 1580 | 2.15 | 1610 | 2.25 | 1640 | 2.35 |
| 2800 | 1455 | 1.95 | 1485 | 2.00 | 1515 | 2.10 | 1545 | 2.15 | 1575 | 2.25 | 1605 | 2.35 | 1635 | 2.40 | 1665 | 2.50 |
| 2900 | 1485 | 2.10 | 1515 | 2.15 | 1545 | 2.25 | 1575 | 2.35 | 1605 | 2.40 | 1635 | 2.50 | 1660 | 2.60 | 1690 | 2.65 |

## BLOWER DATA - BELT DRIVE — 6 TON

Blower tables include resistance for base unit with standard heat, wet indoor coil, & 2 in. disposable air filters in place.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (larger gas heat section, economizer, etc.) See page 23

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.) See page 23

Then determine from table the blower motor output and drive required.

**0.10 to 0.80 in. w.g.** — **6 Ton Standard Efficiency (Horizontal)** — **TGA072S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Field Furnished** | | | | | | | | **Low Static - Drive Kit #4** | | | | | | | |
| 1900 | 795 | 0.45 | 850 | 0.55 | 905 | 0.60 | 960 | 0.70 | 1010 | 0.75 | 1060 | 0.85 | 1110 | 0.90 | 1160 | 1.00 |
| 2000 | 835 | 0.55 | 885 | 0.60 | 935 | 0.70 | 985 | 0.75 | 1035 | 0.85 | 1085 | 0.90 | 1135 | 1.00 | 1180 | 1.10 |
| 2100 | 870 | 0.65 | 920 | 0.70 | 970 | 0.75 | 1015 | 0.85 | 1065 | 0.90 | 1110 | 1.00 | 1160 | 1.10 | 1205 | 1.20 |
| 2200 | 905 | 0.70 | 955 | 0.80 | 1000 | 0.85 | 1045 | 0.95 | 1095 | 1.00 | 1140 | 1.10 | 1185 | 1.20 | 1225 | 1.30 |
| 2300 | 945 | 0.80 | 990 | 0.90 | 1035 | 0.95 | 1080 | 1.05 | 1120 | 1.10 | 1165 | 1.20 | 1210 | 1.30 | 1250 | 1.40 |
| 2400 | 980 | 0.90 | 1025 | 1.00 | 1065 | 1.05 | 1110 | 1.15 | 1150 | 1.25 | 1195 | 1.30 | 1235 | 1.40 | 1275 | 1.50 |
| 2500 | 1020 | 1.05 | 1060 | 1.10 | 1100 | 1.20 | 1140 | 1.25 | 1180 | 1.35 | 1225 | 1.45 | 1265 | 1.55 | 1305 | 1.65 |
| 2600 | 1055 | 1.15 | 1095 | 1.25 | 1135 | 1.30 | 1175 | 1.40 | 1215 | 1.50 | 1255 | 1.60 | 1290 | 1.65 | 1330 | 1.80 |
| 2700 | 1095 | 1.30 | 1130 | 1.35 | 1170 | 1.45 | 1210 | 1.55 | 1245 | 1.60 | 1285 | 1.70 | 1320 | 1.80 | 1360 | 1.95 |
| 2800 | 1130 | 1.45 | 1170 | 1.50 | 1205 | 1.60 | 1240 | 1.70 | 1280 | 1.80 | 1315 | 1.85 | 1350 | 1.95 | 1385 | 2.05 |
| 2900 | 1170 | 1.60 | 1205 | 1.65 | 1240 | 1.75 | 1275 | 1.85 | 1310 | 1.95 | 1345 | 2.05 | 1380 | 2.15 | 1415 | 2.25 |

**0.90 to 1.60 in. w.g.** — **6 Ton Standard Efficiency (Horizontal)** — **TGA072S**

| Air Volume (cfm) | External Static (in.w.g.) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 0.90 | | 1.00 | | 1.10 | | 1.20 | | 1.30 | | 1.40 | | 1.50 | | 1.60 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| | **Low Static - Drive Kit #4** | | | | | | | | **High Static - Drive Kit #8** | | | | | | | |
| 1900 | 1205 | 1.10 | 1250 | 1.20 | 1295 | 1.30 | 1340 | 1.45 | 1380 | 1.55 | 1420 | 1.65 | 1460 | 1.75 | 1500 | 1.90 |
| 2000 | 1225 | 1.20 | 1270 | 1.30 | 1315 | 1.40 | 1355 | 1.50 | 1400 | 1.65 | 1440 | 1.75 | 1475 | 1.85 | 1515 | 2.00 |
| 2100 | 1250 | 1.30 | 1290 | 1.40 | 1335 | 1.50 | 1375 | 1.60 | 1415 | 1.75 | 1455 | 1.85 | 1495 | 2.00 | 1530 | 2.10 |
| 2200 | 1270 | 1.40 | 1310 | 1.50 | 1355 | 1.60 | 1395 | 1.75 | 1435 | 1.85 | 1475 | 1.95 | 1510 | 2.10 | 1550 | 2.20 |
| 2300 | 1295 | 1.50 | 1335 | 1.60 | 1375 | 1.70 | 1415 | 1.85 | 1455 | 1.95 | 1490 | 2.05 | 1530 | 2.20 | **1565** | **2.35** |
| 2400 | 1320 | 1.65 | 1355 | 1.75 | 1395 | 1.85 | 1435 | 1.95 | 1475 | 2.10 | 1510 | 2.20 | **1545** | **2.30** | **1585** | **2.45** |
| 2500 | 1345 | 1.75 | 1380 | 1.85 | 1420 | 2.00 | 1455 | 2.10 | 1495 | 2.20 | **1530** | **2.35** | **1565** | **2.45** | 1600 | 2.60 |
| 2600 | 1370 | 1.90 | 1405 | 2.00 | 1445 | 2.10 | 1480 | 2.25 | **1515** | **2.35** | **1550** | **2.50** | **1585** | **2.60** | 1620 | 2.75 |
| 2700 | 1395 | 2.05 | 1430 | 2.15 | 1470 | 2.25 | **1505** | **2.40** | **1540** | **2.50** | **1575** | **2.65** | 1610 | 2.75 | 1640 | 2.90 |
| 2800 | 1425 | 2.20 | 1460 | 2.30 | **1495** | **2.45** | **1530** | **2.55** | **1565** | **2.70** | 1595 | 2.80 | 1630 | 2.95 | 1665 | 3.05 |
| 2900 | **1450** | **2.35** | **1485** | **2.45** | **1520** | **2.60** | **1555** | **2.70** | **1585** | **2.85** | 1620 | 2.95 | 1655 | 3.10 | 1685 | 3.25 |

Note - **BOLD** - to operate in this range, 3 hp blower motor is required.

