



ENGINEERING DATA

PACKAGED GAS / ELECTRIC

TG
T-CLASS™ ROOFTOP UNITS
60 HZ

Bulletin No. TGA180-210-240-300 (08/09)



ASHRAE 90.1
COMPLIANT

ENERGY STAR

15 to 25 Tons
Net Cooling Capacity - 180,000 to 286,000 Btuh
Gas Input Heat Capacity - 260,000 to 480,000 Btuh

MODEL NUMBER IDENTIFICATION

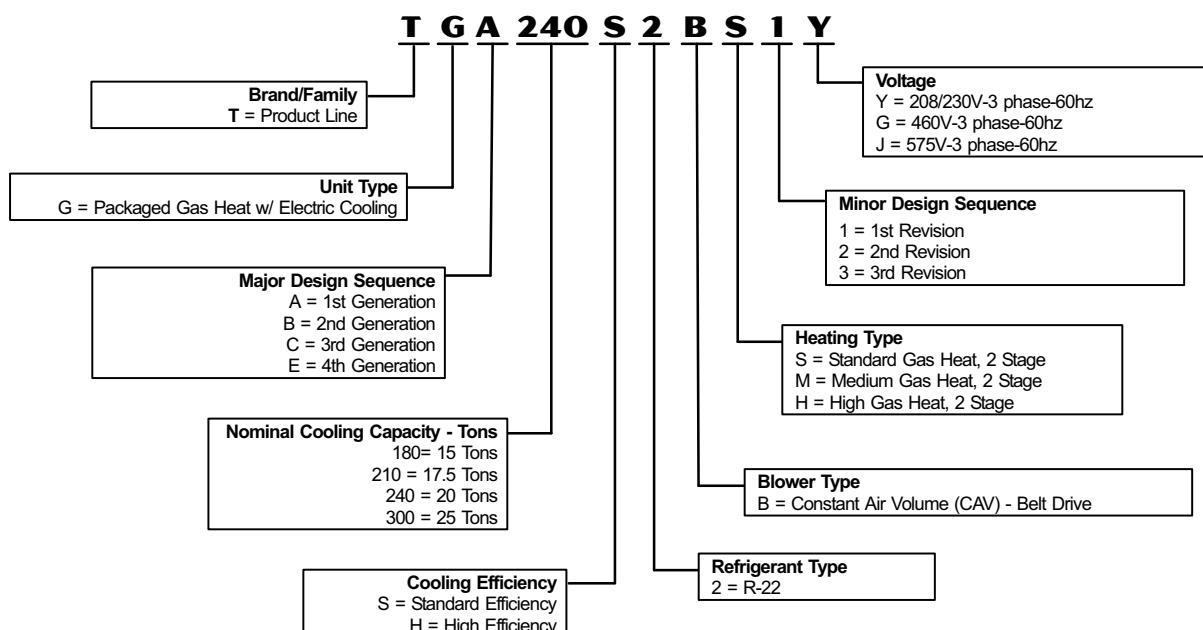


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FEATURES AND BENEFITS

APPROVALS

ETL and CSA listed.
Heating efficiency ratings verified by CSA.
180 thru 240 models are certified in accordance with the ULE certification program, which is based on ARI Standard 340/360-2000.
300S models are tested at conditions included in ARI Standard 340/360-2000. Components bonded for grounding to meet safety standards for servicing required by UL, CSA and National and Canadian Electrical Codes.
ENERGY STAR® certified units are designed to use less energy, help save money on utility bills, and help protect the environment.
ISO 9001 Registered Manufacturing Quality System.

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.

HEATING SYSTEM

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

Heat Exchanger

Tubular, dimpled design (patent pending), construction, aluminized steel, life cycle tested.
Stainless Steel Heat Exchanger is required if mixed air temperature is less than 45°F.

Fan & Limit Controls

Factory installed with fixed temperature setting.
Heat limit controls protect against overheating.

Safety Switches

Flame roll-out switches, flame sensors and combustion air inducer proving switches protect system operation. All safety switches are monitored by the ignition control board.

Electronic 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.

REQUIRED SELECTIONS

Gas Input - Order one:
169,000 / 260,000 Btuh low/high fire - Standard Heat Gas Input.
234,000 / 360,000 Btuh low/high fire - Medium Gas Heat Input.
312,000 / 480,000 Btuh low/high fire - High Gas Heat Input

OPTIONS/ACCESSORIES

Factory Installed

Stainless Steel Heat Exchanger

Required if mixed air temperature is below 45°F.

Field Installed

Cold Weather Kit

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

Combustion Air Intake Extensions

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

Gas Piping Kit

Allows gas piping through the unit base.

LPG/Propane Kits

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

Vertical Vent Extension Kit

Exhausts flue gases vertically above unit.

COOLING SYSTEM

Designed to maximize sensible and latent cooling performance at design conditions.
Two efficiency levels provide flexibility. System can operate from 30°F to 125°F without any additional controls.

2 Compressors

Resiliently mounted on rubber grommets for quiet operation.
Scroll compressors on all models for high performance, reliability and quiet operation.

3 Thermal Expansion Valves

Assures optimal performance throughout the application range.
Removable element head.

4 Filter/Driers

High capacity filter/driers protect the system from dirt and moisture.

Freezestats

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

5 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. Low fin per inch count minimizes air pressure drop. Face-split evaporator coils are designed to keep condensate water off of an inactive part of the coil so the condensate will not re-enter the air stream.

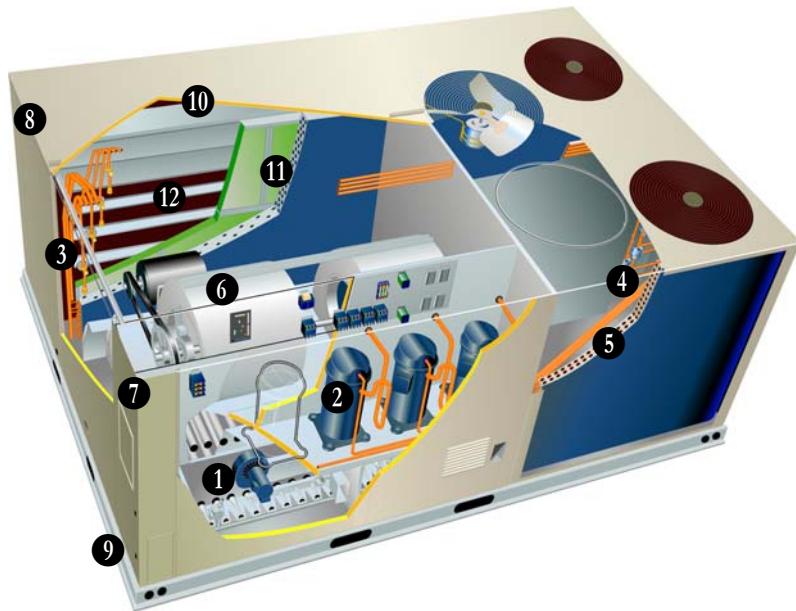
Condenser Coil

Formed type coil.

Condensate Drain Pan

Painted, galvanized pan with positive slope.
Drain connection extends outside unit.

FEATURES AND BENEFITS



COOLING - CONTINUED

Outdoor Coil Fan Motors

Thermal overload protected, totally enclosed, permanently lubricated ball bearings, shaft up, independent motor mount.

Outdoor Coil Fan

PVC coated fan guard furnished.

REQUIRED SELECTIONS

Cooling Capacity

Specify the nominal cooling capacity of the unit.

Cooling Efficiency

Specify either standard or high efficiency.

OPTIONS/ACCESSORIES

Field Installed

Condensate Drain Trap

Available in copper or PVC.

Compressor Crankcase Heaters

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

High Pressure Switches

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

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.

6 BLOWER

Supply air fan provides a wide range of air flow capability. Stocked models (units typically in-stock at warehouses) are equipped with standard static motor/drive combinations. Special order high and low static motor and drive options are available CTO (configure to order) offering an even wider range of capability.

Supply Air Motor

Overload protected with permanently lubricated ball bearings ensures durable operation. Belt drive motors that meet EPACT efficiency requirements maximize air performance and save energy. Special order high and low static motors provide a higher level of air performance for demanding applications.

Supply Air Blower

A double inlet wheel with forward curve blades provide maximum air performance and quiet operation. Dynamically balanced with permanently lubricated ball bearings assure long, reliable operation. Adjustable pulleys allow air to be precisely tuned to the needs of the application.

REQUIRED SELECTIONS

Supply Air Blower

Specify Blower motor and drive kit (See Blower Data Table for specifications).

ELECTRICAL

REQUIRED SELECTIONS

Voltage Choice

Specify 208/230V, 460V or 575V 3-phase-60hz when ordering base unit.

OPTIONS/ACCESSORIES

Field Installed

7 Circuit Breakers up to 175 Amp

HACR circuit breaker without power distribution lugs. Accessible from outside of unit, spring-loaded weatherproof cover furnished. Main power to the unit is field connected to the circuit breaker which allows all power to be shutoff for service. Circuit breaker is sized to the unit maximum overcurrent protection (MOCP) size.

Disconnect Switch up to 250 Amp

Accessible from outside of unit, spring loaded weatherproof cover furnished. Main power to the unit is field connected to the disconnect which allows all power to be shut off for service.

GFI Service Outlets (2)

115v ground fault circuit interrupter (GFCI) type, field wired.

FEATURES AND BENEFITS

CONTROLS

Unit Controller

Microprocessor-based control board provides flexible control of cooling functions. All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection. Built-in functions include:

Blower On/Off Delay - Time delay between blower on and off cycles provides a more even supply air temperature during heating.

Built-in Control Parameters - Saves installation time as no programming is required.

Minimum Compressor Run Time - Ensures proper oil return to the compressor.

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

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

Thermostat Bounce Delay - Protects compressor from short cycling when a mechanical thermostat is used.

OPTIONS/ACCESSORIES

Field Installed

Blower Proving Switch

Uses a static pressure sensor to monitors blower operation and shuts down unit if blower fails.

Dirty Filter Switch

Senses static pressure increase indicating dirty filter condition.

Smoke Detector

Photoelectric type, installed in supply air section or return air section or both sections

CABINET

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 available in down-flow (vertical) or horizontal return air flow configuration.

Horizontal air flow requires Horizontal Roof Curb.

Horizontal Return Air Panel Kit is also required if converting a down-flow configured unit to horizontal air flow.

Power/Gas Entry

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

Exterior Panels

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

10 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 compressor/controls/heating section and the blower access and air filter/economizer section.

REQUIRED SELECTIONS

Air Flow Configuration

Specify horizontal or down-flow (vertical).

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.

Hinged Access Panels

Large access panels are hinged and have quarter-turn latches 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.

Horizontal Return Air Panel Kit

Required for horizontal applications with Horizontal Roof Curb, contains panel with return air opening for field replacement of existing unit panel and panel to cover bottom return air opening in unit, see dimension drawings.

INDOOR AIR QUALITY

11 Air Filters

Disposable 2 inch filters furnished as standard.

OPTIONS/ACCESSORIES

Field Installed

Indoor Air Quality (CO₂) Sensor

Monitors CO₂ levels adjusts economizer dampers as needed for Demand Control Ventilation.

Replaceable Media Filter Kit With Frame

Permanent, metal frame filters with 2 inch polyester replaceable media.

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.

Access Panels

Large access panels are provided for quick and easy access to maintenance areas.

Blower Access

Blower assembly slides out of the unit for easy access.

TXV Access

Thermal expansion valves are located near the perimeter of the unit for easier access.

Thermal Expansion Valves

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.

Standard Components

A large number of common maintenance parts are standard throughout the entire range of sizes (15 - 25 tons), reducing the need to carry a lot of different parts to the job or in inventory.

Compressor Access

Compressors are located near the perimeter of the unit for easier access.

Compressor Compartment

Compressors are isolated from the condenser air flow allowing system operation checks to be done without changing the air flow across the outdoor coils.

OPTIONS / ACCESSORIES

ECONOMIZER/OUTDOOR AIR/EXHAUST ACCESSORIES

Factory or Field Installed

Economizer

Parallel, gear-driven action return air and outdoor air dampers, plug-in connections to unit, nylon bearings, neoprene seals, 24 volt, spring return motor, adjustable minimum damper position, damper assembly slides in unit, outdoor air hood must be ordered separately, choice of economizer controls. Economizer modulates dampers to maintain a 55°F discharge air temperature.

Economizer Enthalpy Control

Senses outdoor air enthalpy and enables economizer if the enthalpy is less than the setpoint of the control.

Down-Flow Barometric Relief Dampers

Allows relief of excess return air static when economizer is near full open. Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle. Bird screen furnished.

Outdoor Air Damper Section

25% Manual Outdoor Air Dampers - Parallel blade dampers are manually adjustable to a fixed position.

25% Automatic Outdoor Air Damper - Parallel blade, gear-driven dampers are automatically adjusted with a two-position damper motor.

Economizer and Outdoor Air Damper Application Note

Minimum mixed air temperature in heating mode 30°F

Maximum mixed air temperature in cooling mode: 90°F

Power Exhaust Fans

C1PWRE20C-1 models have two, 1/3 hp motors with 20 in., five blade propeller-type fans with a total power input of 750 Watts and a total air volume of 8630 cfm at 0 in. w.g..

Motor is inherently protected and enclosed for maximum protection from weather, dust and corrosion. Installs internal to unit for down-flow applications only with economizer option, provides exhaust air pressure relief, interlocked to run when return air dampers are closed and supply air blower is operating, fan runs when outdoor air dampers are 50% open (adjustable), motor is overload protected, steel cabinet and hood painted to match unit, requires optional Down-flow Economizer Barometric Relief Dampers.

See Power Exhaust Blower Tables.

Field Installed

Economizer Control

Sensible Temperature Control - Senses outdoor air temperature and enables the economizer if the temperature is less than the set point of the control. Order two kits for differential control.

Single Outdoor Enthalpy Control - Senses outdoor air enthalpy and enables economizer if the enthalpy is less than the setpoint of the control.

Differential Enthalpy (Dual) Control - Two solid-state enthalpy sensors allow the control to select between outdoor air or return air, whichever has lower enthalpy.

Outdoor Air Hood

Required with Economizer, Outdoor Air Damper Sections, cleanable aluminum mesh fresh air filters furnished.

Down-Flow Barometric Relief Damper Hood

Protects exhaust air from recirculating into outdoor air stream.

Horizontal Barometric Relief Dampers

Allows relief of excess air when economizer is near full open. Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle. Field installed in return air duct. Bird screen furnished.

CEILING DIFFUSERS

OPTIONS/ACCESSORIES

Field Installed

Ceiling Diffusers

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 CURBS

OPTIONS/ACCESSORIES

Field Installed

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.

Horizontal

Converts unit from down-flow to horizontal (side) air flow, return air is on unit, supply air is on curb, see dimension drawings. Curbs for rooftop applications meet National Roofing Code requirements. Available in cliplock and standard versions.

Requires Horizontal Return Air Panel. Available in 26, 30, 37, and 41 inch heights.

Optional Insulation Kit is available to help prevent sweating.

Fastening Systems

Cliplock curbs use interlocking tabs to fasten together. No tools required.

Standard roof curb corners fasten together with furnished hardware.

OPTIONS / ACCESSORIES

| Item | Catalog No. | 180 | 210 | 240 | 300S |
|--|---|----------------------------------|------------------|----------------|----------------|
| COOLING SYSTEM | | | | | |
| Compressor Crankcase Heater | 208/230V - TACHK10/15-Y 460V - TACHK10/15-G 575V - TACHK10/15-J | 76M34 76M35 76M76 | x x x | x x x | x x x |
| Condensate Drain Trap | PVC - LTACDKP09/36 | 37K90 | x | x | x |
| | Copper - LTACDKC09-36 | 48K14 | x | x | x |
| Efficiency | Standard High | | o o | o o | o o |
| High Pressure Switches | T1SNSR11C-2 | 43W00 | x | x | x |
| Low Ambient Kit | T1SNSR12C-2 | 43W01 | x | x | x |
| Refrigerant Type | R-22 | | o | o | o |
| HEATING SYSTEM | | | | | |
| Cold Weather Kit | 208/230V - LTACWK10/15-Y 460V - LTACWK10/15-G 575V - LTACWK10/15-J | 19W53 19W54 19W55 | x x x | x x x | x x x |
| Combustion Air Intake Extensions | LTACAIK10/15 | 89L97 | 1x | 1x | 1x |
| Gas Heat Input | Standard - 169/260 kBtuh input Medium - 234/360 kBtuh input High - 312/480 kBtuh input | | o o o | o o o | o o o |
| Gas Piping Kit | Thru unit base - C1GPKT01C01 | 85M31 | x | x | x |
| LPG/Propane Conversion Kits | Standard - LTALPGK-130 Medium - LTALPGK-180 High - LTALPGK-240 | 72M94 72M95 72M96 | 1x 1x 1x | 1x 1x 1x | 1x 1x 1x |
| Stainless Steel Heat Exchanger | | | o | o | o |
| Vertical Vent Extension | LTAWEK10/15 | 73M72 | 1x | 1x | 1x |
| BLOWER - SUPPLY AIR - See Blower Data Tables for Specifications | | | | | |
| | Low Static Motor/Drive Combination Standard Static Motor/Drive Combination (stock unit) High Static Motor/Drive Combination | | o o o | o o o | o o o |
| ² Standard to Low Static Conversion Kit | Drive Kit #A - C1DRKT044-1 Drive Kit #2 - C1DRKT004-1 Drive Kit #9 - C1DRKT045-1 Drive Kit #7 - C1DRKT042-1 | 90M53 87M04 90M54 90M51 | x x x x | | |
| ³ High to Standard Static Conversion Kit | Drive Kit #3 - C1DRKT038-1 Drive Kit #7 - C1DRKT042-1 | 90M47 90M51 | x x | | |
| CABINET | | | | | |
| Coil Guards | C1GARD20C-1 | 88K55 | x | x | x |
| Corrosion Protection | | | o | o | o |
| Hail Guards | C1GARD10C-1 | 88K28 | x | x | x |
| Hinged Access Panels | | | o | o | o |
| ⁴ Horizontal Return Air Panel Kit | C1HRAP10C-1 | 87M00 | x | x | x |
| CONTROLS | | | | | |
| Blower Proving Switch | C0SWCH01AE-1 | 30K49 | x | x | x |
| Dirty Filter Switch | C0SWCH00AE-1 | 30K48 | x | x | x |
| Smoke Detector - Supply | L1SNSR41BD1 | 53W26 | x | x | x |
| Smoke Detector - Return | L1SNSR42BD1 | 53W25 | x | x | x |

NOTE - The catalog and part numbers that appear here are for ordering field installed accessories only.