## BLOWER DATA

**FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS**

| Motor hp | | RPM Range | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Nominal | Maximum | Drive 1 | Drive 2 | Drive 3 | Drive 4 | Drive 5 | Drive 6 | Drive 7 | Drive 8 |
| 1.5 | 1.7 | 673 - 1010 | 745 - 1117 | 833 - 1250 | 968 - 1340 | 897 - 1346 | 1071 - 1429 | 1212 - 1548 | 1193 - 1591 |
| 2 | 2.3 | | | | | | | | |

*Using total air volume and system static pressure requirements determine from blower performance tables rpm and motor hp required. Maximum usable hp of motors furnished are shown. In Canada, nominal motor hp is also maximum usable motor hp. If motors of comparable hp are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

## BLOWER DATA

### POWER EXHAUST FANS PERFORMANCE

| Return Air System Static Pressure in. w.g. | Air Volume Exhausted - cfm | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | T1PWRE10A | | | | | | T1PWRE10N | | | | | |
| | 208V | | | 230V, 460V and 575V | | | 208V | | | 230V, 460V and 575V | | |
| | Low | Medium | High | Low | Medium | High | Low | Medium | High | Low | Medium | High |
| 0 | 1290 | 1300 | 1320 | 1300 | 1305 | 1295 | 3545 | 3915 | 4230 | 3880 | 4135 | 4340 |
| 0.1 | 1045 | 1055 | 1055 | 1040 | 1050 | 1055 | 2880 | 3215 | 3580 | 3255 | 3550 | 3755 |
| 0.2 | 805 | 805 | 815 | 805 | 810 | 810 | 2290 | 2665 | 3055 | 2710 | 3010 | 3240 |
| 0.3 | 580 | 580 | 600 | 595 | 590 | 585 | 1735 | 2175 | 2605 | 2200 | 2500 | 2770 |
| 0.4 | 390 | 405 | 400 | 405 | 400 | 410 | 1165 | 1660 | 2175 | 1685 | 2010 | 2325 |
| 0.5 | 245 | 315 | 215 | 240 | 255 | 300 | 530 | 1045 | 1710 | 1120 | 1510 | 1885 |
| 0.6 | 155 | 340 | 35 | 90 | 165 | 290 | - - - | 250 | 1160 | 470 | 990 | 1420 |
| 0.7 | 145 | 515 | - - - | - - - | 140 | 400 | - - - | - - - | 470 | - - - | 430 | 915 |

### OPTIONS / ACCESSORIES AIR RESISTANCE - in. w.g.

| Air Volume cfm | Economizer | Gas Heat | |
|---|---|---|---|
| | | Medium Input | High Input |
| 1000 | 0.04 | 0.02 | 0.02 |
| 1200 | 0.04 | 0.02 | 0.02 |
| 1400 | 0.04 | 0.02 | 0.03 |
| 1600 | 0.04 | 0.03 | 0.04 |
| 1800 | 0.05 | 0.03 | 0.05 |
| 2000 | 0.05 | 0.04 | 0.06 |
| 2200 | 0.05 | 0.04 | 0.07 |
| 2400 | 0.05 | 0.05 | 0.08 |
| 2600 | 0.06 | 0.05 | 0.09 |
| 2800 | 0.06 | 0.06 | 0.10 |
| 3000 | 0.06 | 0.07 | 0.11 |

### CEILING DIFFUSERS AIR RESISTANCE (in. w.g.)

| Air Volume cfm | RTD9-65 Step-Down Diffuser | | | FD9-65 Flush Diffuser | RTD11-95 Step-Down Diffuser | | | FD11-95 Flush Diffuser |
|---|---|---|---|---|---|---|---|---|
| | 2 Ends Open | 1 Side & 2 Ends Open | All Ends & Sides Open | | 2 Ends Open | 1 Side & 2 Ends Open | All Ends & Sides Open | |
| 1000 | 0.19 | 0.16 | 0.14 | 0.14 | - - - | - - - | - - - | - - - |
| 1200 | 0.25 | 0.20 | 0.17 | 0.17 | - - - | - - - | - - - | - - - |
| 1400 | 0.33 | 0.26 | 0.20 | 0.20 | - - - | - - - | - - - | - - - |
| 1600 | 0.43 | 0.32 | 0.20 | 0.24 | - - - | - - - | - - - | - - - |
| 1800 | 0.56 | 0.40 | 0.30 | 0.30 | 0.13 | 0.11 | 0.09 | 0.09 |
| 2000 | 0.73 | 0.50 | 0.36 | 0.36 | 0.15 | 0.13 | 0.11 | 0.10 |
| 2200 | 0.95 | 0.63 | 0.44 | 0.44 | 0.18 | 0.15 | 0.12 | 0.12 |
| 2400 | - - - | - - - - | - - - | - - - | 0.21 | 0.18 | 0.15 | 0.14 |
| 2600 | - - - | - - - - | - - - | - - - | 0.24 | 0.21 | 0.18 | 0.17 |
| 2800 | - - - | - - - - | - - - | - - - | 0.27 | 0.24 | 0.21 | 0.20 |
| 3000 | - - - | - - - - | - - - | - - - | 0.32 | 0.29 | 0.25 | 0.25 |

### CEILING DIFFUSER AIR THROW DATA

| Air Volume - cfm | [1] Effective Throw - ft. | |
|---|---|---|
| Model No. | RTD9-65 | FD9-65 |
| 1000 | 10 - 17 | 15 - 20 |
| 1200 | 11 - 18 | 16 - 22 |
| 1400 | 12 - 19 | 17 - 24 |
| 1600 | 12 - 20 | 18 - 25 |
| 1800 | 13 - 21 | 20 - 28 |
| 2000 | 14 - 23 | 21 - 29 |
| 2200 | 16 - 25 | 22 - 30 |
| **Model No.** | **RTD11-95** | **FD11-95** |
| 2600 | 24 - 29 | 19 - 24 |
| 2800 | 25 - 30 | 20 - 28 |
| 3000 | 27 - 33 | 21 - 29 |

[1] Effective throw based on terminal velocities of 75 ft. per minute.

## OUTDOOR SOUND DATA

| [1] Unit Model No. | Octave Band Sound Power Levels dB, re $10^{-12}$ Watts - Center Frequency - HZ | | | | | | | Sound Rating Number (dB) |
|---|---|---|---|---|---|---|---|---|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 036B | 67 | 73 | 74 | 74 | 70 | 67 | 64 | 81 |
| 36S and 048 | 63 | 66 | 71 | 70 | 68 | 62 | 54 | 75 |
| 060 and 072 | 68 | 71 | 78 | 76 | 72 | 68 | 61 | 82 |

[1] Tested according to ARI Standard 270-95 test conditions and ANSI Standard S1.32-1981.