○ - Configure to Order (Factory Installed). Factory installed items are special order with extended lead times and must be ordered with the unit.

X - Field Installed

1 Order two each.

2 Standard static drive can be converted to low static drive with field installed kit.

3 High static drive can be converted to standard static drive with field installed kit.

4 Required for horizontal applications with Horizontal Roof Curb.

OPTIONS / ACCESSORIES

| Item | Catalog No. | 180 | 210 | 240 | 300S |
|---|--|-------|-----|-----|------|
| ELECTRICAL | | | | | |
| Voltage 60 hz | 208/230V - 3 phase | ○ | ○ | ○ | ○ |
| | 460V - 3 phase | ○ | ○ | ○ | ○ |
| | 575V - 3 phase | ○ | ○ | ○ | ○ |
| HACR Circuit Breakers | 30 to 150 Amp size available | x | x | x | x |
| Disconnect Switch | 150 Amp - T1DISC150-1 For 208/230V-3ph models | 80M01 | x | x | x |
| | 80 Amp - T1DISC080-1 For 460/575V models | 80M00 | x | x | x |
| GFI Service Outlets | 74M70 | x | x | x | x |
| ECONOMIZER | | | | | |
| Economizer | | | | | |
| Economizer - Order Hood Separately | T1ECON10C-1 | 86M31 | ⊗ | ⊗ | ⊗ |
| Hood for Economizer | C1HOOD10C | 85M25 | x | x | x |
| Economizer Controls | | | | | |
| Differential Enthalpy (dual) | C1SNSR07AE | 86M33 | x | x | x |
| Sensible (order two kits for Differential) | TASEK10/15 | 76M37 | ⊗ | ⊗ | ⊗ |
| Single Outdoor Enthalpy | C1SNSR06AE | 86M32 | x | x | x |
| Barometric Relief | | | | | |
| Down-Flow Barometric Relief Dampers - Order Hood Separately | LAGED18/24 | 16K98 | ⊗ | ⊗ | ⊗ |
| Hood for Down-Flow LAGED | C1HOOD20C | 85M26 | x | x | x |
| Horizontal Barometric Relief Dampers - Hood Furnished | LAGEDH18/24 | 16K99 | x | x | x |
| OUTDOOR AIR | | | | | |
| Outdoor Air Dampers | | | | | |
| Damper Section - Order Hood Separately | Motorized - T1DAMP20C-1 | 86M30 | ⊗ | ⊗ | ⊗ |
| | Manual - LAOAD18/24 | 16K93 | ⊗ | ⊗ | ⊗ |
| Outdoor Air Hoods for Economizers and Outdoor Air Dampers | | | | | |
| Outdoor Air Hood (No. of Filters) 16 x 25 x 1 in. | C1HOOD10C-1 | 85M25 | ⊗ | ⊗ | ⊗ |
| POWER EXHAUST FANS | | | | | |
| Standard Static | 208/230V - C1PWRE20C-1Y | 85M37 | x | x | x |
| | 460V - C1PWRE20C-1G | 85M38 | x | x | x |
| | 575V - C1PWRE20C-1J | 85M39 | x | x | x |
| INDOOR AIR QUALITY | | | | | |
| Air Filters | | | | | |
| Replaceable Media Filter Kit with Frame 24 x 24 x 2 order 6 per unit | C1FLTR30C-1 | 44N61 | x | x | x |
| Indoor Air Quality (CO₂) Sensors | | | | | |
| CO ₂ Sensor Duct Mounting Kit | C0MISC19AE1- | 85L43 | x | x | x |
| Sensor - off-white case CO ₂ display | C0SNSR50AE1L | 77N39 | x | x | x |
| Sensor - off-white case no display | C0SNSR52AE1L | 87N53 | x | x | x |
| Sensor - black case CO ₂ display | C0SNSR51AE1L | 87N52 | x | x | x |
| Sensor - black case, no display | C0SNSR53AE1L | 87N54 | x | x | x |
| Aspiration Box for duct mounting | C0MISC16AE-1 | 90N43 | x | x | x |
| Handheld CO ₂ Monitor | LTAIAQSHM03/36 | 70N93 | x | x | x |

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

○ - Configure to Order (Factory Installed)

X - Field Installed.

OPTIONS / ACCESSORIES

| Item | Catalog No. | 180 | 210 | 240 | 300S |
|--|---|----------------|--------|--------|--------|
| CEILING DIFFUSERS | | | | | |
| Step-Down - Order one | RTD11-185 (Canada Only) RTD11-150/180S | 29G06 13K63 | x x | | |
| | RTD11-275 (Canada Only) RTD11-275S | 29G07 13K64 | x x | x x | x x |
| Flush - Order one | FD11-185 (Canada Only) FD11-150/180S | 29G10 13K58 | x x | | |
| | FD11-275-R (Canada Only) FD11-275S | 29G11 13K59 | | x x | x x |
| Transitions (Supply and Return) Order one | LASRT18 (Canada Only) LASRT18S | 19K01 33K48 | x x | | |
| | LASRT21/24 (Canada Only) LASRT21/24S | 19K02 33K49 | | x x | x x |
| ROOF CURBS - CLIPLOCK 1000 | | | | | |
| Down-Flow | | | | | |
| 8 in. height | C1CURB40CN1- | 26W32 | x | x | x |
| 14 in. height | LARMF18/30S-14 | 33K44 | x | x | x |
| 18 in. height | LARMF18/30S-18 | 33K45 | x | x | x |
| 24 in. height | LARMF18/30S-24 | 33K46 | x | x | x |
| Horizontal | | | | | |
| 26 in. height | LARMFH18/24S-26 | 33K47 | x | x | x |
| 37 in. height | LARMFH18/24S-37 | 45K70 | x | x | x |
| ROOF CURBS - STANDARD | | | | | |
| Down-Flow | | | | | |
| 14 in. height | LARMF18/36-14 | 16K87 | x | x | x |
| 24 in. height | LARMF18/36-24 | 16K88 | x | x | x |
| Horizontal | | | | | |
| 26 in. height | LARMFH18/24-26 | 97J33 | x | x | x |
| 37 in. height | LARMFH18/24-37 | 38K53 | x | x | x |
| Insulation Kits | | | | | |
| for LARMFH18/24-26 | | 73K32 | x | x | x |
| for LARMFH18/24-37 | | 73K34 | x | x | x |

NOTE - The catalog and part 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.

SPECIFICATIONS
15 - 17.5 TON

| General Data | Nominal Tonnage Model No. Efficiency Type | 15 Ton TGA180S2B Standard | 15 Ton TGA180H2B High | 17.5 Ton TGA210S2B Standard | 17.5 Ton TGA210H2B High | |
|--|---|--|---|--|--|--|
| Cooling Performance | Gross Cooling Capacity - Btuh | 186,000 | 186,000 | 218,000 | 219,000 | |
| | ¹ Net Cooling Capacity - Btuh | 180,000 | 180,000 | 210,000 | 210,000 | |
| | ARI Rated Air Flow - cfm | 6000 | 6000 | 6700 | 7000 | |
| | Total Unit Power - kW | 18.6 | 16.7 | 22.1 | 19.4 | |
| | ¹ EER (Btuh/Watt) | 9.7 | 10.8 | 9.5 | 10.8 | |
| | ² Integrated Part Load Value (Btuh/Watt) | 10.1 | 11.2 | 9.9 | 11.2 | |
| | Refrigerant Type | R-22 | R-22 | R-22 | R-22 | |
| | Refrigerant Charge Furnished | Circuit 1 Circuit 2 Circuit 3 Circuit 4 | 9 lbs. 0 oz. 9 lbs. 0 oz. 9 lbs. 0 oz. --- | 11 lbs. 8 oz. 11 lbs. 8 oz. 11 lbs. 8 oz. --- | 8 lbs. 0 oz. 8 lbs. 0 oz. 8 lbs. 0 oz. --- | |
| | | | | | 11 lbs. 0 oz. 11 lbs. 0 oz. 11 lbs. 0 oz. 11 lbs. 0 oz. | |
| | | | | | | |
| Gas Heating Options - See Page 11 | | Standard (2 Stage) - Medium (2 Stage) - High (2 Stage) | | | | |
| Compressor Type (no.) | | Scroll (3) | Scroll (3) | Scroll (3) | Scroll (4) | |
| Outdoor Coils | Net face area - sq. ft. total | 56.0 | 56.0 | 56.0 | 56.0 | |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Number of rows | 1 | 2 | 1 | 2 | |
| | Fins per inch | 20 | 20 | 20 | 20 | |
| Outdoor Coil Fans | Motor horsepower (W) | (4) 1/3 | (4) 1/3 | (4) 1/2 | (4) 1/3 | |
| | Motor rpm | 1075 | 1075 | 1075 | 1075 | |
| | Total Motor watts | 1370 | 1395 | 1800 | 1395 | |
| | Diameter - in. - No. of blades | (4) 24 - 3 | (4) 24 - 3 | (4) 24 - 3 | (4) 24 - 3 | |
| | Total Air volume - cfm (L/s) | 15,850 | 15,450 | 16,000 | 15,450 | |
| Indoor Coils | Net face area - sq. ft. (m ²) total | 22.3 | 22.3 | 22.3 | 22.3 | |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 | 3/8 | |
| | No. of rows | 3 | 3 | 3 | 3 | |
| | Fins per inch (m) | 14 | 14 | 14 | 14 | |
| | Drain connection - number and size | (1) 1 in. NPT coupling | | | | |
| 3, 4 Indoor Blower and Drive Selection | Expansion device type | Balanced Port Thermostatic Expansion Valve, removable power head | | | | |
| | Nominal motor HP | Low Static | 3 hp | 3 hp | 5 hp | |
| | | Standard Static | 3 hp | 3 hp | 5 hp | |
| | | High Static | 5 hp | 5 hp | 7.5 hp | |
| | Max. usable motor output (US Only) | Low Static | 3.45 hp | 3.45 hp | 5.75 hp | |
| | | Standard Static | 3.45 hp | 3.45 hp | 5.75 hp | |
| | | High Static | 5.75 hp | 5.75 hp | 8.63 hp | |
| | Drive Kit | Low Static | #A - 535-725 rpm | #A - 535-725 rpm | #2 - 685-865 rpm | |
| | | Standard Static | #1 - 710-965 rpm | #1 - 710-965 rpm | #3 - 850-1045 rpm | |
| | | High Static | #4 - 945-1185 rpm | #4 - 945-1185 rpm | #6 - 1045-1285 rpm | |
| | Field Installed Drive Kits | Standard to Low Static | #A - 535-725 rpm | #A - 535-725 rpm | #2 - 685-865 rpm | |
| | | High to Standard Static | #3 - 850-1045 rpm | #3 - 850-1045 rpm | #7 - 850-1045 rpm | |
| Blower wheel nominal diameter x width | | (2) 15 x 15 in. | | | | |
| Filters | | Disposable, pleated MERV 4 (6) 24 x 24 x 2 | | | | |
| Electrical characteristics | | 208/230V, 460V or 575V - 60 hertz - 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 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.

² Integrated Part Load Value tested at 80°F (27°C) outdoor air temperature.

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

⁴ Stocked models are available with standard static drives. High static drives are factory installed (configure to order). Low static drive can be factory installed (configure to order) or standard static drives can be converted to low static with field installed kit. High static models can be converted to standard static with field installed kit.

SPECIFICATIONS
20 - 25 TON

| General Data | Nominal Tonnage Model No. Efficiency Type | 20 Ton TGA240S2B Standard | 20 Ton TGA240H2B High | 25 Ton TGA300S2B Standard |
|--|---|--|--|--|
| Cooling Performance | Gross Cooling Capacity - Btuh | 243,000 | 251,000 | 302,000 |
| | Net Cooling Capacity - Btuh | 232,000 | 240,000 | 286,000 |
| | ARI Rated Air Flow - cfm | 8000 | 7500 | 9000 |
| | Total Unit Power - kW | 24.4 | 22.2 | 30.1 |
| | ¹ EER (Btuh/Watt) | 9.5 | 10.8 | 9.5 |
| | ³ Integrated Part Load Value (Btuh/Watt) | 9.9 | 11.2 | 9.7 |
| | Refrigerant Type | R-22 | R-22 | R-22 |
| | Refrigerant Charge Furnished | Circuit 1 Circuit 2 Circuit 3 Circuit 4 | 11 lbs. 8 oz. 11 lbs. 8 oz. 11 lbs. 8 oz. --- | 11 lbs. 0 oz. 11 lbs. 0 oz. 11 lbs. 0 oz. 11 lbs. 0 oz. |
| | Gas Heating Options - See Page 11 | Standard (2 Stage) - Medium (2 Stage) - High (2 Stage) | | |
| | Compressor Type (no.) | Scroll (3) | Scroll (4) | Scroll (4) |
| Outdoor Coils | Net face area - sq. ft. total | 56.0 | 56.0 | 56.0 |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 |
| | Number of rows | 2 | 2 | 2 |
| | Fins per inch | 20 | 20 | 20 |
| Outdoor Coil Fans | Motor horsepower | (4) 1/3 | (4) 1/3 | (4) 1/2 |
| | Motor rpm | 1075 | 1075 | 1075 |
| | Total Motor watts | 1395 | 1395 | 1800 |
| | Diameter - in. - No. of blades | (4) 24 - 3 | (4) 24 - 3 | (4) 24 - 3 |
| | Total Air volume - cfm | 15,450 | 15,450 | 16,000 |
| Indoor Coils | Net face area - sq. ft. total | 22.3 | 22.3 | 22.3 |
| | Tube diameter - in. | 3/8 | 3/8 | 3/8 |
| | No. of rows | 3 | 4 | 4 |
| | Fins per inch (m) | 14 | 14 | 14 |
| | Drain connection - no. and size | (1) 1 in. NPT coupling | (1) 1 in. NPT coupling | (1) 1 in. NPT coupling |
| | Expansion device type | Balanced Port Thermostatic Expansion Valve, removable power head | | |
| 4, 5 Indoor Blower and Drive Selection | Nominal motor HP | Low Static | 5 hp | 7.5 hp (5.6 kW) |
| | | Standard Static | 7.5 hp | 10 hp (7.5 kW) |
| | | High Static | 10 hp | N/A |
| | Max. usable motor output (US Only) | Low Static | 5.75 hp | 8.63 hp (6.4 kW) |
| | | Standard Static | 8.63 hp | 11.5 hp (8.6 kW) |
| | | High Static | 11.5 hp | N/A |
| | Drive Kit | Low Static | #2 - 685-865 rpm | #7 - 850-1045 rpm |
| | | Standard Static | #7 - 850-1045 rpm | #6 - 1045-1285 rpm |
| | | High Static | #6 - 1045-1285 rpm | N/A |
| | Field Installed Low Static Drive Kit | #9 - 685-865 rpm | #9 - 685-865 rpm | #7 - 850-1045 rpm |
| | Blower wheel nominal diameter x width | (2) 15 x 15 in. | | |
| Filters | Type of filter | Disposable, pleated MERV 4 | | |
| | No. and size - in. | (6) 24 x 24 x 2 | | |
| Electrical characteristics | | 208/230V, 460V or 575V - 60 hertz - 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 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.

² Tested at conditions included in with 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 Integrated Part Load Value tested at 80°F (27°C) outdoor air temperature.

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

⁵ Stocked models are available with standard static drives. High static drives are factory installed (configure to order). Low static drive can be factory installed (configure to order) or standard static drives can be converted to low static with field installed kit.

| SPECIFICATIONS - GAS HEAT | | 15 - 17.5 TON | | |
|---|-----------------------------|---|------------------|----------------|
| Usage Data | Model No. | TGA180S2B, TGA180H2B, TGA210S2B, or TGA210H2B | | |
| Gas Heating Performance | Heat Input Type | Standard (2 Stage) | Medium (2 Stage) | High (2 Stage) |
| | Input - Btuh | First Stage | 169,000 | 234,000 |
| | | Second Stage | 260,000 | 360,000 |
| | Output - Btuh | Second Stage | 208,000 | 288,000 |
| | Temperature Rise Range - °F | 15 - 45 | 30 - 60 | 40 - 70+ |
| | CSA Thermal Efficiency | | 80.0% | |
| | Gas Supply Connections | | 1 in. NPT | |
| Recommended Gas Supply Pressure - Natural / LPG/Propane | | 7 in. w.g. / 10.8 in. w.g. | | |

| SPECIFICATIONS - GAS HEAT | | 20 - 25 TON | | |
|---|-----------------------------|--|------------------|-----------------|
| Usage Data | Model No. | TGA240S2B, TGA240H2B, or TGA300S2B | | |
| Gas Heating Performance | Heat Input Type | Standard (2 Stage) | Medium (2 Stage) | High (2 Stage) |
| | Input - Btuh (KW) | First Stage | 169,000 (49.5) | 234,000 (68.6) |
| | | Second Stage | 260,000 (76.2) | 360,000 (105.5) |
| | Output - Btuh (kW) | Second Stage | 208,000 (60.9) | 288,000 (84.4) |
| | Temperature Rise Range - °F | 15 - 45 | 30 - 60 | 40 - 70+ |
| | CSA Thermal Efficiency | | 80.0% | |
| | Gas Supply Connections | | 1 in. NPT | |
| Recommended Gas Supply Pressure - Natural / LPG/Propane | | 7 in. w.g. (1.7 kPa) / 11 in. w.g. (2.7 kPa) | | |

HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 2000 ft. above sea level without any modifications.
At altitudes above 2000 ft. units must be derated to match information in the table shown.
At altitudes above 4500 ft. unit must be derated 2% for each 1000 ft. above sea level.
NOTE - This is the only permissible derate for these units.

| Heat Input Type | Altitude Feet | Gas Manifold Pressure in. w.g. | | Input Rate (Btuh) |
|--------------------|---------------|--------------------------------|--------------|-------------------|
| | | Natural Gas | LPG/ Propane | |
| Standard (2 stage) | 2001 - 4500 | 3.4/1.6 | 9.6/5.5 | 249,000/ 169,000 |
| Medium (2 stage) | 2001 - 4500 | 3.4/1.6 | 9.6/5.5 | 345,000/ 230,000 |
| High (2 stage) | 2001 - 4500 | 3.4/1.6 | 9.6/5.5 | 460,000/ 312,000 |

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.

15 TON STANDARD EFFICIENCY - TWO COMPRESSORS OPERATING

TGA180S

| Entering Wet Bulb Temper- ture | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|-------|------------------------------|--------------|--|--------|------------------------------|--------------|------------------------------|--------------|--|------|------------------------------|--------------|------------------------------|--------|--|--------------|------------------------------|--------------|------------------------------|-------|--|--------------|--------------|
| | | 65°F (18°C) | | | | | | 75°F (24°C) | | | | | | 85°F (29°C) | | | | | | 95°F (35°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 | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 4800 | 2265 | 126.5 | 37.1 | .72 | .81 | .95 | 123.2 | 36.1 | .97 | .68 | .82 | .96 | 119.3 | 35.0 | 8.79 | .69 | .84 | .97 | 114.9 | 33.7 | 9.73 | .70 | .85 | .99 | |
| | 6000 | 2830 | 131.3 | 38.5 | .73 | .89 | 1.00 | 127.9 | 37.5 | 8.06 | .73 | .90 | 1.00 | 123.9 | 36.3 | 8.89 | .74 | .91 | 1.00 | 119.3 | 35.0 | 9.83 | .76 | .94 | 1.00 | |
| | 7200 | 3400 | 135.1 | 39.6 | .743 | .78 | .95 | 1.00 | 131.7 | 38.6 | 8.15 | .79 | .96 | 1.00 | 127.7 | 37.4 | 8.97 | .80 | .98 | 1.00 | 123.2 | 36.1 | 9.92 | .82 | .99 | 1.00 |
| 67°F (19°C) | 4800 | 2265 | 134.4 | 39.4 | 7.42 | .53 | .65 | .77 | 130.9 | 38.4 | 8.13 | .53 | .66 | .79 | 126.9 | 37.2 | 8.95 | .54 | .66 | .80 | 122.2 | 35.8 | 9.90 | .54 | .67 | .82 |
| | 6000 | 2830 | 138.6 | 40.6 | 7.51 | .56 | .70 | .85 | 135.0 | 39.6 | 8.22 | .56 | .71 | .86 | 130.7 | 38.3 | 9.04 | .57 | .72 | .88 | 126.0 | 36.9 | 9.99 | .58 | .73 | .90 |
| | 7200 | 3400 | 141.6 | 41.5 | 7.58 | .59 | .75 | .92 | 138.0 | 40.4 | 8.28 | .59 | .76 | .94 | 133.6 | 39.2 | 9.11 | .60 | .78 | .95 | 128.6 | 37.7 | 10.06 | .61 | .80 | .97 |
| 71°F (22°C) | 4800 | 2265 | 142.9 | 41.9 | 7.61 | .40 | .51 | .63 | 139.3 | 40.8 | 8.31 | .40 | .52 | .63 | 135.1 | 39.6 | 9.13 | .41 | .52 | .64 | 130.3 | 38.2 | 10.09 | .41 | .53 | .65 |
| | 6000 | 2830 | 147.0 | 43.1 | 7.70 | .41 | .54 | .68 | 143.4 | 42.0 | 8.40 | .41 | .55 | .68 | 139.0 | 40.7 | 9.23 | .41 | .56 | .69 | 134.0 | 39.3 | 10.18 | .42 | .56 | .71 |
| | 7200 | 3400 | 149.8 | 43.9 | 7.77 | .42 | .57 | .73 | 146.2 | 42.8 | 8.46 | .42 | .58 | .74 | 141.6 | 41.5 | 9.28 | .43 | .59 | .75 | 136.4 | 40.0 | 10.25 | .43 | .60 | .77 |

15 TON STANDARD EFFICIENCY - ALL COMPRESSORS OPERATING

TGA180S

| Entering Wet Bulb Temper- ture | 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 | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 4800 | 2265 | 176.1 | 51.6 | 13.42 | .70 | .85 | .98 | 169.6 | 49.7 | 14.86 | .71 | .86 | .99 | 163.0 | 47.8 | 16.48 | .73 | .88 | 1.00 | 156.3 | 45.8 | 18.34 | .74 | .90 | 1.00 |
| | 6000 | 2830 | 182.9 | 53.6 | 13.58 | .76 | .92 | 1.00 | 176.1 | 51.6 | 15.02 | .77 | .94 | 1.00 | 169.3 | 49.6 | 16.67 | .79 | .96 | 1.00 | 162.3 | 47.6 | 18.54 | .81 | .98 | 1.00 |
| | 7200 | 3400 | 188.5 | 55.2 | 13.70 | .81 | .98 | 1.00 | 181.9 | 53.3 | 15.16 | .83 | 1.00 | 1.00 | 175.3 | 51.4 | 16.82 | .85 | 1.00 | 1.00 | 168.6 | 49.4 | 18.72 | .87 | 1.00 | 1.00 |
| 67°F (19°C) | 4800 | 2265 | 187.3 | 54.9 | 13.67 | .55 | .68 | .81 | 180.4 | 52.9 | 15.13 | .56 | .69 | .83 | 173.2 | 50.8 | 16.78 | .56 | .70 | .84 | 166.0 | 48.6 | 18.65 | .57 | .71 | .87 |
| | 6000 | 2830 | 193.0 | 56.6 | 13.81 | .58 | .73 | .89 | 186.0 | 54.5 | 15.27 | .59 | .75 | .91 | 178.4 | 52.3 | 16.94 | .60 | .76 | .93 | 170.7 | 50.0 | 18.82 | .61 | .78 | .95 |
| | 7200 | 3400 | 197.3 | 57.8 | 13.92 | .61 | .79 | .96 | 189.9 | 55.7 | 15.38 | .62 | .81 | .98 | 182.2 | 53.4 | 17.03 | .63 | .83 | .99 | 174.3 | 51.1 | 18.93 | .65 | .85 | 1.00 |
| 71°F (22°C) | 4800 | 2265 | 199.4 | 58.4 | 13.95 | .41 | .53 | .65 | 192.3 | 56.4 | 15.43 | .42 | .54 | .66 | 184.7 | 54.1 | 17.10 | .42 | .55 | .68 | 177.0 | 51.9 | 18.99 | .42 | .56 | .69 |
| | 6000 | 2830 | 205.2 | 60.1 | 14.10 | .42 | .57 | .71 | 197.8 | 58.0 | 15.56 | .43 | .58 | .72 | 189.9 | 55.7 | 17.23 | .43 | .58 | .74 | 181.6 | 53.2 | 19.17 | .44 | .60 | .76 |
| | 7200 | 3400 | 209.1 | 61.3 | 14.19 | .44 | .60 | .77 | 201.4 | 59.0 | 15.67 | .44 | .61 | .78 | 193.4 | 56.7 | 17.34 | .45 | .62 | .80 | 184.7 | 54.1 | 19.25 | .45 | .64 | .83 |

15 TON HIGH EFFICIENCY - TWO COMPRESSORS OPERATING

TGA180H

| Entering Wet Bulb Temper- ture | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|-------|------------------------------|--------------|--|--------|------------------------------|--------------|------------------------------|--------------|--|-----|------------------------------|--------------|------------------------------|--------|--|--------------|------------------------------|--------------|------------------------------|------|--|--------------|--------------|
| | | 65°F (18°C) | | | | | | 75°F (24°C) | | | | | | 85°F (29°C) | | | | | | 95°F (35°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 | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 4800 | 2265 | 124.8 | 36.6 | .64 | .81 | .94 | 122.3 | 35.8 | 7.24 | .67 | .81 | .95 | 118.9 | 34.8 | 7.96 | .68 | .83 | .97 | 114.9 | 33.7 | 8.79 | .69 | .84 | .98 | |
| | 6000 | 2830 | 129.5 | 38.0 | 6.73 | .71 | .88 | 1.00 | 126.9 | 37.2 | 7.33 | .72 | .89 | 1.00 | 123.4 | 36.2 | 8.04 | .73 | .91 | 1.00 | 119.3 | 35.0 | 8.86 | .75 | .92 | 1.00 |
| | 7200 | 3400 | 133.2 | 39.0 | 6.80 | .77 | .95 | 1.00 | 130.6 | 38.3 | 7.39 | .78 | .96 | 1.00 | 127.2 | 37.3 | 8.10 | .79 | .97 | 1.00 | 123.1 | 36.1 | 8.93 | .81 | .99 | 1.00 |
| 67°F (19°C) | 4800 | 2265 | 132.5 | 38.8 | 6.79 | .52 | .64 | .77 | 129.9 | 38.1 | 7.38 | .53 | .65 | .78 | 126.5 | 37.1 | 8.09 | .53 | .65 | .79 | 122.2 | 35.8 | 8.91 | .54 | .66 | .80 |
| | 6000 | 2830 | 136.6 | 40.0 | 6.88 | .55 | .69 | .85 | 134.0 | 39.3 | 7.46 | .56 | .70 | .86 | 130.4 | 38.2 | 8.16 | .56 | .71 | .87 | 126.0 | 36.9 | 8.98 | .57 | .72 | .89 |
| | 7200 | 3400 | 139.5 | 40.9 | 6.94 | .58 | .75 | .92 | 136.9 | 40.1 | 7.51 | .58 | .75 | .93 | 133.2 | 39.0 | 8.21 | .59 | .77 | .94 | 128.8 | 37.7 | 9.03 | .60 | .78 | .96 |
| 71°F (22°C) | 4800 | 2265 | 140.7 | 41.2 | 6.9 | | | | | | | | | | | | | | | | | | | | | |

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.

17.5 TON STANDARD EFFICIENCY - TWO COMPRESSORS OPERATING

TGA210S

| Entering Wet Bulb Temper- ature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|-------|------------------------------|--------------|--|-------|------------------------------|--------------|------------------------------|--------------|--|-----|------------------------------|--------------|------------------------------|-------|--|--------------|------------------------------|--------------|------------------------------|-------|--|--------------|--------------|
| | | 65°F (18°C) | | | | | | 75°F (24°C) | | | | | | 85°F (29°C) | | | | | | 95°F (35°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 | kBtuh | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 5600 | 2645 | 150.4 | 44.1 | .8.18 | .65 | .79 | .92 | 146.0 | 42.8 | 9.15 | .66 | .80 | .93 | 141.5 | 41.5 | 10.23 | .66 | .81 | .95 | 136.6 | 40.0 | 11.45 | .67 | .83 | .96 |
| | 7000 | 3305 | 155.8 | 45.7 | .8.28 | .69 | .86 | .99 | 151.2 | 44.3 | 9.27 | .70 | .87 | .99 | 146.5 | 42.9 | 10.35 | .72 | .89 | 1.00 | 141.5 | 41.5 | 11.59 | .73 | .91 | 1.00 |
| | 8400 | 3965 | 160.1 | 46.9 | .8.37 | .74 | .92 | 1.00 | 155.4 | 45.5 | 9.37 | .76 | .94 | 1.00 | 150.5 | 44.1 | 10.45 | .77 | .95 | 1.00 | 145.4 | 42.6 | 11.69 | .79 | .97 | 1.00 |
| 67°F (19°C) | 5600 | 2645 | 159.6 | 46.8 | .8.35 | .52 | .63 | .75 | 154.9 | 45.4 | 9.35 | .52 | .63 | .76 | 150.0 | 44.0 | 10.43 | .52 | .64 | .78 | 144.7 | 42.4 | 11.65 | .53 | .65 | .79 |
| | 7000 | 3305 | 164.5 | 48.2 | .8.45 | .54 | .67 | .82 | 159.5 | 46.7 | 9.45 | .54 | .68 | .84 | 154.3 | 45.2 | 10.54 | .55 | .69 | .85 | 148.8 | 43.6 | 11.77 | .56 | .71 | .87 |
| | 8400 | 3965 | 168.0 | 49.2 | .8.52 | .56 | .72 | .89 | 162.7 | 47.7 | 9.52 | .57 | .73 | .90 | 157.4 | 46.1 | 10.63 | .58 | .75 | .92 | 151.7 | 44.5 | 11.86 | .58 | .76 | .94 |
| 71°F (22°C) | 5600 | 2645 | 169.5 | 49.7 | .8.55 | .39 | .50 | .60 | 164.5 | 48.2 | 9.56 | .39 | .50 | .61 | 159.3 | 46.7 | 10.67 | .39 | .51 | .62 | 153.7 | 45.0 | 11.91 | .40 | .51 | .63 |
| | 7000 | 3305 | 174.5 | 51.1 | .8.64 | .40 | .52 | .65 | 169.1 | 49.6 | 9.67 | .40 | .53 | .66 | 163.5 | 47.9 | 10.79 | .40 | .54 | .67 | 157.7 | 46.2 | 12.03 | .41 | .54 | .68 |
| | 8400 | 3965 | 177.8 | 52.1 | .8.71 | .41 | .55 | .70 | 172.3 | 50.5 | 9.74 | .41 | .56 | .71 | 166.5 | 48.8 | 10.87 | .41 | .57 | .72 | 160.4 | 47.0 | 12.12 | .42 | .58 | .74 |

17.5 TON STANDARD EFFICIENCY - ALL COMPRESSORS OPERATING

TGA210S

| Entering Wet Bulb Temper- ature | 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 | kBtuh | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 5600 | 2645 | 208.5 | 61.1 | .15.55 | .69 | .83 | .96 | 201.3 | 59.0 | 17.41 | .70 | .85 | .98 | 193.4 | 56.7 | 19.51 | .71 | .87 | .99 | 184.8 | 54.2 | 21.92 | .72 | .89 | 1.00 |
| | 7000 | 3305 | 215.9 | 63.3 | .15.74 | .74 | .90 | 1.00 | 208.5 | 61.1 | 17.62 | .75 | .92 | 1.00 | 200.2 | 58.7 | 19.73 | .77 | .94 | 1.00 | 191.3 | 56.1 | 22.17 | .79 | .96 | 1.00 |
| | 8400 | 3965 | 221.9 | 65.0 | .15.90 | .79 | .97 | 1.00 | 214.3 | 62.8 | 17.78 | .81 | .98 | 1.00 | 206.1 | 60.4 | 19.93 | .83 | 1.00 | 1.00 | 197.4 | 57.9 | 22.35 | .85 | 1.00 | 1.00 |
| 67°F (19°C) | 5600 | 2645 | 221.0 | 64.8 | .15.86 | .54 | .67 | .80 | 213.2 | 62.5 | 17.72 | .55 | .68 | .81 | 204.8 | 60.0 | 19.85 | .55 | .69 | .83 | 195.5 | 57.3 | 22.26 | .56 | .70 | .85 |
| | 7000 | 3305 | 227.3 | 66.6 | .16.04 | .57 | .72 | .87 | 219.2 | 64.2 | 17.90 | .58 | .73 | .89 | 210.3 | 61.6 | 20.03 | .59 | .75 | .91 | 200.4 | 58.7 | 22.47 | .60 | .77 | .94 |
| | 8400 | 3965 | 231.8 | 67.9 | .16.17 | .60 | .77 | .94 | 223.4 | 65.5 | 18.04 | .61 | .79 | .96 | 214.3 | 62.8 | 20.18 | .62 | .81 | .97 | 204.2 | 59.8 | 22.63 | .63 | .83 | .99 |
| 71°F (22°C) | 5600 | 2645 | 234.7 | 68.8 | .16.24 | .41 | .53 | .64 | 226.4 | 66.4 | 18.13 | .41 | .53 | .65 | 217.5 | 63.7 | 20.29 | .41 | .54 | .66 | 207.5 | 60.8 | 22.72 | .42 | .55 | .68 |
| | 7000 | 3305 | 240.9 | 70.6 | .16.42 | .42 | .56 | .69 | 232.2 | 68.1 | 18.31 | .42 | .56 | .71 | 222.8 | 65.3 | 20.47 | .42 | .57 | .72 | 212.4 | 62.2 | 22.92 | .43 | .59 | .74 |
| | 8400 | 3965 | 245.2 | 71.9 | .16.54 | .43 | .59 | .75 | 236.2 | 69.2 | 18.45 | .43 | .60 | .76 | 226.4 | 66.4 | 20.59 | .44 | .61 | .78 | 215.6 | 63.2 | 23.07 | .44 | .62 | .81 |

17.5 TON HIGH EFFICIENCY - TWO COMPRESSORS OPERATING

TGA210H

| Entering Wet Bulb Temper- ature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|-------|------------------------------|--------------|--|-------|------------------------------|--------------|------------------------------|--------------|--|-----|------------------------------|--------------|------------------------------|-------|--|--------------|------------------------------|--------------|------------------------------|------|--|--------------|--------------|
| | | 65°F (18°C) | | | | | | 75°F (24°C) | | | | | | 85°F (29°C) | | | | | | 95°F (35°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 | kBtuh | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C |
| 63°F (17°C) | 5600 | 2645 | 111.0 | 32.5 | .5.36 | .60 | .76 | .93 | 107.4 | 31.5 | 5.94 | .61 | .78 | .95 | 103.8 | 30.4 | 6.58 | .62 | .80 | .97 | 100.0 | 29.3 | 7.32 | .63 | .82 | .99 |
| | 7000 | 3305 | 115.4 | 33.8 | .5.42 | .65 | .86 | 1.00 | 111.8 | 32.8 | 6.00 | .67 | .88 | 1.00 | 108.0 | 31.7 | 6.66 | .68 | .90 | 1.00 | 104.2 | 30.5 | 7.40 | .70 | .93 | 1.00 |
| | 8400 | 3965 | 119.2 | 34.9 | .5.48 | .72 | .95 | 1.00 | 115.6 | 33.9 | 6.06 | .74 | .96 | 1.00 | 111.8 | 32.8 | 6.72 | .76 | .99 | 1.00 | 108.0 | 31.7 | 7.46 | .78 | 1.00 | 1.00 |
| 67°F (19°C) | 5600 | 2645 | 118.2 | 34.6 | .5.46 | .48 | .58 | .71 | 114.4 | 33.5 | 6.04 | .48 | .59 | .73 | 110.6 | 32.4 | 6.70 | .48 | .60 | .75 | 106.4 | 31.2 | 7.44 | .49 | .61 | .77 |
| | 7000 | 3305 | 122.2 | 35.8 | .5.54 | .50 | .63 | .81 | 118.4 | 34.7 | 6.10 | .50 | .63 | .83 | 114.2 | 33.5 | 6.76 | .51 | .65 | .86 | 110.0 | 32.2 | 7.52 | .52 | .67 | .88 |
| | 8400 | 3965 | 125.2 | 36.7 | .5.58 | .53 | .69 | .90 | 121.2 | 35.5 | 6.16 | .53 | .71 | .93 | 117.0 | 34.3 | 6.82 | .54 | .73 | .95 | 112.4 | 32.9 | 7.56 | .55 | .75 | .98 |
| 71°F (22°C) | | | | | | | | | | | | | | | | | | | | | | | | | | |

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.