## ELECTRICAL DATA — 3 TON

| BELT OR DIRECT DRIVE BLOWER | | TGA036B | | | | | | TGA036S | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Efficiency | Basic | | | | | | Standard | | | | | | | | | |
| **Voltage - 60hz** | | 208/230V-3ph | | | 460V-3ph | | | 208/230V-1ph | | 208/230V-3ph | | | 460V-3ph | | | 575V-3ph | |
| **Compressor** | Rated Load Amps | 10.3 | | | 4.3 | | | 14.4 | | 9.6 | | | 5.8 | | | 3.8 | |
| | Locked Rotor Amps | 75.0 | | | 40.0 | | | 77.0 | | 75.0 | | | 38.0 | | | 25.0 | |
| **Outdoor Fan Motor** | Full Load Amps | 1.7 | | | 1.1 | | | 1.7 | | 1.7 | | | 1.1 | | | 0.7 | |
| | Locked Rotor Amps | 3.1 | | | 2.2 | | | 3.1 | | 3.1 | | | 2.2 | | | 1.3 | |
| **Power Exhaust Fan** | Horsepower | (1) 3/4 (561) | | | (1) 3/4 (561) | | | (1) 3/4 (561) | | (1) 3/4 (561) | | | (1) 3/4 (561) | | | (1) 3/4 (561) | |
| | Full Load Amps | 5.0 | | | 2.2 | | | 5.0 | | 5.0 | | | 2.2 | | | 1.5 | |
| | Locked Rotor Amps | 7.8 | | | 3.4 | | | 7.8 | | 7.8 | | | 3.4 | | | 2.9 | |
| **Service Outlet 115V GFI** | | 15 | | | 15 | | | 15 | | 15 | | | 15 | | | 15 | |
| **Indoor Blower Motor** | Horsepower | .5 | 1.5 | 2 | .5 | 1.5 | 2 | .5 | 1.5 | .5 | 1.5 | 2 | .5 | 1.5 | 2 | .5 | 1.5 | 2 |
| | Rated Load Amps | 3.1 | 5.7 | 7.5 | 1.5 | 2.8 | 3.4 | 3.1 | 11.5 | 3.1 | 5.7 | 7.5 | 1.5 | 2.8 | 3.4 | 1.5 | 2.4 | 2.7 |
| | Locked Rotor Amps | 6.8 | 40 | 46.9 | 3.8 | 20 | 20.4 | 6.8 | 55 | 6.8 | 40 | 46.9 | 3.8 | 20 | 20.4 | 3.8 | 15 | 16.2 |
| **[1] Maximum Overcurrent Protection** | with power exhaust | 30 | 35 | 35 | 15 | 15 | 15 | 40 | 50 | 30 | 30 | 35 | 15 | 15 | 15 | 15 | 15 | 15 |
| | less power exhaust | 25 | 30 | 30 | 15 | 15 | 15 | 35 | 45 | 25 | 25 | 30 | 15 | 15 | 15 | 15 | 15 | 15 |
| **[2] Minimum Circuit Ampacity** | with power exhaust | 23 | 26 | 28 | 11 | 12 | 13 | 28 | 37 | 22 | 25 | 27 | 13 | 14 | 14 | 9 | 10 | 10 |
| | less power exhaust | 18 | 21 | 23 | 8 | 10 | 10 | 23 | 32 | 17 | 20 | 22 | 10 | 12 | 12 | 8 | 8 | 9 |
| **Disconnect Kit** | Standard Access Door | T1DISC080A-1 | | | | | | T1DISC080A-1 | | | | | | | | | |
| | Hinged | T1DISC080AH1 | | | | | | T1DISC080AH1 | | | | | | | | | |

## ELECTRICAL DATA — 4 TON

| BELT OR DIRECT DRIVE BLOWER | | TGA048B | | | | | | TGA048S | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Efficiency | Basic | | | | | | Standard | | | | | | | | | |
| **Voltage - 60hz** | | 208/230V-3ph | | | 460V-3ph | | | 208/230V-1ph | | 208/230V-3ph | | | 460V-3ph | | | 575V-3ph | |
| **Compressor** | Rated Load Amps | 12.8 | | | 6.4 | | | 20.2 | | 12.2 | | | 6.1 | | | 4.9 | |
| | Locked Rotor Amps | 91.0 | | | 46.0 | | | 137.0 | | 83.1 | | | 41.0 | | | 30.4 | |
| **Outdoor Fan Motor** | Full Load Amps | 1.7 | | | 1.1 | | | 1.7 | | 1.7 | | | 1.1 | | | 0.7 | |
| | Locked Rotor Amps | 3.1 | | | 2.2 | | | 3.1 | | 3.1 | | | 2.2 | | | 1.3 | |
| **Power Exhaust Fan** | Horsepower | (1) 3/4 (561) | | | (1) 3/4 (561) | | | (1) 3/4 (561) | | (1) 3/4 (561) | | | (1) 3/4 (561) | | | (1) 3/4 (561) | |
| | Full Load Amps | 5.0 | | | 2.2 | | | 5.0 | | 5.0 | | | 2.2 | | | 1.5 | |
| | Locked Rotor Amps | 7.8 | | | 3.4 | | | 7.8 | | 7.8 | | | 3.4 | | | 2.9 | |
| **Service Outlet 115V GFI** | | 15 | | | 15 | | | 15 | | 15 | | | 15 | | | 15 | |
| **Indoor Blower Motor** | Horsepower | .5 | 1.5 | 2 | .5 | 1.5 | 2 | .5 | 1.5 | .5 | 1.5 | 2 | .5 | 1.5 | 2 | .5 | 1.5 | 2 |
| | Rated Load Amps | 3.1 | 5.7 | 7.5 | 1.5 | 2.8 | 3.4 | 3.1 | 11.5 | 3.1 | 5.7 | 7.5 | 1.5 | 2.8 | 3.4 | 1.5 | 2.4 | 2.7 |
| | Locked Rotor Amps | 6.8 | 40 | 46.9 | 3.8 | 20 | 20.4 | 6.8 | 55 | 6.8 | 40 | 46.9 | 3.8 | 20 | 20.4 | 3.8 | 15 | 16.2 |
| **[1] Maximum Overcurrent Protection** | with power exhaust | 35 | 40 | 40 | 15 | 20 | 20 | 50 | 60 | 35 | 35 | 40 | 15 | 15 | 20 | 15 | 15 | 15 |
| | less power exhaust | 30 | 35 | 35 | 15 | 15 | 15 | 50 | 50 | 30 | 30 | 35 | 15 | 15 | 15 | 15 | 15 | 15 |
| **[2] Minimum Circuit Ampacity** | with power exhaust | 26 | 29 | 31 | 13 | 15 | 15 | 36 | 44 | 26 | 28 | 30 | 13 | 14 | 15 | 10 | 11 | 11 |
| | less power exhaust | 21 | 24 | 26 | 11 | 12 | 13 | 31 | 39 | 21 | 23 | 25 | 11 | 12 | 13 | 9 | 10 | 10 |
| **Disconnect Kit** | Standard Access Door | T1DISC080A-1 | | | | | | T1DISC080A-1 | | | | | | | | | |
| | Hinged | T1DISC080AH1 | | | | | | T1DISC080AH1 | | | | | | | | | |

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

[1] HACR type breaker or fuse.

[2] Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

## ELECTRICAL DATA — 5 TON

| BELT OR DIRECT DRIVE BLOWER | | TGA060B | | | | | | TGA060S | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Efficiency | Basic | | | | | | Standard | | | | | | | | | |
| **Voltage - 60hz** | | 208/230V-3ph | | | 460V-3ph | | | 208/230V-1ph | | 208/230V-3ph | | | 460V-3ph | | | 575V-3ph | |
| **Compressor** | Rated Load Amps | 18.6 | | | 9.0 | | | 25.3 | | 15.4 | | | 7.1 | | | 5.3 | |
| | Locked Rotor Amps | 128.0 | | | 63.0 | | | 141.0 | | 104.0 | | | 52.0 | | | 36.1 | |
| **Outdoor Fan Motor** | Full Load Amps | 2.4 | | | 1.3 | | | 2.4 | | 2.4 | | | 1.3 | | | 1.0 | |
| | Locked Rotor Amps | 4.7 | | | 2.4 | | | 4.7 | | 4.7 | | | 2.4 | | | 1.9 | |
| **Power Exhaust Fan** | Horsepower | (1) 3/4 (561) | | | (1) 3/4 (561) | | | (1) 3/4 (561) | | (1) 3/4 (561) | | | (1) 3/4 (561) | | | (1) 3/4 (561) | |
| | Full Load Amps | 5.0 | | | 2.2 | | | 5.0 | | 5.0 | | | 2.2 | | | 1.5 | |
| | Locked Rotor Amps | 7.8 | | | 3.4 | | | 7.8 | | 7.8 | | | 3.4 | | | 2.9 | |
| **Service Outlet 115V GFI** | | 15 | | | 15 | | | 15 | | 15 | | | 15 | | | 15 | |
| **Indoor Blower Motor** | Horsepower | .75 | 1.5 | 2 | .75 | 1.5 | 2 | .75 | 1.5 | .75 | 1.5 | 2 | .75 | 1.5 | 2 | .75 | 1.5 | 2 |
| | Rated Load Amps | 4.2 | 5.7 | 7.5 | 2.2 | 2.8 | 3.4 | 4.2 | 11.5 | 4.2 | 5.7 | 7.5 | 2.2 | 2.8 | 3.4 | 2.2 | 2.4 | 2.7 |
| | Locked Rotor Amps | 9.6 | 40 | 46.9 | 5.2 | 20 | 20.4 | 9.6 | 55 | 9.6 | 40 | 46.9 | 5.2 | 20 | 20.4 | 5.2 | 15 | 16.2 |
| [1] **Maximum Overcurrent Protection** | with power exhaust | 50 | 50 | 50 | 25 | 25 | 25 | 60 | 70 | 45 | 45 | 45 | 20 | 20 | 20 | 15 | 15 | 15 |
| | less power exhaust | 45 | 45 | 50 | 20 | 20 | 20 | 60 | 70 | 40 | 40 | 40 | 15 | 20 | 20 | 15 | 15 | 15 |
| [2] **Minimum Circuit Ampacity** | with power exhaust | 35 | 37 | 39 | 17 | 18 | 19 | 44 | 51 | 31 | 33 | 35 | 15 | 16 | 16 | 12 | 12 | 12 |
| | less power exhaust | 30 | 32 | 34 | 15 | 16 | 16 | 39 | 46 | 26 | 28 | 30 | 13 | 13 | 14 | 10 | 10 | 11 |
| **Disconnect Kit** | Standard Access Door | T1DISC080A-1 | | | | | | T1DISC080A-1 | | | | | | | | | |
| | Hinged | T1DISC080AH1 | | | | | | T1DISC080AH1 | | | | | | | | | |