20 TON STANDARD EFFICIENCY - TWO COMPRESSORS OPERATING

TGA240S

| Entering Wet Bulb Temper- ture | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|---|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|--------------|--------------|------|-------|-----|-----|------|
| | | 65°F (18°C) | | | | | | 75°F (24°C) | | | | | | 85°F (29°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 | 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 | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | | | | | |
| 63°F (17°C) | 6400 | 3020 | 169.4 | 49.6 | 8.96 | .65 | .79 | .93 | 164.6 | 48.2 | 9.99 | .66 | .81 | .94 | 159.6 | 46.8 | 11.15 | .66 | .82 | .96 | 154.1 | 45.2 | 12.48 | .67 | .84 | .97 |
| | 8000 | 3775 | 175.6 | 51.5 | 9.07 | .69 | .86 | .99 | 170.5 | 50.0 | 10.09 | .70 | .88 | 1.00 | 165.3 | 48.4 | 11.27 | .72 | .89 | 1.00 | 159.6 | 46.8 | 12.59 | .73 | .91 | 1.00 |
| | 9600 | 4530 | 180.3 | 52.8 | 9.17 | .75 | .93 | 1.00 | 175.1 | 51.3 | 10.19 | .76 | .94 | 1.00 | 169.9 | 49.8 | 11.37 | .77 | .96 | 1.00 | 164.3 | 48.2 | 12.70 | .79 | .97 | 1.00 |
| 67°F (19°C) | 6400 | 3020 | 179.9 | 52.7 | 9.15 | .51 | .63 | .75 | 174.7 | 51.2 | 10.17 | .52 | .63 | .77 | 169.2 | 49.6 | 11.33 | .52 | .64 | .78 | 163.4 | 47.9 | 12.67 | .53 | .65 | .80 |
| | 8000 | 3775 | 185.3 | 54.3 | 9.26 | .54 | .67 | .83 | 179.8 | 52.7 | 10.28 | .54 | .68 | .84 | 174.1 | 51.0 | 11.44 | .55 | .69 | .86 | 168.0 | 49.2 | 12.77 | .55 | .71 | .88 |
| | 9600 | 4530 | 189.1 | 55.4 | 9.34 | .56 | .72 | .90 | 183.5 | 53.8 | 10.36 | .57 | .73 | .91 | 177.5 | 52.0 | 11.52 | .58 | .75 | .93 | 171.2 | 50.2 | 12.86 | .58 | .77 | .95 |
| 71°F (22°C) | 6400 | 3020 | 191.3 | 56.1 | 9.38 | .39 | .50 | .60 | 185.8 | 54.5 | 10.40 | .39 | .50 | .61 | 179.9 | 52.7 | 11.56 | .39 | .51 | .62 | 173.8 | 50.9 | 12.91 | .39 | .51 | .63 |
| | 8000 | 3775 | 196.7 | 57.6 | 9.49 | .40 | .52 | .65 | 190.9 | 55.9 | 10.50 | .40 | .53 | .66 | 184.8 | 54.2 | 11.67 | .40 | .53 | .67 | 178.3 | 52.3 | 13.01 | .40 | .54 | .68 |
| | 9600 | 4530 | 200.4 | 58.7 | 9.56 | .41 | .55 | .70 | 194.4 | 57.0 | 10.58 | .41 | .56 | .71 | 188.1 | 55.1 | 11.75 | .41 | .56 | .73 | 181.2 | 53.1 | 13.09 | .42 | .57 | .74 |

20 TON STANDARD EFFICIENCY - ALL COMPRESSORS OPERATING

TGA240S

| Entering Wet Bulb Temper- ature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|--------------|--------------|------|-------|-----|------|------|
| | | 85°F (29°C) | | | | | | 95°F (35°C) | | | | | | 105°F (41°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 | 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 | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | | | | | |
| 63°F (17°C) | 6400 | 3020 | 230.9 | 67.7 | 16.79 | .70 | .85 | .98 | 223.0 | 65.4 | 18.80 | .71 | .86 | 1.00 | 214.7 | 62.9 | 21.07 | .72 | .88 | 1.00 | 205.9 | 60.3 | 23.66 | .73 | .90 | 1.00 |
| | 8000 | 3775 | 239.1 | 70.1 | 16.97 | .75 | .92 | 1.00 | 231.1 | 67.7 | 18.96 | .76 | .94 | 1.00 | 222.5 | 65.2 | 21.28 | .78 | .96 | 1.00 | 213.2 | 62.5 | 23.88 | .80 | .98 | 1.00 |
| | 9600 | 4530 | 245.8 | 72.0 | 17.12 | .80 | .98 | 1.00 | 237.7 | 69.7 | 19.12 | .82 | 1.00 | 1.00 | 229.0 | 67.1 | 21.44 | .84 | 1.00 | 1.00 | 220.1 | 64.5 | 24.08 | .86 | 1.00 | 1.00 |
| 67°F (19°C) | 6400 | 3020 | 244.8 | 71.7 | 17.07 | .55 | .67 | .81 | 236.4 | 69.3 | 19.08 | .55 | .68 | .83 | 227.6 | 66.7 | 21.34 | .56 | .69 | .84 | 217.9 | 63.9 | 23.95 | .57 | .71 | .87 |
| | 8000 | 3775 | 251.8 | 73.8 | 17.22 | .58 | .72 | .89 | 243.0 | 71.2 | 19.23 | .58 | .74 | .91 | 233.7 | 68.5 | 21.52 | .59 | .75 | .93 | 223.6 | 65.5 | 24.13 | .60 | .77 | .95 |
| | 9600 | 4530 | 256.8 | 75.3 | 17.34 | .60 | .78 | .95 | 247.7 | 72.6 | 19.35 | .61 | .80 | .97 | 238.1 | 69.8 | 21.65 | .62 | .82 | .99 | 227.9 | 66.8 | 24.27 | .64 | .84 | 1.00 |
| 71°F (22°C) | 6400 | 3020 | 260.4 | 76.3 | 17.41 | .41 | .53 | .65 | 251.6 | 73.7 | 19.43 | .41 | .54 | .66 | 241.9 | 70.9 | 21.75 | .42 | .54 | .67 | 231.7 | 67.9 | 24.39 | .42 | .55 | .69 |
| | 8000 | 3775 | 267.4 | 78.4 | 17.56 | .42 | .56 | .70 | 258.0 | 75.6 | 19.59 | .42 | .57 | .71 | 247.8 | 72.6 | 21.91 | .43 | .58 | .73 | 237.2 | 69.5 | 24.57 | .43 | .59 | .75 |
| | 9600 | 4530 | 272.1 | 79.7 | 17.68 | .43 | .59 | .76 | 262.3 | 76.9 | 19.71 | .44 | .60 | .77 | 252.0 | 73.9 | 22.03 | .44 | .61 | .79 | 241.0 | 70.6 | 24.67 | .45 | .63 | .82 |

20 TON HIGH EFFICIENCY - TWO COMPRESSORS OPERATING

TGA240H

| Entering Wet Bulb Temper- ature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | | |
|---|------------------------|---|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|------------------------------|------------------------------|--|--------------|--------------|------|------|-----|-----|------|
| | | 65°F (18°C) | | | | | | 75°F (24°C) | | | | | | 85°F (29°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 | 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 | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtu/h | kW | 75°F 24°C | 80°F 27°C | 85°F 29°C | | | | | |
| 63°F (17°C) | 6400 | 3020 | 130.0 | 38.1 | 6.04 | .59 | .74 | .92 | 126.2 | 37.0 | 6.78 | .60 | .76 | .93 | 122.2 | 35.8 | 7.64 | .61 | .78 | .95 | 118.0 | 34.6 | 8.62 | .61 | .80 | .97 |
| | 8000 | 3775 | 135.0 | 39.6 | 6.10 | .64 | .84 | 1.00 | 131.0 | 38.4 | 6.82 | .65 | .86 | 1.00 | 127.0 | 37.2 | 7.68 | .67 | .88 | 1.00 | 122.4 | 35.9 | 8.68 | .68 | .90 | 1.00 |
| | 9600 | 4530 | 139.2 | 40.8 | 6.12 | .70 | .93 | 1.00 | 135.2 | 39.6 | 6.86 | .72 | .95 | 1.00 | 130.8 | 38.3 | 7.72 | .74 | .97 | 1.00 | 126.4 | 37.0 | 8.72 | .76 | .99 | 1.00 |
| 67°F (19°C) | 6400 | 3020 | 138.0 | 40.4 | 6.12 | .47 | .57 | .70 | 134.0 | 39.3 | 6.86 | .47 | .58 | .72 | 129.6 | 38.0 | 7.72 | .47 | .58 | .73 | 125.0 | 36.6 | 8.72 | .48 | .59 | .75 |
| | 8000 | 3775 | 142.6 | 41.8 | 6.16 | .49 | .61 | .79 | 138.4 | 40.6 | 6.92 | .50 | .62 | .81 | 133.8 | 39.2 | 7.76 | .50 | .64 | .84 | 129.0 | 37.8 | 8.76 | .51 | .65 | .86 |
| | 9600 | 4530 | 146.0 | 42.8 | 6.20 | .52 | .67 | .89 | 141.6 | 41.5 | 6.94 | .52 | .69 | .91 | 136.8 | 40.1 | 7.80 | .53 | .71 | .93 | 131.8 | 38.6 | 8.80 | .54 | .73 | .95 |
| 71°F (22°C) | 6400 | 3020 | 147.0 | 43.1 | 6.20 | .36 | .45 | .55 | 142.8 | 41.9 | 6.94 | .36 | .46 | .65 | 138.0 | 40.4 | 7.82 | .36 | .46 | .66 | 133.2 | 39.0 | 8.82 | .36 | .47 | .77 |
| | 8000 | 3775 | 151.6 | 44.4 | 6.24 | .36 | .48 | .59 | 147.0 | 43.1 | 7.00 | .36 | .48 | .60 | 142.2 | 41.7 | 7.86 | .37 | .49 | .61 | 137.0 | 40.2 | 8.86 | .37 | .50 | .62 |
| | 9600 | 4530 | 154.8 | 45.4 | 6.28 | .37 | .51 | .65 | 150.0 | 44.0 | 7.04 | .38 | .51 | .66 | 144.8 | 42.4 | 7.90 | .38 | .52 | .68 | 1 | | | | | |

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.

25 TON STANDARD EFFICIENCY - TWO COMPRESSORS OPERATING

TGA300S

| Entering Wet Bulb Temper- ture | Total Air Volume | | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|--|------------------------|------|---|---------------------|--|--------------|--------------|--------------|-------|------|------------------------------|---------------------|--|--------------|--------------|--------------|-------|-----|------------------------------|---------------------|--|------|-------|-----|------|------|
| | | | 65°F (18°C) | | | | 75°F (24°C) | | | | 85°F (29°C) | | | | 95°F (35°C) | | | | | | | | | | | |
| | cfm | L/s | Total Cooling Capacity | Comp Motor kW | Sensible To Total Ratio (S/T) Dry Bulb | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | Total Cooling Capacity | Comp Motor kW | Sensible To Total Ratio (S/T) Dry Bulb | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | kW | Total Cooling Capacity | Comp Motor kW | Sensible To Total Ratio (S/T) Dry Bulb | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63°F (17°C) | 8000 | 3775 | 149.4 | 43.8 | .828 | .57 | .74 | .93 | 144.8 | 42.4 | 9.28 | .58 | .76 | .95 | 140.0 | 41.0 | 10.36 | .59 | .78 | .97 | 135.0 | 39.6 | 11.58 | .60 | .81 | .99 |
| | 10000 | 4720 | 155.2 | 45.5 | 8.38 | .62 | .85 | 1.00 | 150.2 | 44.0 | 9.40 | .64 | .87 | 1.00 | 145.2 | 42.6 | 10.48 | .66 | .90 | 1.00 | 140.0 | 41.0 | 11.70 | .68 | .93 | 1.00 |
| | 12000 | 5665 | 159.8 | 46.8 | 8.46 | .69 | .94 | 1.00 | 154.8 | 45.4 | 9.48 | .71 | .97 | 1.00 | 149.8 | 43.9 | 10.58 | .74 | .98 | 1.00 | 144.8 | 42.4 | 11.82 | .76 | 1.00 | 1.00 |
| 67°F (19°C) | 8000 | 3775 | 158.4 | 46.4 | 8.42 | .45 | .55 | .69 | 153.4 | 45.0 | 9.44 | .45 | .56 | .71 | 148.2 | 43.4 | 10.54 | .46 | .57 | .73 | 142.8 | 41.9 | 11.76 | .46 | .58 | .76 |
| | 10000 | 4720 | 163.4 | 47.9 | 8.52 | .47 | .60 | .80 | 158.0 | 46.3 | 9.54 | .48 | .60 | .82 | 152.6 | 44.7 | 10.66 | .49 | .62 | .85 | 146.8 | 43.0 | 11.88 | .49 | .64 | .88 |
| | 12000 | 5665 | 167.0 | 48.9 | 8.58 | .50 | .66 | .90 | 161.4 | 47.3 | 9.62 | .51 | .68 | .93 | 155.8 | 45.7 | 10.72 | .51 | .71 | .95 | 149.8 | 43.9 | 11.96 | .52 | .73 | .97 |
| 71°F (22°C) | 8000 | 3775 | 168.6 | 49.4 | 8.60 | .34 | .44 | .53 | 163.2 | 47.8 | 9.66 | .34 | .44 | .54 | 157.6 | 46.2 | 10.78 | .34 | .45 | .55 | 151.6 | 44.4 | 12.00 | .34 | .45 | .56 |
| | 10000 | 4720 | 173.4 | 50.8 | 8.70 | .35 | .46 | .58 | 167.6 | 49.1 | 9.74 | .35 | .47 | .59 | 161.8 | 47.4 | 10.86 | .35 | .48 | .60 | 155.6 | 45.6 | 12.12 | .35 | .48 | .61 |
| | 12000 | 5665 | 176.6 | 51.8 | 8.76 | .36 | .49 | .63 | 170.6 | 50.0 | 9.80 | .36 | .50 | .66 | 164.6 | 48.2 | 10.94 | .36 | .51 | .68 | 158.2 | 46.4 | 12.20 | .37 | .52 | .70 |

25 TON STANDARD EFFICIENCY - ALL COMPRESSORS OPERATING

TGA300S

| Entering Wet Bulb Temper- ature | 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) | | | | | | | | | | | |
| | cfm | L/s | Total Cooling Capacity | Comp Motor kW | Sensible To Total Ratio (S/T) Dry Bulb | 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 | 75°F 24°C | 80°F 27°C | 85°F 29°C | kBtuh | 75°F 24°C | 80°F 27°C | 85°F 29°C | | | | | |
| | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 63°F (17°C) | 8000 | 3775 | 291.6 | 85.5 | 20.84 | .69 | .85 | 1.00 | 281.2 | 82.4 | 23.30 | .70 | .87 | 1.00 | 270.0 | 79.1 | 26.04 | .71 | .90 | 1.00 | 257.8 | 75.6 | 29.16 | .73 | .92 | 1.00 |
| | 10000 | 4720 | 302.4 | 88.6 | 21.08 | .74 | .95 | 1.00 | 291.8 | 85.5 | 23.54 | .76 | .97 | 1.00 | 280.2 | 82.1 | 26.32 | .78 | 1.00 | 1.00 | 268.0 | 78.5 | 29.46 | .81 | 1.00 | 1.00 |
| | 12000 | 5665 | 311.8 | 91.4 | 21.28 | .81 | 1.00 | 1.00 | 301.4 | 88.3 | 23.78 | .84 | 1.00 | 1.00 | 290.0 | 85.0 | 26.60 | .86 | 1.00 | 1.00 | 278.0 | 81.5 | 29.80 | .89 | 1.00 | 1.00 |
| 67°F (19°C) | 8000 | 3775 | 308.6 | 90.4 | 21.22 | .54 | .67 | .81 | 297.4 | 87.2 | 23.68 | .54 | .68 | .83 | 285.2 | 83.6 | 26.48 | .55 | .69 | .85 | 272.0 | 79.7 | 29.60 | .56 | .70 | .88 |
| | 10000 | 4720 | 317.8 | 93.1 | 21.46 | .57 | .72 | .91 | 306.0 | 89.7 | 23.92 | .58 | .73 | .93 | 293.2 | 85.9 | 26.68 | .59 | .76 | .96 | 279.4 | 81.9 | 29.88 | .60 | .78 | .99 |
| | 12000 | 5665 | 324.6 | 95.1 | 21.58 | .60 | .79 | .99 | 312.4 | 91.6 | 24.06 | .61 | .81 | 1.00 | 299.2 | 87.7 | 26.90 | .62 | .83 | 1.00 | 285.0 | 83.5 | 30.10 | .64 | .87 | 1.00 |
| 71°F (22°C) | 8000 | 3775 | 328.2 | 96.2 | 21.68 | .40 | .52 | .64 | 316.0 | 92.6 | 24.16 | .40 | .53 | .65 | 303.0 | 88.8 | 27.00 | .41 | .54 | .67 | 288.8 | 84.6 | 30.22 | .41 | .55 | .68 |
| | 10000 | 4720 | 337.0 | 98.8 | 21.86 | .41 | .56 | .70 | 324.2 | 95.0 | 24.40 | .42 | .57 | .71 | 310.6 | 91.0 | 27.22 | .42 | .58 | .73 | 295.8 | 86.7 | 30.40 | .43 | .59 | .75 |
| | 12000 | 5665 | 342.8 | 100.5 | 22.02 | .43 | .59 | .76 | 329.6 | 96.6 | 24.54 | .43 | .60 | .78 | 315.6 | 92.5 | 27.38 | .44 | .62 | .81 | 300.2 | 88.0 | 30.58 | .44 | .63 | .84 |

BLOWER DATA
15 TON

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT WITH STANDARD GAS HEAT, WET INDOOR COIL & AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (high gas heat, economizer, etc.). See table below

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 20

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

0.30 to 1.40 in. w.g.

TGA180

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|----------------------------|---------|---------|---------|---------|---------|---------|---------|------------|-------------|------------|--|------------|-------------|------------|-------------|------------|-------------|------------|-------------|------|------|------|------|
| | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00 | 1.10 | 1.20 | 1.30 | 1.40 | | | | | | | | | | | | |
| | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | | | | | | | | | | | | |
| Low Static - 3 HP, Drive Kit A | | | | | | | | | | | | Standard Static - 3 HP, Drive Kit 1 | | | | | | | | | | | | |
| 4800 | 577 | 1.13 | 620 | 1.31 | 662 | 1.48 | 702 | 1.66 | 742 | 1.83 | 777 | 2.01 | 811 | 2.18 | 842 | 2.36 | 872 | 2.54 | 902 | 2.72 | 932 | 2.89 | 960 | 3.07 |
| 5000 | 585 | 1.25 | 628 | 1.43 | 670 | 1.60 | 710 | 1.78 | 750 | 1.95 | 783 | 2.13 | 815 | 2.30 | 848 | 2.50 | 880 | 2.70 | 910 | 2.88 | 940 | 3.05 | 968 | 3.23 |
| 5500 | 605 | 1.45 | 648 | 1.65 | 690 | 1.85 | 728 | 2.05 | 765 | 2.25 | 800 | 2.45 | 835 | 2.65 | 865 | 2.85 | 895 | 3.05 | 925 | 3.25 | 955 | 3.45 | 983 | 3.65 |
| 6000 | 630 | 1.75 | 670 | 1.95 | 710 | 2.15 | 748 | 2.38 | 785 | 2.60 | 818 | 2.83 | 850 | 3.05 | 880 | 3.25 | 910 | 3.45 | 940 | 3.68 | 970 | 3.90 | 998 | 4.13 |
| 6500 | 650 | 2.05 | 690 | 2.28 | 730 | 2.50 | 768 | 2.75 | 805 | 3.00 | 838 | 3.23 | 870 | 3.45 | 900 | 3.70 | 930 | 3.95 | 958 | 4.18 | 985 | 4.40 | 1013 | 4.63 |
| 7000 | 675 | 2.35 | 715 | 2.63 | 755 | 2.90 | 790 | 3.15 | 825 | 3.40 | 858 | 3.68 | 890 | 3.95 | 920 | 4.20 | 950 | 4.45 | 978 | 4.70 | 1005 | 4.95 | 1030 | 5.18 |
| 7200 | 687 | 2.55 | 725 | 2.81 | 763 | 3.06 | 798 | 3.33 | 833 | 3.60 | 866 | 3.86 | 898 | 4.11 | 926 | 4.36 | 954 | 4.61 | 984 | 4.90 | 1013 | 5.19 | 1038 | 5.44 |

NOTE - Bold - To operate in this range, unit must be ordered with High Static Drive and drive kit #3 must be ordered separately for field installation.

1.50 to 2.50 in. w.g.

TGA180

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | | | | | | | | | | | |
|--|----------------------------|---------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------------------------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|------|------|
| | 1.50 | 1.60 | 1.70 | 1.80 | 1.90 | 2.00 | 2.10 | 2.20 | 2.30 | 2.40 | 2.50 | | | | | | | | | | | |
| | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | RPM BHP | | | | | | | | | | | |
| High Static - 5 HP, Drive Kit 4 | | | | | | | | | | | | Field Furnished Drive | | | | | | | | | | |
| 4800 | 987 | 3.24 | 1014 | 3.42 | 1041 | 3.60 | 1064 | 3.78 | 1087 | 3.95 | 1112 | 4.13 | 1136 | 4.30 | 1159 | 4.50 | 1181 | 4.70 | 1204 | 4.88 | 1226 | 5.06 |
| 5000 | 995 | 3.40 | 1020 | 3.60 | 1045 | 3.80 | 1070 | 3.98 | 1095 | 4.15 | 1118 | 4.33 | 1140 | 4.50 | 1163 | 4.70 | 1185 | 4.90 | 1208 | 5.10 | 1230 | 5.30 |
| 5500 | 1010 | 3.85 | 1035 | 4.05 | 1060 | 4.25 | 1085 | 4.48 | 1110 | 4.70 | 1133 | 4.90 | 1155 | 5.10 | 1178 | 5.30 | 1200 | 5.50 | 1220 | 5.70 | 1240 | 5.90 |
| 6000 | 1025 | 4.35 | 1050 | 4.58 | 1075 | 4.80 | 1098 | 5.00 | 1120 | 5.20 | 1145 | 5.43 | 1170 | 5.65 | 1193 | 5.88 | 1215 | 6.10 | 1235 | 6.33 | 1255 | 6.55 |
| 6500 | 1040 | 4.85 | 1065 | 5.10 | 1090 | 5.35 | 1115 | 5.60 | 1140 | 5.85 | 1163 | 6.08 | 1185 | 6.30 | 1205 | 6.53 | 1225 | 6.75 | 1248 | 7.00 | 1270 | 7.25 |
| 7000 | 1055 | 5.40 | 1080 | 5.68 | 1105 | 5.95 | 1130 | 6.20 | 1155 | 6.45 | 1178 | 6.70 | 1200 | 6.95 | 1220 | 7.20 | 1240 | 7.45 | 1263 | 7.73 | 1285 | 8.00 |
| 7200 | 1063 | 5.68 | 1088 | 5.94 | 1113 | 6.19 | 1136 | 6.44 | 1159 | 6.69 | 1182 | 6.96 | 1204 | 7.23 | 1226 | 7.50 | 1248 | 7.77 | 1269 | 8.03 | 1289 | 8.28 |

NOTE - Bold, italics - drive is capable of the values noted but will exceed motor horsepower.

OPTIONS / ACCESSORIES AIR RESISTANCE (in. w.g.)

| Air Volume - cfm | Gas Heat Exchanger | | Economizer | Horizontal Roof Curb |
|------------------|--------------------|-----------|------------|----------------------|
| | Med. Heat | High Heat | | |
| 4800 | .08 | .10 | --- | .08 |
| 5000 | .09 | .11 | --- | .08 |
| 5500 | .10 | .13 | --- | .10 |
| 6000 | .12 | .15 | --- | .11 |
| 6500 | .13 | .17 | .02 | .13 |
| 7000 | .15 | .19 | .04 | .15 |
| 7200 | .16 | .20 | .05 | .16 |

BLOWER DATA

17.5 TON

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT WITH STANDARD GAS HEAT, WET INDOOR COIL & AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

- 1 - Any factory installed options air resistance (high gas heat, economizer, etc.) See table below
 - 2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 20
- Then determine from table the blower motor output and drive required.

0.20 to 1.20 in. w.g.

TGA210

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|---------------------------------------|------|------|------|------|------|------|------|------|------|------|------|--|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-----|-----|
| | 0.20 | | 0.30 | | 0.40 | | 0.50 | | 0.60 | | 0.70 | | 0.80 | | 0.90 | | 1.00 | | 1.10 | | 1.20 | | | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Field Furnished | Low Static - 5 HP, Drive Kit 2 | | | | | | | | | | | | Standard Static - 5 HP, Drive Kit 3 | | | | | | | | | | | |
| 5600 | 609 | 1.51 | 652 | 1.71 | 694 | 1.91 | 732 | 2.12 | 769 | 2.33 | 803 | 2.53 | 837 | 2.73 | 868 | 2.93 | 899 | 3.13 | 928 | 3.33 | 957 | 3.53 | | |
| 6000 | 630 | 1.75 | 670 | 1.95 | 710 | 2.15 | 748 | 2.38 | 785 | 2.60 | 818 | 2.83 | 850 | 3.05 | 880 | 3.25 | 910 | 3.45 | 940 | 3.68 | 970 | 3.90 | | |
| 6500 | 650 | 2.05 | 690 | 2.28 | 730 | 2.50 | 768 | 2.75 | 805 | 3.00 | 838 | 3.23 | 870 | 3.45 | 900 | 3.70 | 930 | 3.95 | 958 | 4.18 | 985 | 4.40 | | |
| 7000 | 675 | 2.35 | 715 | 2.63 | 755 | 2.90 | 790 | 3.15 | 825 | 3.40 | 858 | 3.68 | 890 | 3.95 | 920 | 4.20 | 950 | 4.45 | 978 | 4.70 | 1005 | 4.95 | | |
| 7500 | 700 | 2.75 | 738 | 3.03 | 775 | 3.30 | 810 | 3.58 | 845 | 3.85 | 878 | 4.15 | 910 | 4.45 | 938 | 4.70 | 965 | 4.95 | 993 | 5.23 | 1020 | 5.50 | | |
| 8000 | 725 | 3.20 | 763 | 3.50 | 800 | 3.80 | 833 | 4.08 | 865 | 4.35 | 898 | 4.65 | 930 | 4.95 | 958 | 5.23 | 985 | 5.50 | 1013 | 5.80 | 1040 | 6.10 | | |
| 8400 | 746 | 3.55 | 783 | 3.87 | 819 | 4.18 | 853 | 4.49 | 886 | 4.80 | 916 | 5.12 | 946 | 5.43 | 974 | 5.73 | 1001 | 6.03 | 1029 | 6.35 | 1056 | 6.66 | | |

NOTE - Bold - To operate in this range, unit must be ordered with High Static Drive and drive kit #7 must be ordered separately for field installation.

1.30 to 2.40 in. w.g.

TGA210

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | |
|--|--|------|-------------|------|------|------|------|------|------|------|------|------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|------|------|-------------|-------|
| | 1.30 | | 1.40 | | 1.50 | | 1.60 | | 1.70 | | 1.80 | | 1.90 | | 2.00 | | 2.10 | | 2.20 | | 2.30 | | 2.40 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Standard Static - 5 HP, Drive Kit 3 | High Static - 7.5 HP, Drive Kit 6 | | | | | | | | | | | | | | | | | | | | | | | |
| 5600 | 985 | 3.74 | 1012 | 3.95 | 1037 | 4.15 | 1062 | 4.35 | 1087 | 4.58 | 1112 | 4.80 | 1135 | 5.00 | 1157 | 5.20 | 1180 | 5.41 | 1202 | 5.62 | 1223 | 5.83 | 1244 | 6.04 |
| 6000 | 998 | 4.13 | 1025 | 4.35 | 1050 | 4.58 | 1075 | 4.80 | 1098 | 5.00 | 1120 | 5.20 | 1145 | 5.43 | 1170 | 5.65 | 1193 | 5.88 | 1215 | 6.10 | 1235 | 6.33 | 1255 | 6.55 |
| 6500 | 1013 | 4.63 | 1040 | 4.85 | 1065 | 5.10 | 1090 | 5.35 | 1115 | 5.60 | 1140 | 5.85 | 1163 | 6.08 | 1185 | 6.30 | 1205 | 6.53 | 1225 | 6.75 | 1248 | 7.00 | 1270 | 7.25 |
| 7000 | 1030 | 5.18 | <i>1055</i> | 5.40 | 1080 | 5.68 | 1105 | 5.95 | 1130 | 6.20 | 1155 | 6.45 | 1178 | 6.70 | 1200 | 6.95 | 1220 | 7.20 | 1240 | 7.45 | 1263 | 7.73 | 1285 | 8.00 |
| 7500 | 1048 | 5.78 | 1075 | 6.05 | 1100 | 6.33 | 1125 | 6.60 | 1148 | 6.88 | 1170 | 7.15 | 1193 | 7.40 | 1215 | 7.65 | 1238 | 7.95 | 1260 | 8.25 | 1280 | 8.50 | <i>1300</i> | 8.75 |
| 8000 | 1065 | 6.40 | 1090 | 6.70 | 1115 | 6.98 | 1140 | 7.25 | 1163 | 7.55 | 1185 | 7.85 | 1208 | 8.13 | 1230 | 8.40 | 1253 | 8.70 | 1275 | 9.00 | 1295 | 9.30 | 1315 | 9.60 |
| 8400 | 1081 | 6.96 | 1106 | 7.26 | 1131 | 7.58 | 1156 | 7.89 | 1179 | 8.19 | 1201 | 8.49 | 1224 | 8.79 | 1246 | 9.09 | 1266 | 9.38 | 1286 | 9.67 | 1307 | 9.98 | 1328 | 10.29 |

NOTE - Bold, *italics* - drive is capable of the values noted but will exceed motor horsepower.