## ELECTRICAL DATA — 6 TON

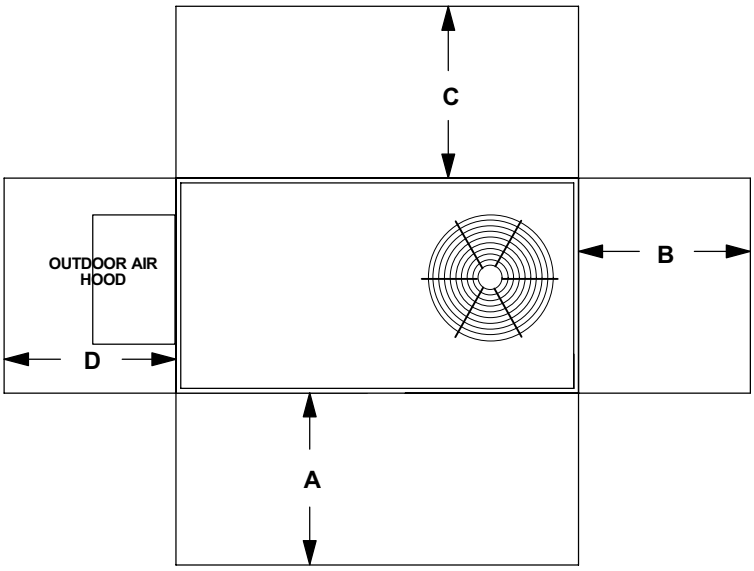
| BELT DRIVE BLOWER | | TGA072S | | | | | |
|---|---|---|---|---|---|---|---|
| | Efficiency | Standard | | | | | |
| **Voltage - 60hz** | | 208/230V-3ph | | 460V-3ph | | 575V-3ph | |
| **Compressor** | Rated Load Amps | 18.6 | | 9.0 | | 7.4 | |
| | Locked Rotor Amps | 156.0 | | 75.0 | | 54.0 | |
| **Outdoor Fan Motor** | Full Load Amps | 2.4 | | 1.3 | | 1.0 | |
| | Locked Rotor Amps | 4.7 | | 2.4 | | 1.9 | |
| **Power Exhaust Fan** | Horsepower | (1) 3/4 (561) | | (1) 3/4 (561) | | (1) 3/4 (561) | |
| | Full Load Amps | 5.0 | | 2.2 | | 1.5 | |
| | Locked Rotor Amps | 7.8 | | 3.4 | | 2.9 | |
| **Service Outlet 115V GFI** | | 15 | | 15 | | 15 | |
| **Indoor Blower Motor** | Horsepower | 1.5 | 2 | 1.5 | 2 | 1.5 | 2 |
| | Rated Load Amps | 5.7 | 7.5 | 2.8 | 3.4 | 2.4 | 2.7 |
| | Locked Rotor Amps | 40 | 46.9 | 20 | 20.4 | 15 | 16.2 |
| [1] **Maximum Overcurrent Protection** | with power exhaust | 50 | 50 | 25 | 25 | 20 | 20 |
| | less power exhaust | 50 | 50 | 20 | 25 | 20 | 20 |
| [2] **Minimum Circuit Ampacity** | with power exhaust | 37 | 39 | 18 | 19 | 15 | 15 |
| | less power exhaust | 32 | 34 | 16 | 16 | 13 | 13 |
| **Disconnect Kit** | Standard Access Door | T1DISC080N-1 | | | | | |
| | Hinged | T1DISC080NH1 | | | | | |

NOTE - Extremes of operating range are plus and minus 10% of line voltage.

1 HACR type breaker or fuse.

2 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

## UNIT CLEARANCES - INCHES (MM)




| [1] Unit Clearance | A | | B | | C | | D | | Top Clearance |
|---|---|---|---|---|---|---|---|---|---|
| | in. | mm | in. | mm | in. | mm | in. | mm | |
| **Service Clearance** | 48 | 1219 | 36 | 914 | 36 | 934 | 36 | 914 | |
| **Clearance to Combustibles** | 36 | 914 | 1 | 25 | 1 | 25 | 1 | 25 | **Unobstructed** |
| **Minimum Operation Clearance** | 36 | 914 | 36 | 914 | 36 | 914 | 36 | 914 | |

NOTE - Entire perimeter of unit base requires support when elevated above the mounting surface.

[1] **Service Clearance** - Required for removal of serviceable parts.
**Clearance to Combustibles** - Required clearance to combustible material.
**Minimum Operation Clearance** - Required clearance for proper unit operation.

## WEIGHT DATA

| Model Number | Net | | | | Shipping | | | |
|---|---|---|---|---|---|---|---|---|
| | Base | | Max. | | Base | | Max. | |
| | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg |
| 036B | 551 | 250 | 651 | 295 | 611 | 277 | 720 | 327 |
| 036S | 547 | 248 | 647 | 293 | 607 | 275 | 716 | 325 |
| 048B | 537 | 244 | 648 | 294 | 597 | 271 | 717 | 325 |
| 048S | 583 | 264 | 694 | 315 | 643 | 292 | 763 | 346 |
| 060B | 557 | 252 | 668 | 303 | 617 | 280 | 737 | 334 |
| 060S | 600 | 272 | 711 | 323 | 660 | 299 | 780 | 354 |
| 072S | 667 | 303 | 765 | 347 | 727 | 330 | 837 | 380 |

Base Unit - The unit with standard heat exchanger NO OPTIONS.
Max. Unit - The unit with ALL OPTIONS Installed. (High Input Heat Exchanger, Economizer, etc.)