Italics - field furnished drive

OPTIONS / ACCESSORIES AIR RESISTANCE (in. w.g.)

| Air Volume - cfm | Gas Heat Exchanger | | | Economizer | | | Horizontal Roof Curb | | |
|------------------|--------------------|--|-----------|------------|--|--|----------------------|--|-----|
| | Med. Heat | | High Heat | | | | | | |
| 5600 | .10 | | .13 | | | | --- | | .10 |
| 6000 | .12 | | .15 | | | | --- | | .11 |
| 6500 | .13 | | .17 | | | | .02 | | .13 |
| 7000 | .15 | | .19 | | | | .04 | | .15 |
| 7500 | .17 | | .21 | | | | .06 | | .17 |
| 8000 | .19 | | .24 | | | | .09 | | .19 |
| 8400 | .20 | | .26 | | | | .11 | | .21 |

BLOWER DATA**20 TON**

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT WITH STANDARD GAS HEAT, WET INDOOR COIL & AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (high gas heat, economizer, etc.). See table below

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 20

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

0.20 to 1.10 in. w.g.**TGA240**

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | |
|---------------------------------------|----------------------------|------|-----|------|-----|------|-----|------|-----|------|-----|--|-----|------|------|------|------|------|------|------|------|------|-----|-----|
| | .20 | | .30 | | .40 | | .50 | | .60 | | .70 | | .80 | | .90 | | 1.00 | | 1.10 | | 1.20 | | | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Low Static - 5 HP, Drive Kit 2 | | | | | | | | | | | | Standard Static - 7.5 HP, Drive Kit 7 | | | | | | | | | | | | |
| 6400 | 648 | 1.99 | 688 | 2.22 | 727 | 2.46 | 764 | 2.69 | 801 | 2.92 | 834 | 3.15 | 866 | 3.39 | 896 | 3.62 | 926 | 3.85 | 954 | 4.08 | 981 | 4.30 | | |
| 7000 | 675 | 2.35 | 715 | 2.63 | 755 | 2.90 | 790 | 3.15 | 825 | 3.40 | 858 | 3.68 | 890 | 3.95 | 920 | 4.20 | 950 | 4.45 | 978 | 4.70 | 1005 | 4.95 | | |
| 7500 | 700 | 2.75 | 738 | 3.03 | 775 | 3.30 | 810 | 3.58 | 845 | 3.85 | 878 | 4.15 | 910 | 4.45 | 938 | 4.70 | 965 | 4.95 | 993 | 5.23 | 1020 | 5.50 | | |
| 8000 | 725 | 3.20 | 763 | 3.50 | 800 | 3.80 | 833 | 4.08 | 865 | 4.35 | 898 | 4.65 | 930 | 4.95 | 958 | 5.23 | 985 | 5.50 | 1013 | 5.80 | 1040 | 6.10 | | |
| 8500 | 750 | 3.65 | 788 | 3.98 | 825 | 4.30 | 858 | 4.60 | 890 | 4.90 | 920 | 5.23 | 950 | 5.55 | 978 | 5.85 | 1005 | 6.15 | 1033 | 6.48 | 1060 | 6.80 | | |
| 9000 | 780 | 4.20 | 815 | 4.53 | 850 | 4.85 | 880 | 5.18 | 910 | 5.50 | 940 | 5.83 | 970 | 6.15 | 998 | 6.48 | 1025 | 6.80 | 1053 | 7.15 | 1080 | 7.50 | | |
| 9600 | 811 | 4.87 | 845 | 5.22 | 879 | 5.57 | 910 | 5.94 | 941 | 6.31 | 970 | 6.67 | 999 | 7.02 | 1027 | 7.38 | 1054 | 7.74 | 1079 | 8.08 | 1104 | 8.41 | | |

1.30 to 2.40 in. w.g.**TGA240**

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | | | | | | | | | | | | | |
|------------------------|----------------------------|------|------|------|------|------|------|------|------|-------|------|---|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 1.30 | | 1.40 | | 1.50 | | 1.60 | | 1.70 | | 1.80 | | 1.90 | | 2.00 | | 2.10 | | 2.20 | | 2.30 | | 2.40 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Standard Static | | | | | | | | | | | | High Static - 10 HP, Drive Kit 6 | | | | | | | | | | | | |
| 6400 | 1008 | 4.53 | 1035 | 4.75 | 1060 | 4.98 | 1085 | 5.22 | 1110 | 5.45 | 1135 | 5.68 | 1157 | 5.91 | 1180 | 6.15 | 1202 | 6.40 | 1225 | 6.65 | 1246 | 6.88 | 1268 | 7.11 |
| 7000 | 1030 | 5.18 | 1055 | 5.40 | 1080 | 5.68 | 1105 | 5.95 | 1130 | 6.20 | 1155 | 6.45 | 1178 | 6.70 | 1200 | 6.95 | 1220 | 7.20 | 1240 | 7.45 | 1263 | 7.73 | 1285 | 8.00 |
| 7500 | 1048 | 5.78 | 1075 | 6.05 | 1100 | 6.33 | 1125 | 6.60 | 1148 | 6.88 | 1170 | 7.15 | 1193 | 7.40 | 1215 | 7.65 | 1238 | 7.95 | 1260 | 8.25 | 1280 | 8.50 | 1300 | 8.75 |
| 8000 | 1065 | 6.40 | 1090 | 6.70 | 1115 | 6.98 | 1140 | 7.25 | 1163 | 7.55 | 1185 | 7.85 | 1208 | 8.13 | 1230 | 8.40 | 1253 | 8.70 | 1275 | 9.00 | 1295 | 9.30 | 1315 | 9.60 |
| 8500 | 1085 | 7.10 | 1110 | 7.40 | 1135 | 7.73 | 1160 | 8.05 | 1183 | 8.35 | 1205 | 8.65 | 1228 | 8.95 | 1250 | 9.25 | 1270 | 9.55 | 1290 | 9.85 | 1310 | 10.15 | 1330 | 10.45 |
| 9000 | 1105 | 7.83 | 1130 | 8.15 | 1153 | 8.45 | 1175 | 8.75 | 1198 | 9.08 | 1220 | 9.40 | 1243 | 9.75 | 1265 | 10.10 | 1288 | 10.45 | 1310 | 10.80 | 1330 | 11.10 | 1350 | 11.40 |
| 9600 | 1129 | 8.77 | 1154 | 9.13 | 1177 | 9.46 | 1199 | 9.78 | 1222 | 10.14 | 1244 | 10.50 | 1267 | 10.87 | 1289 | 11.23 | --- | --- | --- | --- | --- | --- | --- | --- |

NOTE - *italics* - field furnished drive.**OPTIONS / ACCESSORIES AIR RESISTANCE (in. w.g.)**

| Air Volume - cfm | Gas Heat Exchanger | | Economizer | Horizontal Roof Curb |
|------------------|--------------------|-----------|------------|----------------------|
| | Med. Heat | High Heat | | |
| 6400 | .13 | .17 | .02 | .13 |
| 7000 | .15 | .19 | .04 | .15 |
| 7500 | .17 | .21 | .06 | .17 |
| 8000 | .19 | .24 | .09 | .19 |
| 8500 | .20 | .26 | .11 | .21 |
| 9000 | .23 | .29 | .14 | .24 |
| 9600 | .25 | .32 | .16 | .26 |

BLOWER DATA

STANDARD 25 TON

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT WITH STANDARD GAS HEAT, WET INDOOR COIL & AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (high gas heat, economizer, etc.) See table below

2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.). See page 20

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

0.00 to 1.00 in. w.g.

TGA300S

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | |
|---|----------------------------|------|------|------|------|------|-------------|-------------|-------------|-------------|------|-------------------|
| | 0.00 | | 0.10 | | 0.20 | | 0.30 | | 0.40 | | 0.50 | |
| | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP | RPM | BHP |
| Low Static - 7.5 HP, Drive Kit 7 | | | | | | | | | | | | |
| 8000 | 725 | 3.20 | 763 | 3.50 | 800 | 3.80 | 833 | 4.08 | 865 | 4.35 | 898 | 4.65 |
| 8500 | 750 | 3.65 | 788 | 3.98 | 825 | 4.30 | 858 | 4.60 | 890 | 4.90 | 920 | 5.23 |
| 9250 | 790 | 4.45 | 825 | 4.80 | 860 | 5.15 | 893 | 5.50 | 925 | 5.85 | 955 | 6.20 |
| 10000 | 835 | 5.40 | 868 | 5.78 | 900 | 6.15 | 930 | 6.50 | 960 | 6.85 | 988 | 7.23 |
| 10750 | 875 | 6.40 | 908 | 6.83 | 940 | 7.25 | 970 | 7.65 | 1000 | 8.05 | 1028 | 8.45 |
| 11500 | 915 | 7.40 | 948 | 7.88 | 980 | 8.35 | 1010 | 8.80 | 1040 | 9.25 | 1068 | 9.68 |
| | | | | | | | | | 1095 | 10.10 | 1118 | 10.53 |
| | | | | | | | | | 1140 | 10.95 | 1165 | 11.40 |
| | | | | | | | | | | | | 1190 11.85 |

NOTE - **Bold, italics** - drive is capable of the values noted but will exceed motor horsepower.

1.10 to 2.20 in. w.g.

TGA300S

| Air Volume cfm | External Static (in. w.g.) | | | | | | | | | | | |
|---|----------------------------|--------------|-------------|--------------|------|-------|------|-------|------|-------|------|-------|
| | 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 |
| Standard Static - 10 HP, Drive Kit 6 | | | | | | | | | | | | |
| 8000 | 1065 | 6.40 | 1090 | 6.70 | 1115 | 6.98 | 1140 | 7.25 | 1163 | 7.55 | 1185 | 7.85 |
| 8500 | 1085 | 7.10 | 1110 | 7.40 | 1135 | 7.73 | 1160 | 8.05 | 1183 | 8.35 | 1205 | 8.65 |
| 9250 | 1115 | 8.20 | 1140 | 8.55 | 1163 | 8.88 | 1185 | 9.20 | 1208 | 9.53 | 1230 | 9.85 |
| 10000 | 1145 | 9.43 | 1170 | 9.80 | 1193 | 10.15 | 1215 | 10.50 | 1238 | 10.88 | 1260 | 11.25 |
| 10750 | 1178 | 10.83 | 1200 | 11.20 | 1222 | 11.57 | --- | --- | --- | --- | --- | --- |
| 11500 | 1210 | 12.23 | 1230 | 12.60 | --- | --- | --- | --- | --- | --- | --- | --- |

NOTE - **Bold, italics** - drive is capable of the values noted but will exceed motor horsepower.

OPTIONS / ACCESSORIES AIR RESISTANCE (in. w.g.)

| Air Volume - cfm | Gas Heat Exchanger | | | Economizer | | Horizontal Roof Curb | |
|------------------|--------------------|--|-----------|------------|-----|----------------------|-----|
| | Med. Heat | | High Heat | | | | |
| 8000 | .19 | | .24 | | .09 | | .13 |
| 8500 | .20 | | .26 | | .11 | | .15 |
| 9250 | .24 | | .30 | | .15 | | .18 |
| 10,000 | .27 | | .35 | | .19 | | .21 |

BLOWER DATA

CEILING DIFFUSER AIR RESISTANCE - in. w.g.

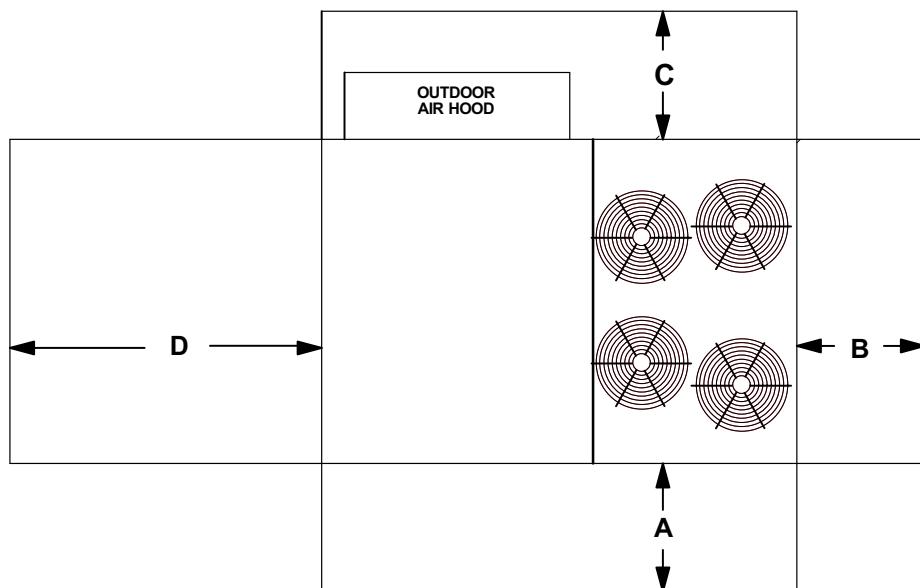
| Air Volume cfm | Step-Down Diffuser | | | | | | Flush Diffuser | |
|----------------|--------------------|-----------------------|-------------|--------------------|-----------------------|-----|----------------|----------|
| | RTD11-185 | | RTD11-275 | | | | FD11-185 | FD11-275 |
| 2 Ends Open | 1 Side/2 Ends Open | All Ends & Sides Open | 2 Ends Open | 1 Side/2 Ends Open | All Ends & Sides Open | | | |
| 5000 | .51 | .44 | .39 | --- | --- | --- | .27 | --- |
| 5200 | .56 | .48 | .42 | --- | --- | --- | .30 | --- |
| 5400 | .61 | .52 | .45 | --- | --- | --- | .33 | --- |
| 5600 | .66 | .56 | .48 | --- | --- | --- | .36 | --- |
| 5800 | .71 | .59 | .51 | --- | --- | --- | .39 | --- |
| 6000 | .76 | .63 | .55 | .36 | .31 | .27 | .42 | .29 |
| 6200 | .80 | .68 | .59 | --- | --- | --- | .46 | --- |
| 6400 | .86 | .72 | .63 | --- | --- | --- | .50 | --- |
| 6500 | --- | --- | --- | .42 | .36 | .31 | --- | .34 |
| 6600 | .92 | .77 | .67 | --- | --- | --- | .54 | --- |
| 6800 | .99 | .83 | .72 | --- | --- | --- | .58 | --- |
| 7000 | 1.03 | .87 | .76 | .49 | .41 | .36 | .62 | .40 |
| 7200 | 1.09 | .92 | .80 | --- | --- | --- | .66 | --- |
| 7400 | 1.15 | .97 | .84 | --- | --- | --- | .70 | --- |
| 7500 | --- | --- | --- | .51 | .46 | .41 | --- | .45 |
| 7600 | 1.20 | 1.02 | .88 | --- | --- | --- | .74 | --- |
| 8000 | --- | --- | --- | .59 | .49 | .43 | --- | .50 |
| 8500 | --- | --- | --- | .69 | .58 | .50 | --- | .57 |
| 9000 | --- | --- | --- | .79 | .67 | .58 | --- | .66 |
| 9500 | --- | --- | --- | .89 | .75 | .65 | --- | .74 |
| 10,000 | --- | --- | --- | 1.00 | .84 | .73 | --- | .81 |
| 10,500 | --- | --- | --- | 1.10 | .92 | .80 | --- | .89 |
| 11,000 | --- | --- | --- | 1.21 | 1.01 | .88 | --- | .96 |

BLOWER DATA

CEILING DIFFUSER AIR THROW DATA - ft.

| Model No. | Air Volume - cfm | 1 Effective Throw Range | | Model No. | Air Volume - cfm | 1 Effective Throw Range | |
|-----------|------------------|-------------------------|----------|----------------------|------------------|-------------------------|----------|
| | | Step-Down | Flush | | | Step-Down | Flush |
| 180 | Diffuser Model | RTD11-185 | FD11-185 | 210, 240, 300S | Diffuser Model | RTD11-275 | FD11-275 |
| | 5600 | 39 - 49 | 28 - 37 | | 7200 | 33 - 38 | 26 - 35 |
| | 5800 | 42 - 51 | 29 - 38 | | 7400 | 35 - 40 | 28 - 37 |
| | 6000 | 44 - 54 | 40 - 50 | | 7600 | 36 - 41 | 29 - 38 |
| | 6200 | 45 - 55 | 42 - 51 | | 7800 | 38 - 43 | 40 - 50 |
| | 6400 | 46 - 55 | 53 - 52 | | 8000 | 39 - 44 | 42 - 51 |
| | 6600 | 57 - 56 | 45 - 56 | | 8200 | 41 - 46 | 43 - 52 |
| | | | | | 8400 | 43 - 49 | 44 - 54 |
| | | | | | 8600 | 44 - 50 | 46 - 57 |
| | | | | | 8800 | 47 - 55 | 48 - 59 |

UNIT CLEARANCES - INCHES (MM)



| ¹ Unit Clearance | A in. mm | B in. mm | C in. mm | D in. mm | Top Clearance |
|------------------------------------|----------------|----------------|----------------|----------------|---------------------|
| Service Clearance | 60 1524 | 36 914 | 36 914 | 66 1676 | Unobstructed |
| Clearance to Combustibles | 36 914 | 1 25 | 1 25 | 1 25 | |
| Minimum Operation Clearance | 45 1143 | 36 914 | 36 914 | 41 1041 | |

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.

OUTDOOR SOUND DATA

| Unit Model No. | Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts | | | | | | | ¹ Sound Rating Number (dB) | |
|----------------|--|-----|-----|------|------|------|------|---------------------------------------|--|
| | Center Frequency - HZ | | | | | | | | |
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | | |
| 180 | 80 | 83 | 87 | 88 | 84 | 80 | 71 | 93 | |
| 210, 240 | 77 | 83 | 87 | 87 | 84 | 80 | 71 | 92 | |
| 300S | 80 | 84 | 87 | 87 | 83 | 77 | 64 | 93 | |

Note - The octave sound power data does not include tonal corrections.

¹ Tested according to ARI Standard 370-2001 test conditions.

ELECTRICAL DATA**15 TON****15 TON STANDARD EFFICIENCY (R-22)****TGA180S2**

| Voltage - 60hz - 3 phase | | 208/230V | | | 460V | | | 575V | | |
|--|---------------------------|--------------|----------|------------|--------------|----------|------------|--------------|----------|------------|
| Compressors | Rated Load Amps (total) | 15.6 (46.8) | | | 7.5 (22.5) | | | 6 (18) | | |
| (3) | Locked Rotor Amps (total) | 124 (372) | | | 59.6 (178.8) | | | 49.4 (148.2) | | |
| Outdoor Fan Motors (4) | Full Load Amps (total) | 2.4 (9.6) | | | 1.3 (5.2) | | | 1 (4) | | |
| | Locked Rotor Amps (total) | 4.7 (18.8) | | | 2.4 (9.6) | | | 1.9 (7.6) | | |
| Optional Power Exhaust Fan (2) | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | Horsepower | 3 | 5 | 7.5 | 3 | 5 | 7.5 | 3 | 5 | 7.5 |
| | Rated Load Amps | 10.6 | 16.7 | 24.2 | 4.8 | 7.6 | 11 | 3.9 | 6.1 | 9 |
| | Locked Rotor Amps | 66 | 105 | 152 | 26.8 | 45.6 | 66 | 23.4 | 36.6 | 54 |
| 1 Maximum Over-current Protection | Unit Only | 80 | 90 | 110 | 40 | 40 | 50 | 30 | 35 | 40 |
| | with power exhaust | 90 | 90 | 110 | 40 | 45 | 50 | 35 | 35 | 40 |
| 2 Minimum Circuit Ampacity | Unit Only | 71 | 77 | 85 | 35 | 38 | 41 | 28 | 30 | 33 |
| | with power exhaust | 76 | 82 | 90 | 37 | 40 | 44 | 30 | 32 | 35 |
| Disconnect | | 84M14 | | | 84M13 | | | 84M13 | | |

15 TON HIGH EFFICIENCY (R-22)**TGA180H2**

| Voltage - 60hz - 3 phase | | 208/230V | | | 460V | | | 575V | | |
|--|---------------------------|--------------|----------|------------|--------------|----------|------------|--------------|----------|------------|
| Compressors | Rated Load Amps (total) | 15.4 (46.2) | | | 7.4 (22.2) | | | 5.9 (17.7) | | |
| (3) | Locked Rotor Amps (total) | 124 (372) | | | 59.6 (178.8) | | | 49.4 (148.2) | | |
| Outdoor Fan Motors (4) | Full Load Amps (total) | 2.4 (9.6) | | | 1.3 (5.2) | | | 1 (4) | | |
| | Locked Rotor Amps (total) | 4.7 (18.8) | | | 2.4 (9.6) | | | 1.9 (7.6) | | |
| Optional Power Exhaust Fan (2) | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | Horsepower | 3 | 5 | 7.5 | 3 | 5 | 7.5 | 3 | 5 | 7.5 |
| | Rated Load Amps | 10.6 | 16.7 | 24.2 | 4.8 | 7.6 | 11 | 3.9 | 6.1 | 9 |
| | Locked Rotor Amps | 66 | 105 | 152 | 26.8 | 45.6 | 66 | 23.4 | 36.6 | 54 |
| 1 Maximum Over-current Protection | Unit Only | 80 | 90 | 110 | 40 | 40 | 50 | 30 | 35 | 40 |
| | with power exhaust | 90 | 90 | 110 | 40 | 45 | 50 | 35 | 35 | 40 |
| 2 Minimum Circuit Ampacity | Unit Only | 71 | 77 | 84 | 35 | 37 | 41 | 28 | 30 | 33 |
| | with power exhaust | 76 | 82 | 89 | 37 | 40 | 43 | 30 | 32 | 35 |
| Disconnect | | 84M14 | | | 84M13 | | | 84M13 | | |

17.5 TON STANDARD EFFICIENCY (R-22)**TGA210S2**

| Voltage - 60hz - 3 phase | | 208/230V | | | 460V | | | 575V | | |
|--|---------------------------|--------------|----------|------------|--------------|----------|------------|--------------|----------|------------|
| Compressors | Rated Load Amps (total) | 20.2 (60.6) | | | 9.7 (29.1) | | | 8 (24) | | |
| (3) | Locked Rotor Amps (total) | 156 (468) | | | 75 (225) | | | 54 (162) | | |
| Outdoor Fan Motors (4) | Full Load Amps (total) | 3 (12) | | | 1.5 (6) | | | 1.2 (4.8) | | |
| | Locked Rotor Amps (total) | 6 (24) | | | 3 (12) | | | 2.9 (11.6) | | |
| Optional Power Exhaust Fan (2) | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | Horsepower | 3 | 5 | 7.5 | 3 | 5 | 7.5 | 3 | 5 | 7.5 |
| | Rated Load Amps | 10.6 | 16.7 | 24.2 | 4.8 | 7.6 | 11 | 3.9 | 6.1 | 9 |
| | Locked Rotor Amps | 66 | 105 | 152 | 26.8 | 45.6 | 66 | 23.4 | 36.6 | 54 |
| 1 Maximum Over-current Protection | with power exhaust | 110 | 110 | 125 | 50 | 50 | 60 | 40 | 45 | 50 |
| | Unit Only | 100 | 110 | 125 | 50 | 50 | 50 | 40 | 40 | 45 |
| 2 Minimum Circuit Ampacity | with power exhaust | 94 | 100 | 107 | 45 | 48 | 52 | 37 | 39 | 42 |
| | Unit Only | 89 | 95 | 102 | 43 | 46 | 49 | 35 | 37 | 40 |
| Disconnect | | 84M14 | | | 84M13 | | | 84M13 | | |

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**17.5 TON****TGA210H2****17.5 TON HIGH EFFICIENCY (R-22)**

| Voltage - 60hz - 3 phase | | | 208/230V | | | 460V | | | 575V | | |
|--|--|---------------------------|-------------------|----------|----------|--------------|----------|----------|--------------|----------|----------|
| Compressors | | Rated Load Amps (total) | 14.7 (58.8) | | | 7.1 (28.4) | | | 5.1 (20.4) | | |
| (4) | | Locked Rotor Amps (total) | 91 (364) | | | 50 (200) | | | 37 (148) | | |
| Outdoor Fan Motors (4) | | Full Load Amps (total) | 2.4 (9.6) | | | 1.3 (5.2) | | | 1 (4) | | |
| | | Locked Rotor Amps (total) | 4.7 (18.8) | | | 2.4 (9.6) | | | 1.9 (7.6) | | |
| Optional Power Exhaust Fan (2) | | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | | | Horsepower | 3 | 5 | 7.5 | 3 | 5 | 7.5 | 3 | 5 |
| | | | Rated Load Amps | 10.6 | 16.7 | 24.2 | 4.8 | 7.6 | 11 | 3.9 | 6.1 |
| | | | Locked Rotor Amps | 66 | 105 | 152 | 26.8 | 45.6 | 66 | 23.4 | 36.6 |
| ¹ Maximum Over-current Protection | | with power exhaust | 100 | 110 | 125 | 45 | 50 | 60 | 35 | 40 | 45 |
| | | Unit Only | 90 | 100 | 110 | 45 | 50 | 50 | 30 | 35 | 40 |
| ² Minimum Circuit Ampacity | | with power exhaust | 88 | 94 | 102 | 43 | 46 | 49 | 32 | 34 | 37 |
| | | Unit Only | 83 | 89 | 97 | 41 | 43 | 47 | 30 | 32 | 35 |
| Disconnect | | | 84M14 | | | 84M13 | | | 84M13 | | |

TGA240S2

| Voltage - 60hz - 3 phase | | | 208/230V | | | 460V | | | 575V | | |
|--|--|---------------------------|-------------------|----------|------------|--------------|----------|------------|--------------|----------|------------|
| Compressors | | Rated Load Amps (total) | 22.4 (67.2) | | | 10.9 (32.7) | | | 8.3 (24.9) | | |
| (3) | | Locked Rotor Amps (total) | 164 (492) | | | 100 (300) | | | 78 (234) | | |
| Outdoor Fan Motors (4) | | Full Load Amps (total) | 2.4 (9.6) | | | 1.3 (5.2) | | | 1 (4) | | |
| | | Locked Rotor Amps (total) | 4.7 (18.8) | | | 2.4 (9.6) | | | 1.9 (7.6) | | |
| Optional Power Exhaust Fan (2) | | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | | | Horsepower | 5 | 7.5 | 10 | 5 | 7.5 | 10 | 5 | 7.5 |
| | | | Rated Load Amps | 16.7 | 24.2 | 30.8 | 7.6 | 11 | 14 | 6.1 | 9 |
| | | | Locked Rotor Amps | 105 | 152 | 193 | 45.6 | 66 | 84 | 36.6 | 54 |
| ¹ Maximum Over-current Protection | | Unit Only | 110 | 125 | 125 | 50 | 60 | 60 | 45 | 45 | 50 |
| | | with power exhaust | 125 | 125 | 150 | 60 | 60 | 70 | 45 | 50 | 50 |
| ² Minimum Circuit Ampacity | | Unit Only | 100 | 107 | 114 | 49 | 52 | 55 | 38 | 40 | 42 |
| | | with power exhaust | 104 | 112 | 118 | 51 | 55 | 58 | 40 | 42 | 44 |
| Disconnect | | | 84M14 | | | 84M13 | | | 84M13 | | |

TGA240H2

| Voltage - 60hz - 3 phase | | | 208/230V | | | 460V | | | 575V | | |
|--|--|---------------------------|-------------------|----------|------------|--------------|----------|------------|--------------|----------|------------|
| Compressors | | Rated Load Amps (total) | 17.3 (69.2) | | | 9 (36) | | | 7.1 (28.4) | | |
| (4) | | Locked Rotor Amps (total) | 123 (492) | | | 62 (248) | | | 50 (200) | | |
| Outdoor Fan Motors (4) | | Full Load Amps (total) | 2.4 (9.6) | | | 1.3 (5.2) | | | 1 (4) | | |
| | | Locked Rotor Amps (total) | 4.7 (18.8) | | | 2.4 (9.6) | | | 1.9 (7.6) | | |
| Optional Power Exhaust Fan (2) | | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | | | Horsepower | 5 | 7.5 | 10 | 5 | 7.5 | 10 | 5 | 7.5 |
| | | | Rated Load Amps | 16.7 | 24.2 | 30.8 | 7.6 | 11 | 14 | 6.1 | 9 |
| | | | Locked Rotor Amps | 105 | 152 | 193 | 45.6 | 66 | 84 | 36.6 | 54 |
| ¹ Maximum Over-current Protection | | Unit Only | 110 | 125 | 125 | 60 | 60 | 70 | 45 | 50 | 50 |
| | | with power exhaust | 110 | 125 | 150 | 60 | 60 | 70 | 45 | 50 | 50 |
| ² Minimum Circuit Ampacity | | Unit Only | 100 | 108 | 114 | 52 | 55 | 58 | 41 | 44 | 46 |
| | | with power exhaust | 105 | 113 | 119 | 54 | 58 | 61 | 43 | 46 | 48 |
| Disconnect | | | 84M14 | | | 84M13 | | | 84M13 | | |

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/ELECTRIC HEAT DATA**25 TON****25 TON STANDARD EFFICIENCY (R-22)****TGA300S2**

| Voltage - 60hz - 3 phase | | 208/230V | | | 460V | | | 575V | | |
|---|---------------------------------|--------------|------------|-----------|--------------|------------|-----------|--------------|------------|-----------|
| Compressors (4) | Rated Load Amps (total) | 19.8 (79.2) | | | 9.6 (38.4) | | | 7.8 (31.2) | | |
| | Locked Rotor Amps (total) | 156 (624) | | | 75 (300) | | | 54 (216) | | |
| Outdoor Fan Motors (4) | Full Load Amps (total) | 3 (12) | | | 1.5 (6) | | | 1.2 (4.8) | | |
| | Locked Rotor Amps (total) | 6 (24) | | | 3 (12) | | | 2.9 (11.6) | | |
| Optional Power Exhaust Fan (2) | Horsepower | 1/3 | | | 1/3 | | | 1/3 | | |
| | Full Load Amps(total) | 4.8 (9.6) | | | 2.6 (5.2) | | | 2 (4) | | |
| | Locked Rotor Amps (total) | 9.4 (18.8) | | | 4.8 (9.6) | | | 3.8 (7.6) | | |
| Service Outlet 115V GFI | | 15 Amps | | | 15 Amps | | | 15 Amps | | |
| Indoor Blower Motor | Horsepower | 5 | 7.5 | 10 | 5 | 7.5 | 10 | 5 | 7.5 | 10 |
| | Rated Load Amps | 16.7 | 24.2 | 30.8 | 7.6 | 11 | 14 | 6.1 | 9 | 11 |
| | Locked Rotor Amps | 105 | 152 | 193 | 45.6 | 66 | 84 | 36.6 | 54 | 66 |
| ¹ Maximum Over-current Protection | Unit Only with power exhaust | 125 | 125 | 150 | 60 | 60 | 70 | 50 | 50 | 60 |
| ² Minimum Circuit Ampacity | Unit Only with power exhaust | 108 | 116 | 122 | 52 | 56 | 59 | 43 | 46 | 48 |
| Disconnect | | 84M14 | | | 84M13 | | | 84M13 | | |

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.

WEIGHT DATA

| Model Number | Net | | Shipping | |
|-------------------------|------|------|----------|------|
| | Ibs. | kg | Ibs. | kg |
| 180S/210S Base Unit | 2251 | 1021 | 2451 | 1112 |
| 180S/210S Max. Unit | 2441 | 1107 | 2641 | 1197 |
| 180H/240S Base Unit | 2345 | 1064 | 2545 | 1154 |
| 180H/240S Max. Unit | 2535 | 1150 | 2735 | 1241 |
| 210H/240H/300 Base Unit | 2470 | 1120 | 2670 | 1211 |
| 210H/240H/300 Max. Unit | 2660 | 1207 | 2860 | 1297 |

OPTIONS / ACCESSORIES

| | | Weight | |
|--------------------------|------------|--------|-----|
| | | Ibs. | kg. |
| CEILING DIFFUSERS | | | |
| Step-Down | RTD11-185 | 392 | 178 |
| | RTD11-275 | 403 | 183 |
| Flush | FD11-185 | 289 | 135 |
| | FD11-275 | 363 | 165 |
| Transitions | LASRT18 | 80 | 36 |
| | LASRT21/24 | 75 | 34 |

ECONOMIZER / OUTDOOR AIR / EXHAUST

| | | | |
|--|-------------|----|----|
| Economizer | T1ECON10C-1 | 86 | 39 |
| Barometric Relief | | | |
| Down-Flow Barometric Relief Dampers | LAGED18/24 | 30 | 14 |
| Horizontal Barometric Relief Dampers | LAGEDH18/24 | 20 | 9 |
| Outdoor Air Dampers | | | |
| Damper Section (down-flow) - Automatic | T1DAMP20C-1 | 52 | 24 |
| Damper Section (down-flow) - Manual | LAOAD18/24 | 49 | 22 |
| Outdoor Air Hood (down-flow) | C1HOOD10C-1 | 65 | 29 |
| Power Exhaust | LAPEF18/24 | 62 | 28 |

HEAT EXCHANGER

| | | | |
|----------------------------|--|-----|----|
| Medium Heat Heat Exchanger | | 95 | 43 |
| High Heat Heat Exchanger | | 105 | 48 |

PACKAGING

| | | | |
|--------------------------------------|--|-----|-----|
| LTL Packaging (less than truck load) | | 280 | 127 |
|--------------------------------------|--|-----|-----|

ROOF CURBS - STANDARD

| | | | |
|-------------------|----------------|-----|-----|
| Down-Flow | | | |
| 14 in. height | LARMF18/36-14 | 160 | 73 |
| 24 in.height | LARMF18/36-24 | 220 | 100 |
| Horizontal | | | |
| 26 in. height | LARMFH18/24-26 | 420 | 191 |
| 37 in. height | LARMFH18/24-37 | 580 | 263 |

ROOF CURBS - CLIPLOCK 1000

| | | | |
|-------------------|-----------------|-----|-----|
| Down-Flow | | | |
| 14 in. height | LARMF18/30S-14 | 164 | 74 |
| 18 in. height | LARMF18/30S-18 | 187 | 85 |
| 24 in. height | LARMF18/30S-24 | 222 | 101 |
| Horizontal | | | |
| 26 in. height | LARMFH18/24S-26 | 335 | 152 |
| 37 in. height | LARMFH18/24S-37 | 445 | 202 |

Base Unit - The unit with low fire heat exchanger NO OPTIONS.

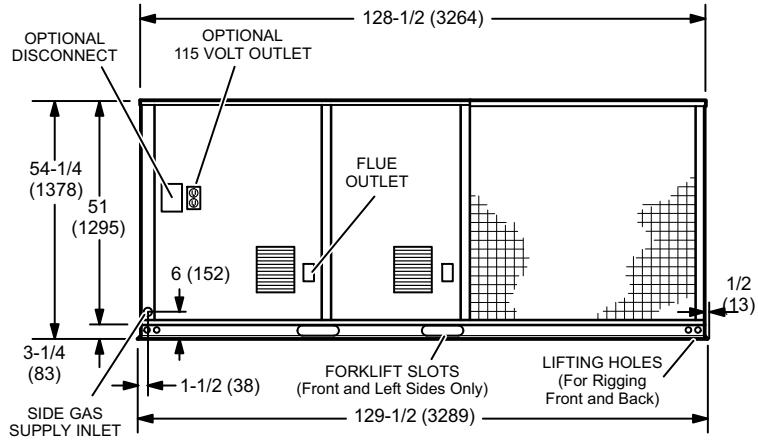
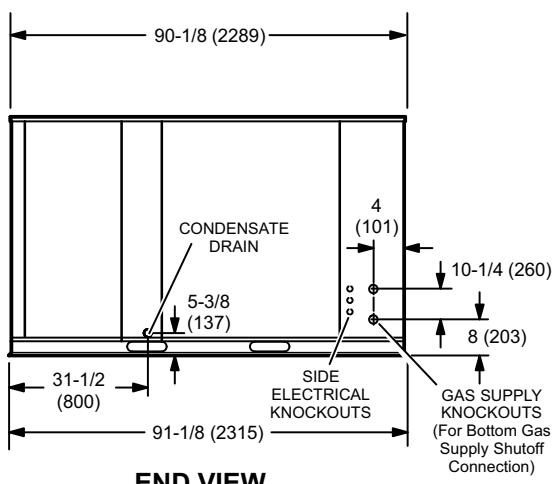
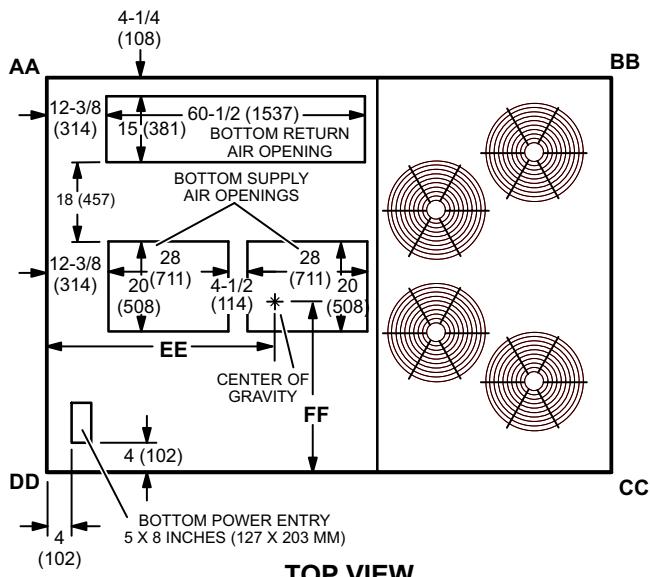
Max. Unit - The unit with ALL OPTIONS Installed. (High Input Heat Exchanger, Economizer, Power Exhaust Fans, Controls)