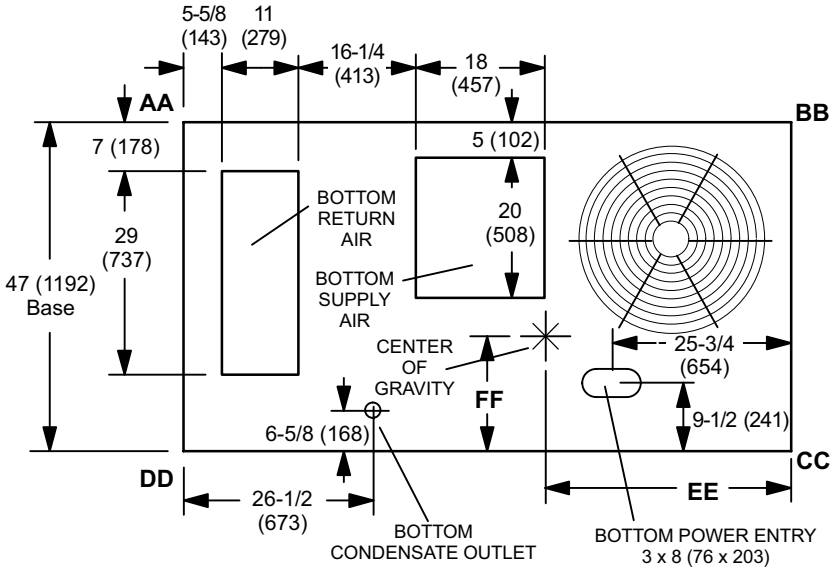
## OPTIONS / ACCESSORIES

| | | Shipping Weights | |
|---|---|---|---|
| | | lbs. | kg |
| **ECONOMIZER / OUTDOOR AIR** | | | |
| **Economizer** | | | |
| Economizer | T1ECON30A-1 | 97 | 47 |
| | T1ECON30N-1 | 109 | 53 |
| **Outdoor Air Hood** | | | |
| Outdoor Air Hood | T1HOOD30A-1 | 26 | 13 |
| | T1HOOD30N-1 | 33 | 16 |
| **OUTDOOR AIR** | | | |
| **Outdoor Air Dampers** | | | |
| Outdoor Air Damper Motorized Kit | T1DAMP11A-1 | 25 | 12 |
| | T1DAMP11N-1 | 29 | 14 |
| Damper Section Manual | T1DAMP21AN1 | 18 | 9 |
| **Power Exhaust** | | | |
| Standard Static | T1PWRE10A-1 | 35 | 17 |
| | T1PWER10N-1 | 39 | 19 |
| **GAS HEAT** | | | |
| | Medium Input | 8 | 4 |
| | High Input | 19 | 9 |
| **ROOF CURBS - DOWN-FLOW** | | | |
| **Cliplock** | | | |
| 8 in. height | T1CURB23AN1 | 78 | 35 |
| | C1CURB40AN1 | 77 | 35 |
| 14 in. height | T1CURB20AN1 | 96 | 44 |
| | C1CURB41AN1 | 95 | 43 |
| 18 in. height | T1CURB21AN1 | 108 | 49 |
| | C1CURB42AN1 | 107 | 49 |
| 24 in. height | T1CURB22AN1 | 126 | 57 |
| | C1CURB43AN1 | 125 | 57 |
| **Standard** | | | |
| 14 in. height | T1CURB10AN1 | 96 | 44 |
| **Hinged** | | | |
| 8 in. height | T1CURB30AN1 | 78 | 35 |
| 18 in. height | T1CURB32AN1 | 108 | 49 |
| 24 in. height | T1CURB33AN1 | 126 | 57 |
| **CEILING DIFFUSERS** | | | |
| Step-Down | RTD9-65 | 67 | 30 |
| | RTD11-95 | 88 | 40 |
| Flush | FD9-65 | 37 | 17 |
| | FD11-95 | 75 | 34 |
| Transitions (Supply and Return) | T1TRAN10AN1 | 22 | 10 |
| | T1TRAN20N-1 | 21 | 10 |

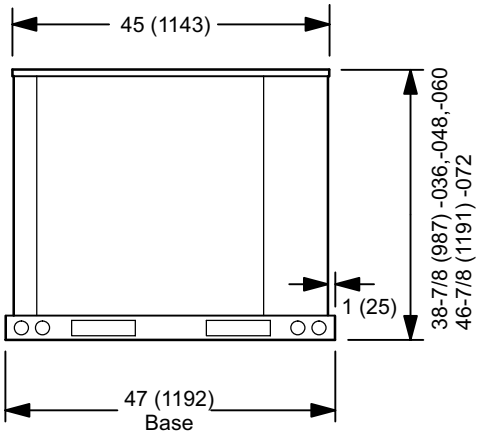
## DIMENSIONS - INCHES (MM)

| Model No. | CORNER WEIGHTS | | | | | | | | | | | | | | CENTER OF GRAVITY | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | AA | | | | BB | | | | CC | | | | DD | | | | EE | | | | FF | | | |
| | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | |
| | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | in. | mm | in. | mm | in. | mm | in. | mm |
| 036 | 97 | 44 | 120 | 54 | 118 | 54 | 135 | 61 | 182 | 83 | 208 | 94 | 150 | 68 | 184 | 83 | 38-1/2 | 978 | 40 | 1016 | 28-1/2 | 724 | 28-1/2 | 724 |
| 048 | 104 | 47 | 128 | 58 | 126 | 57 | 145 | 66 | 194 | 88 | 224 | 102 | 160 | 73 | 198 | 90 | 38-1/2 | 978 | 40 | 1016 | 28-1/2 | 724 | 28-1/2 | 724 |
| 060 | 107 | 49 | 131 | 59 | 130 | 59 | 149 | 68 | 200 | 91 | 229 | 104 | 164 | 74 | 202 | 92 | 38-1/2 | 978 | 40 | 1016 | 28-1/2 | 724 | 28-1/2 | 724 |
| 072 | 118 | 54 | 141 | 64 | 144 | 65 | 160 | 73 | 222 | 101 | 246 | 112 | 183 | 83 | 218 | 99 | 38-1/2 | 978 | 40 | 1016 | 28-1/2 | 724 | 28-1/2 | 724 |

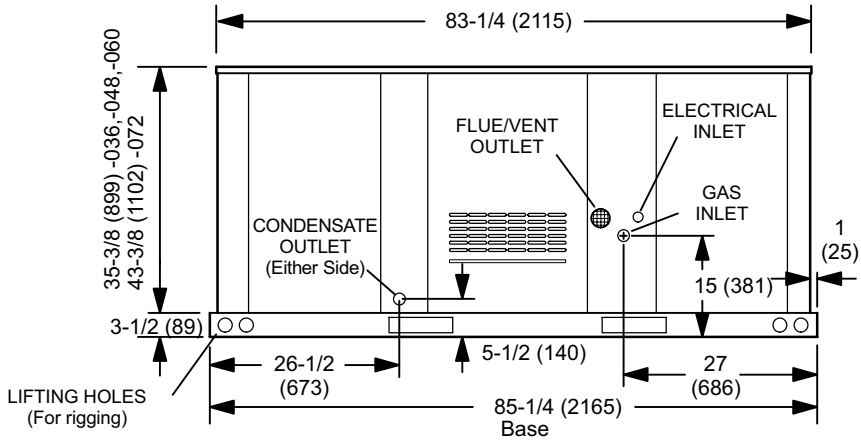
Base Unit - The unit with standard heat exchanger NO OPTIONS.
Max. Unit - The unit with ALL OPTIONS Installed. (High Input Heat Exchanger, Economizer, etc.)



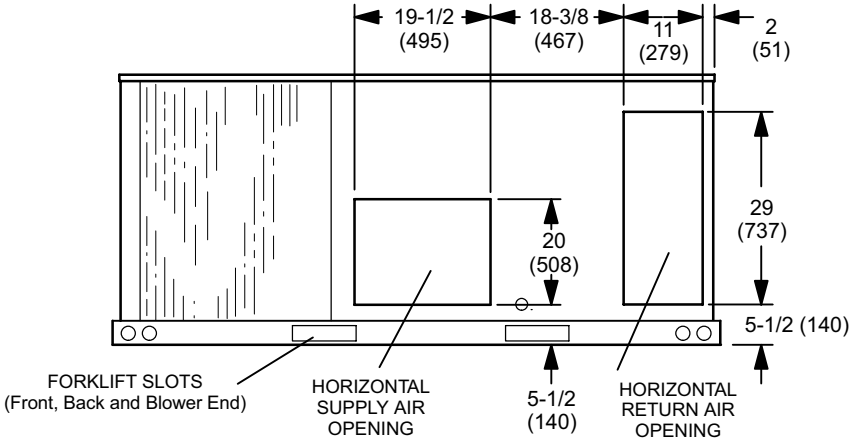

**TOP VIEW (Base)**




**END VIEW**

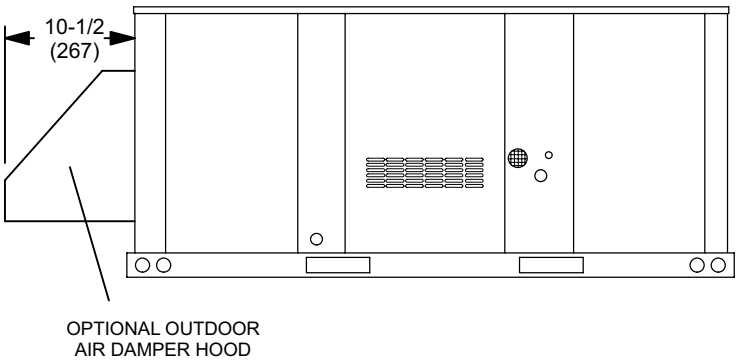


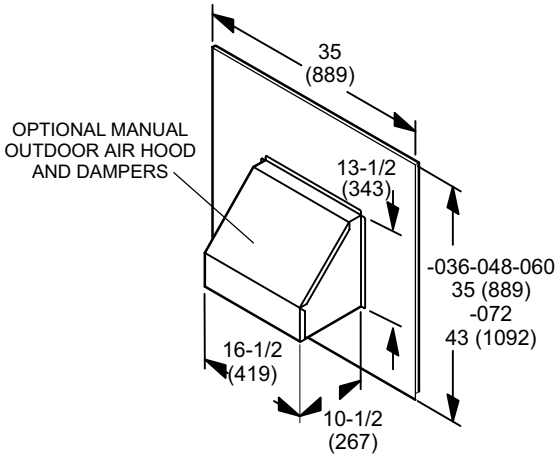

**SIDE VIEW**



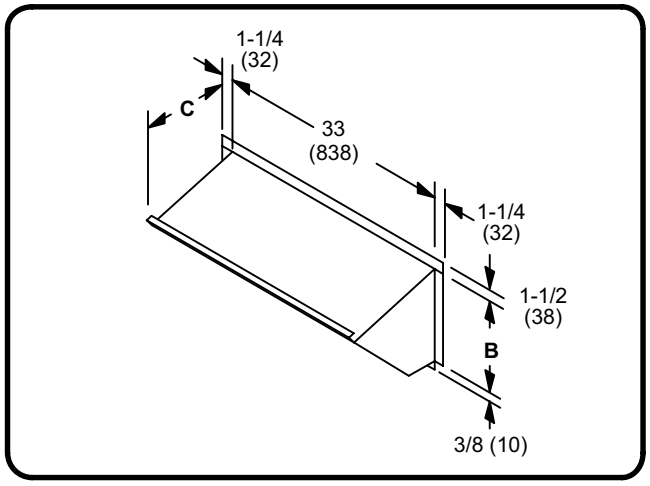
## ACCESSORY DIMENSIONS - INCHES (MM)

**OPTIONAL OUTDOOR AIR DAMPER HOOD DETAIL**
**(Down-Flow or Horizontal Applications)**

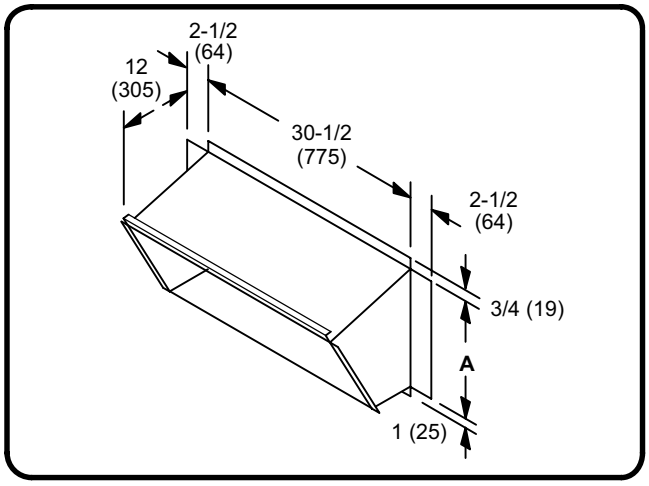



**OPTIONAL OUTDOOR AIR HOOD**
**(Required with Economizer)**

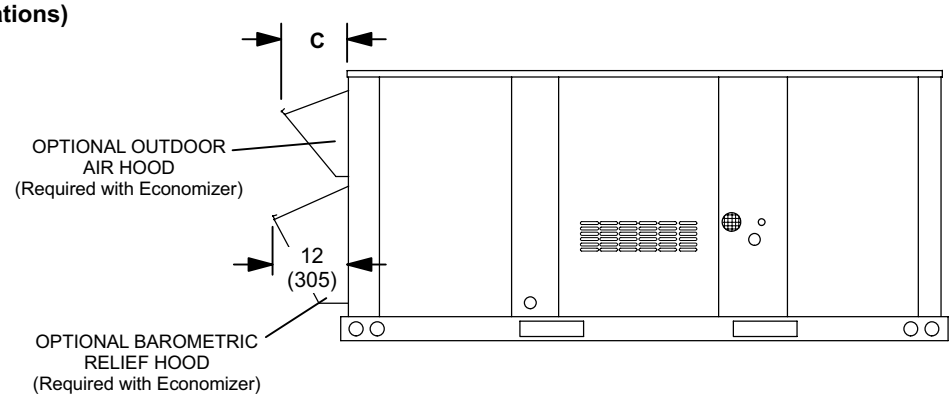



**OPTIONAL BAROMETRIC RELIEF HOOD**
**(Required with Economizer)**



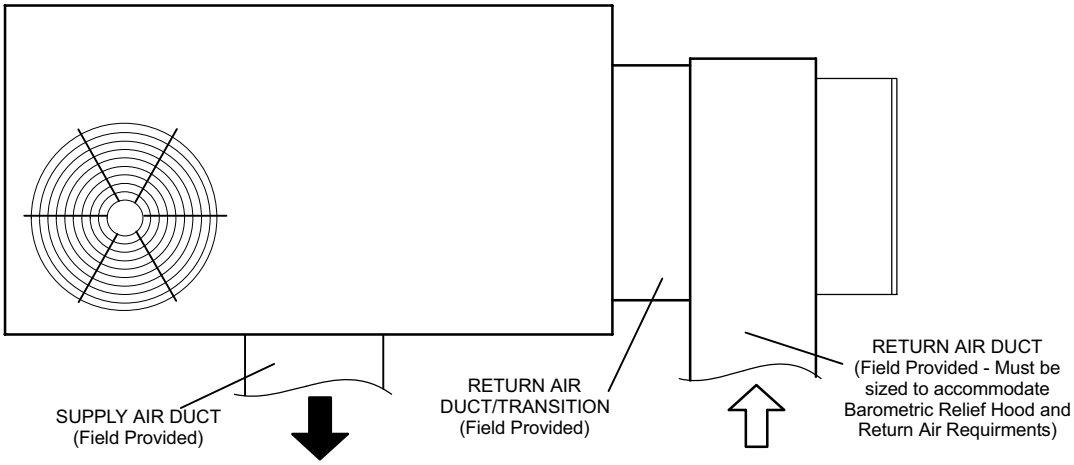

| Model No. | A | | B | | C | |
|---|---|---|---|---|---|---|
| | in. | mm | in. | mm | in. | mm |
| **-036-048-060** | 19-1/4 | 489 | 13 | 330 | 11-3/4 | 298 |
| **-072** | 23-1/4 | 591 | 17 | 432 | 15-3/4 | 400 |

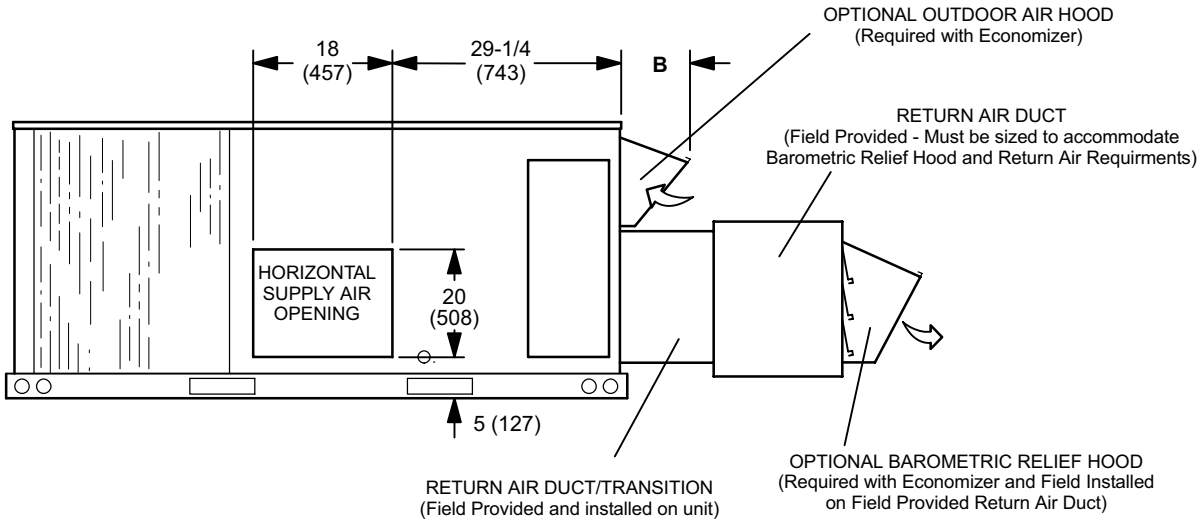
**OPTIONAL OUTDOOR AIR HOOD DETAIL with BAROMETRIC RELIEF DAMPER**
**(Down-Flow Applications)**



## ACCESSORY DIMENSIONS - INCHES (MM)

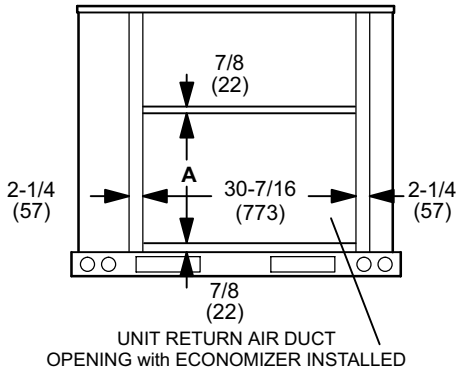
**OPTIONAL OUTDOOR AIR HOOD DETAIL with BAROMETRIC RELIEF DAMPER (Horizontal Applications)**




**NOTE** - Return Air Duct and Transition must be supported.

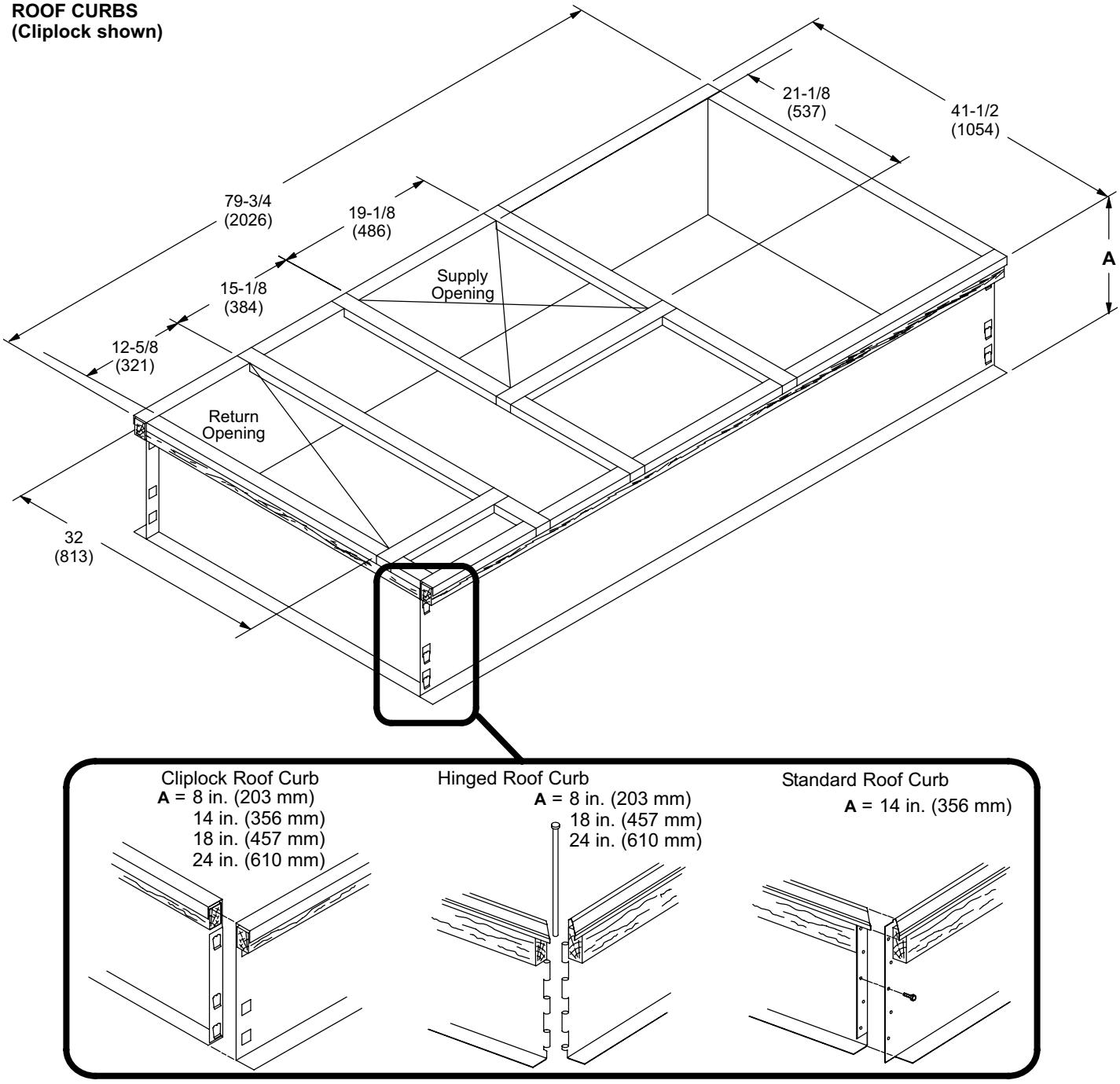
**NOTE** - See previous page for hood detail.




| Model No. | A | | B | |
|---|---|---|---|---|
| | in. | mm | in. | mm |
| **-036-048-060** | 18-3/4 | 476 | 11-3/4 | 298 |
| **-072** | 22-1/2 | 572 | 15-3/4 | 400 |

## ACCESSORY DIMENSIONS - INCHES (MM)

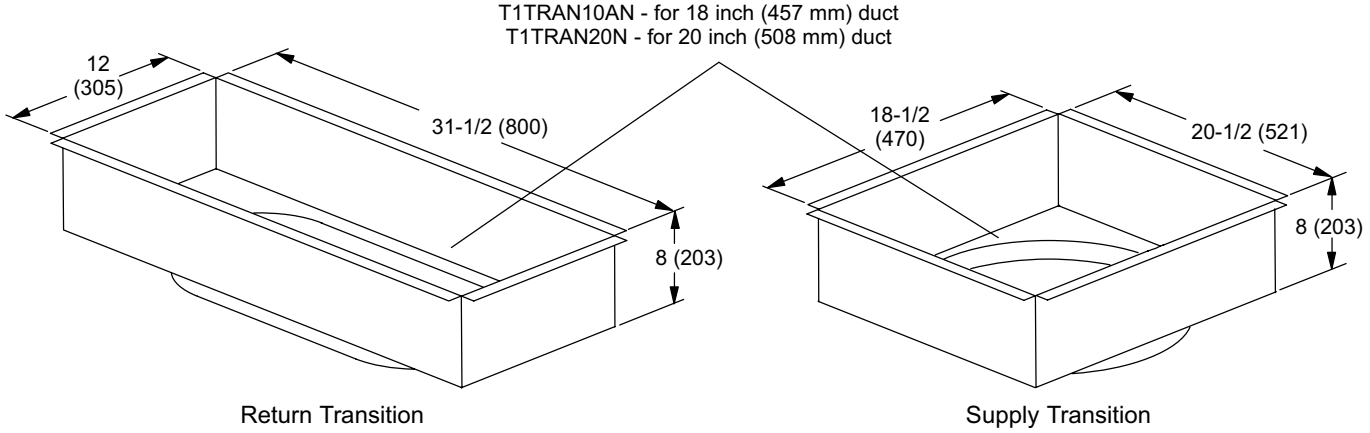
**ROOF CURBS**
**(Cliplock shown)**





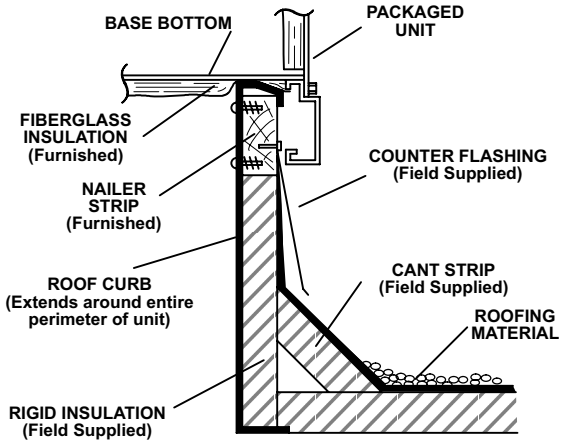


**TRANSITIONS**



## ACCESSORY DIMENSIONS - INCHES (MM)

### TYPICAL FLASHING DETAIL FOR STANDARD ROOF CURB




### STANDARD ROOF CURB SPECIFICATIONS

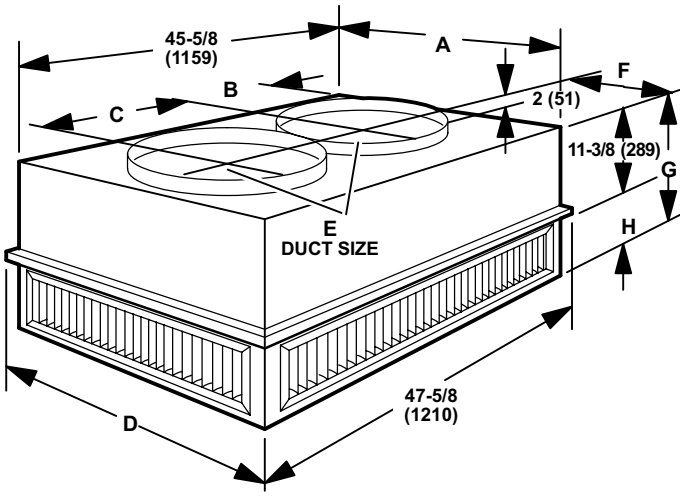
Roof Curb is rigid enough to be spanned over its entire length or cantilevered if supported on both sides of center of gravity.

| Roof Curb | 14 in. high |
|---|---|
| [1] Moment of inertia (I) (in.$^4$) | 39 |
| [1] Section modulus $\frac{I}{C}$ (in.$^3$) | 5.5 |
| Curb weight. (lb/ft.) of length | 5.5 |
| Design strength (psi) | 20,000 |

1 Includes both sides of curb.

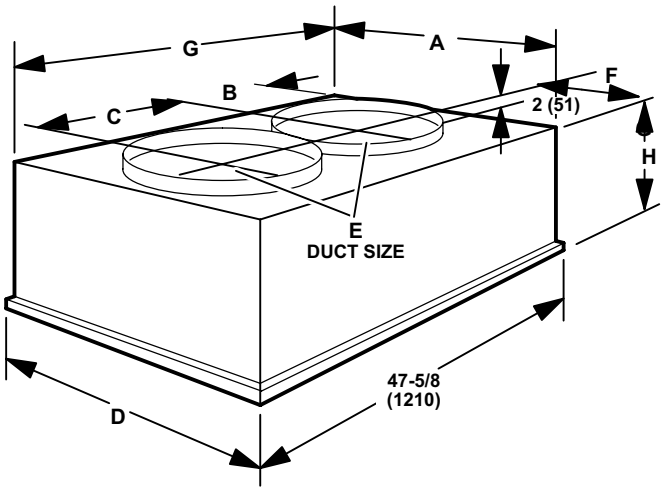
### COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

#### STEP-DOWN CEILING DIFFUSER




| Model No. | RTD9-65 | | RTD11-95 | |
|---|---|---|---|---|
| | in. | mm | in. | mm |
| A | 21-5/8 | 549 | 27-5/8 | 702 |
| B | 12-9/16 | 319 | 11-7/16 | 291 |
| C | 20-1/2 | 521 | 23-3/4 | 603 |
| D | 23-5/8 | 600 | 29-5/8 | 752 |
| E | 18 | 457 | 20 | 508 |
| F | 10-13/16 | 275 | 13-13/16 | 351 |
| G | 18-1/2 | 470 | 19-1/2 | 495 |
| H | 7-1/8 | 181 | 8-1/8 | 206 |

#### FLUSH CEILING DIFFUSER




| Model No. | FD9-65 | | FD11-95 | |
|---|---|---|---|---|
| | in. | mm | in. | mm |
| A | 21 | 533 | 27-5/8 | 702 |
| B | 12-1/4 | 311 | 11-7/16 | 291 |
| C | 20-1/2 | 521 | 23-3/4 | 603 |
| D | 23-5/8 | 600 | 29-5/8 | 752 |
| E | 18 | 457 | 20 | 508 |
| F | 10-1/2 | 267 | 13-13/16 | 351 |
| G | 45 | 1143 | 45-5/8 | 1159 |
| H | 15-3/8 | 391 | 16-1/8 | 410 |

# Notes

# Notes

# Notes

ARI Standard
210/240 UAC

ARI Standard
340/360

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PERFORMANCE

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ENERGETIQUE

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NOTE - Due to our ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability.
Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
Installation and service must be performed by a qualified installer and servicing agency.