DIMENSIONS - INCHES (MM)

| Model Number | CORNER WEIGHTS | | | | | | | | CENTER OF GRAVITY | | | |
|---------------------|----------------|-----|------|-----|------|-----|------|-----|-------------------|------|--------|------|
| | AA | | BB | | CC | | DD | | EE | FF | | |
| | Ibs. | kg | Ibs. | kg | Ibs. | kg | Ibs. | kg | inch | mm | inch | mm |
| 180S/210S Base Unit | 602 | 273 | 470 | 213 | 502 | 228 | 677 | 307 | 51-1/2 | 1308 | 39-1/2 | 1003 |
| 180S/210S Max. Unit | 673 | 305 | 518 | 235 | 536 | 243 | 714 | 324 | 51-1/2 | 1308 | 42-1/2 | 1080 |
| 180H Base Unit | 607 | 275 | 498 | 226 | 544 | 247 | 696 | 316 | 54 | 1372 | 38 | 965 |
| 180H Max. Unit | 681 | 309 | 552 | 250 | 575 | 261 | 727 | 330 | 54 | 1372 | 42 | 1067 |
| 210H Base Unit | 646 | 293 | 520 | 236 | 565 | 256 | 740 | 336 | 53 | 1346 | 38-1/4 | 972 |
| 210H Max. Unit | 721 | 327 | 573 | 260 | 597 | 271 | 770 | 350 | 53 | 1346 | 42 | 1067 |
| 240S Base Unit | 613 | 278 | 501 | 227 | 541 | 245 | 690 | 313 | 54 | 1372 | 39 | 991 |
| 240S Max. Unit | 690 | 313 | 543 | 246 | 565 | 256 | 737 | 334 | 52-1/2 | 1334 | 42 | 1067 |
| 240H/300S Base Unit | 636 | 288 | 531 | 241 | 579 | 262 | 724 | 328 | 55 | 1397 | 38-1/4 | 972 |
| 240H/300S Max. Unit | 708 | 321 | 571 | 259 | 605 | 274 | 777 | 352 | 53-1/2 | 1359 | 40-1/2 | 1029 |

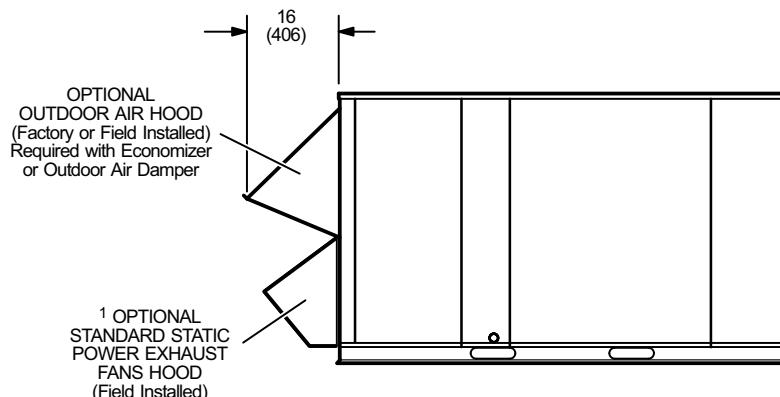
Base Unit - Unit with NO OPTIONS.

Max. Unit - Unit with ALL OPTIONS Installed. (Economizer, Power Exhaust Fans, Controls)



ACCESSORY DIMENSIONS - INCHES (MM)

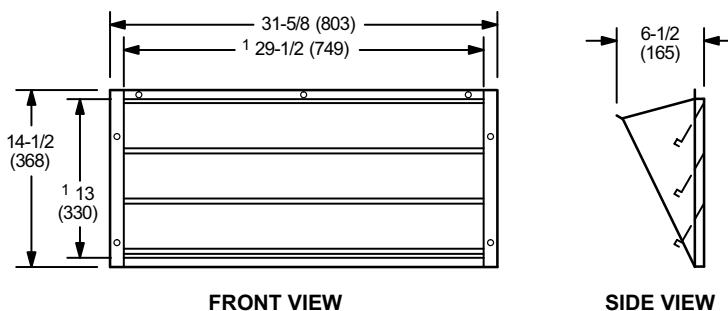
OPTIONAL OUTDOOR AIR HOOD DETAIL WITH STANDARD STATIC POWER EXHAUST FANS



¹ Field Installed in Return Air Duct for Horizontal Applications.

HORIZONTAL BAROMETRIC RELIEF DAMPERS

(Field installed in horizontal return air duct adjacent to unit)

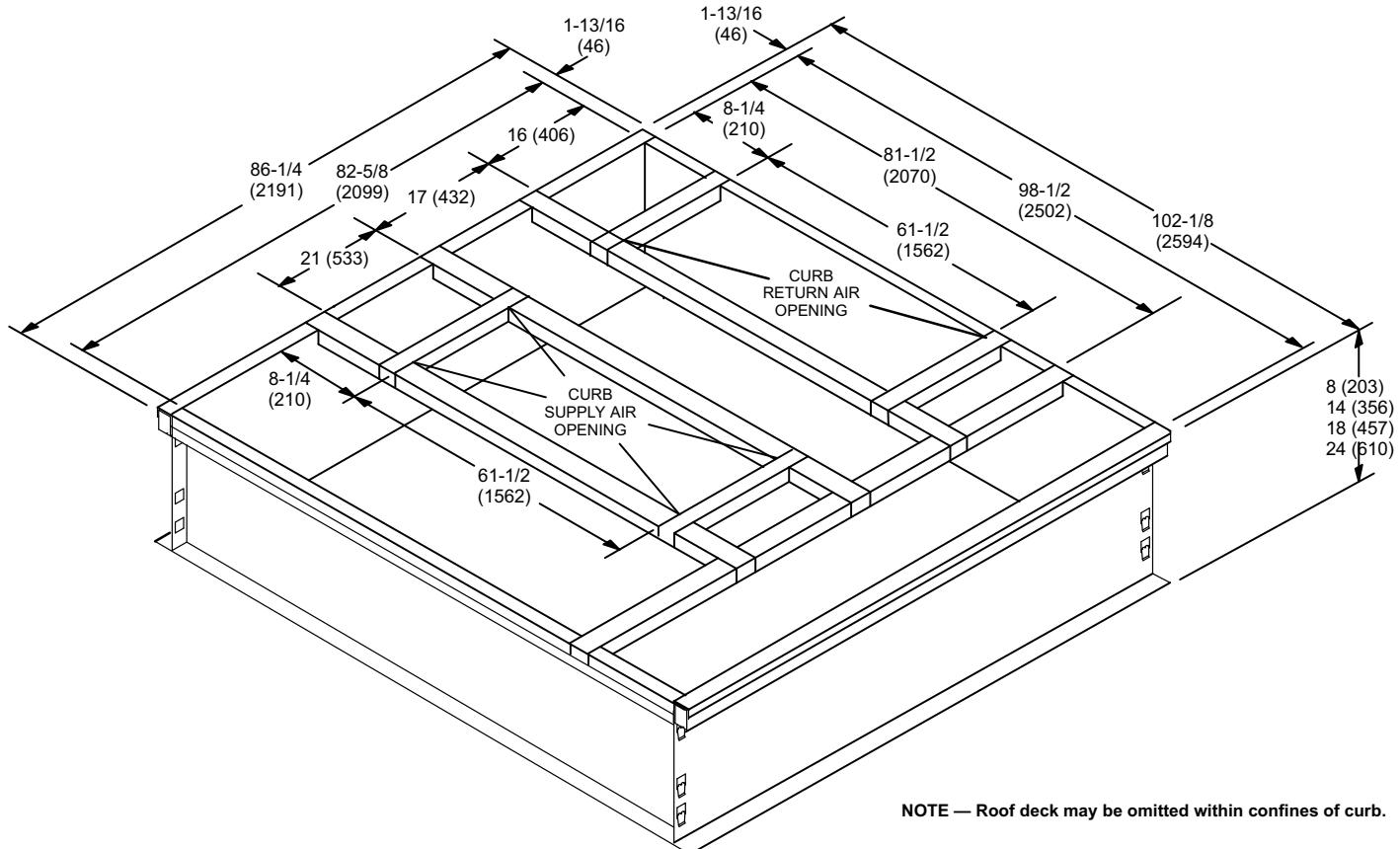


NOTE - Two furnished per order no.

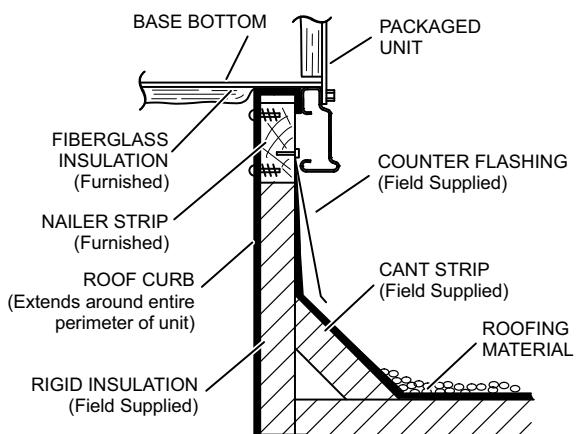
¹ NOTE - Opening size required in return air duct.

ACCESSORY DIMENSIONS - INCHES (MM)

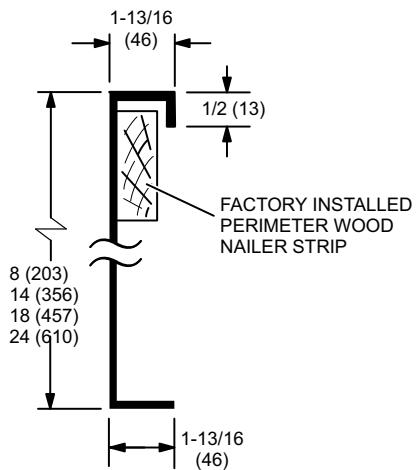
CLIPLOCK 1000 ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

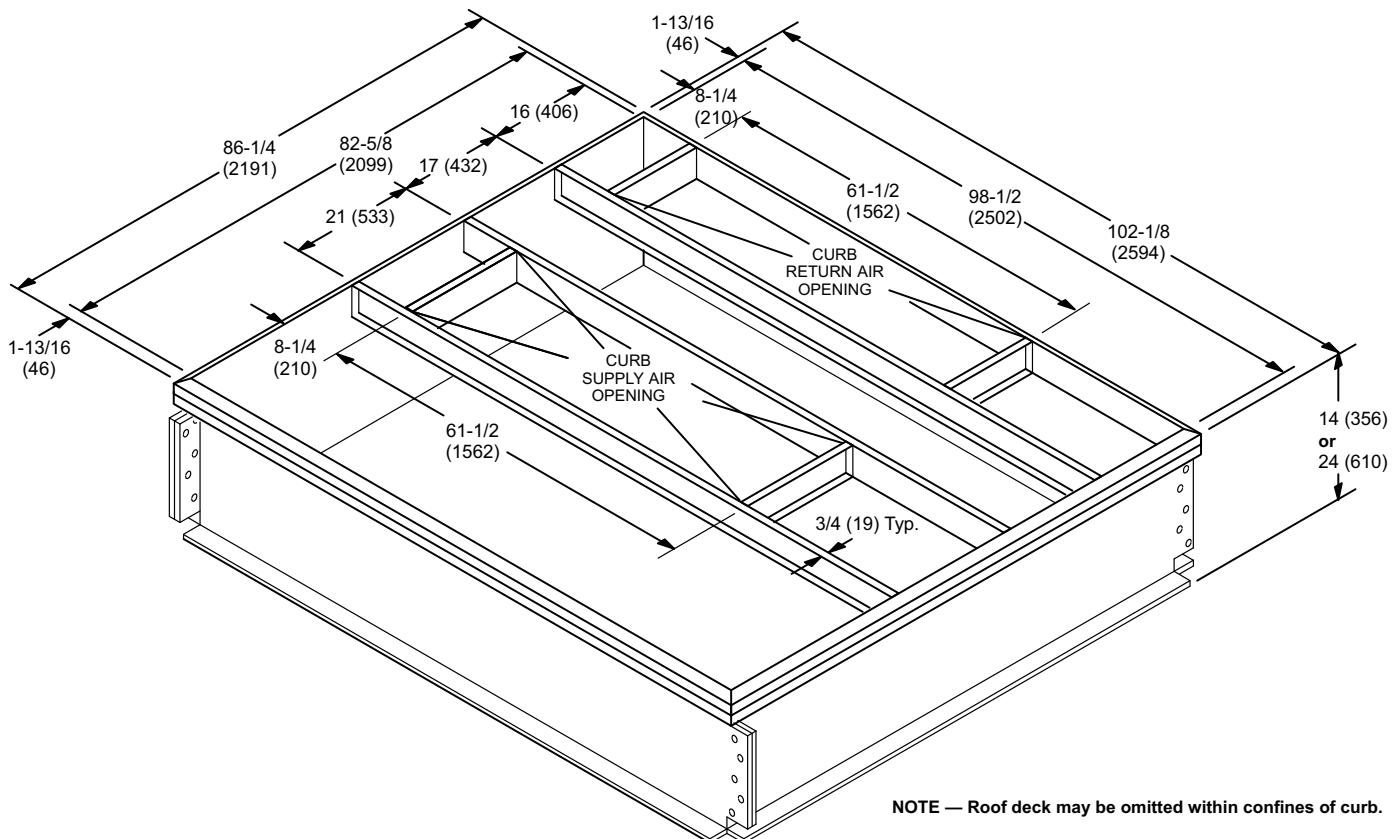


DETAIL ROOF CURB

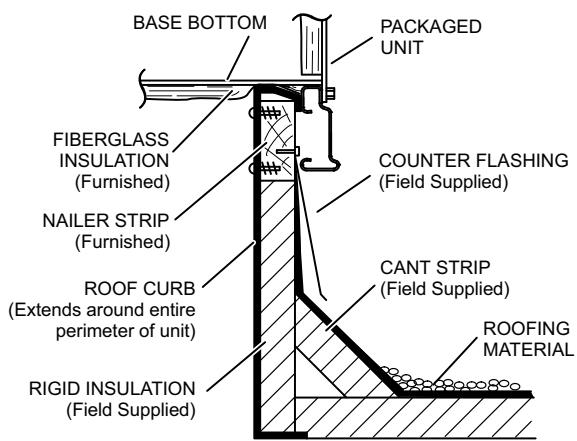


ACCESSORY DIMENSIONS - INCHES (MM)

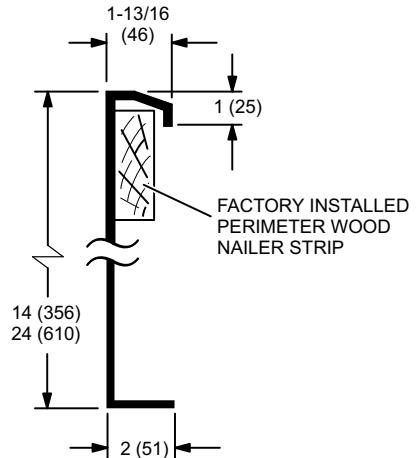
STANDARD ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

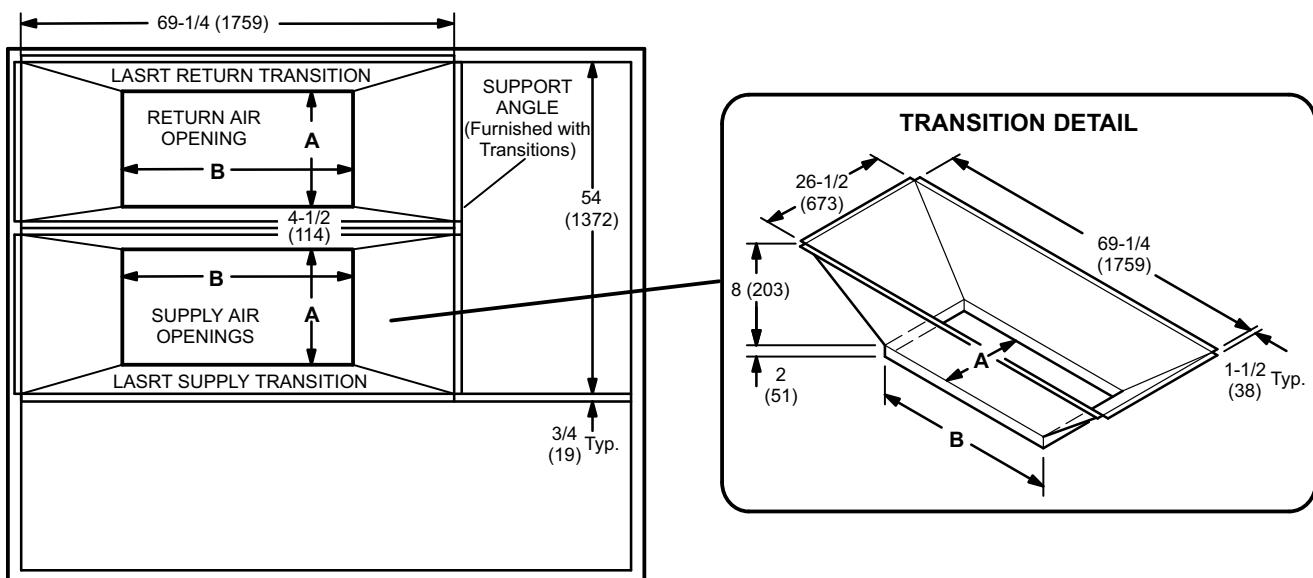


DETAIL ROOF CURB



ACCESSORY DIMENSIONS - INCHES (MM)

ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS



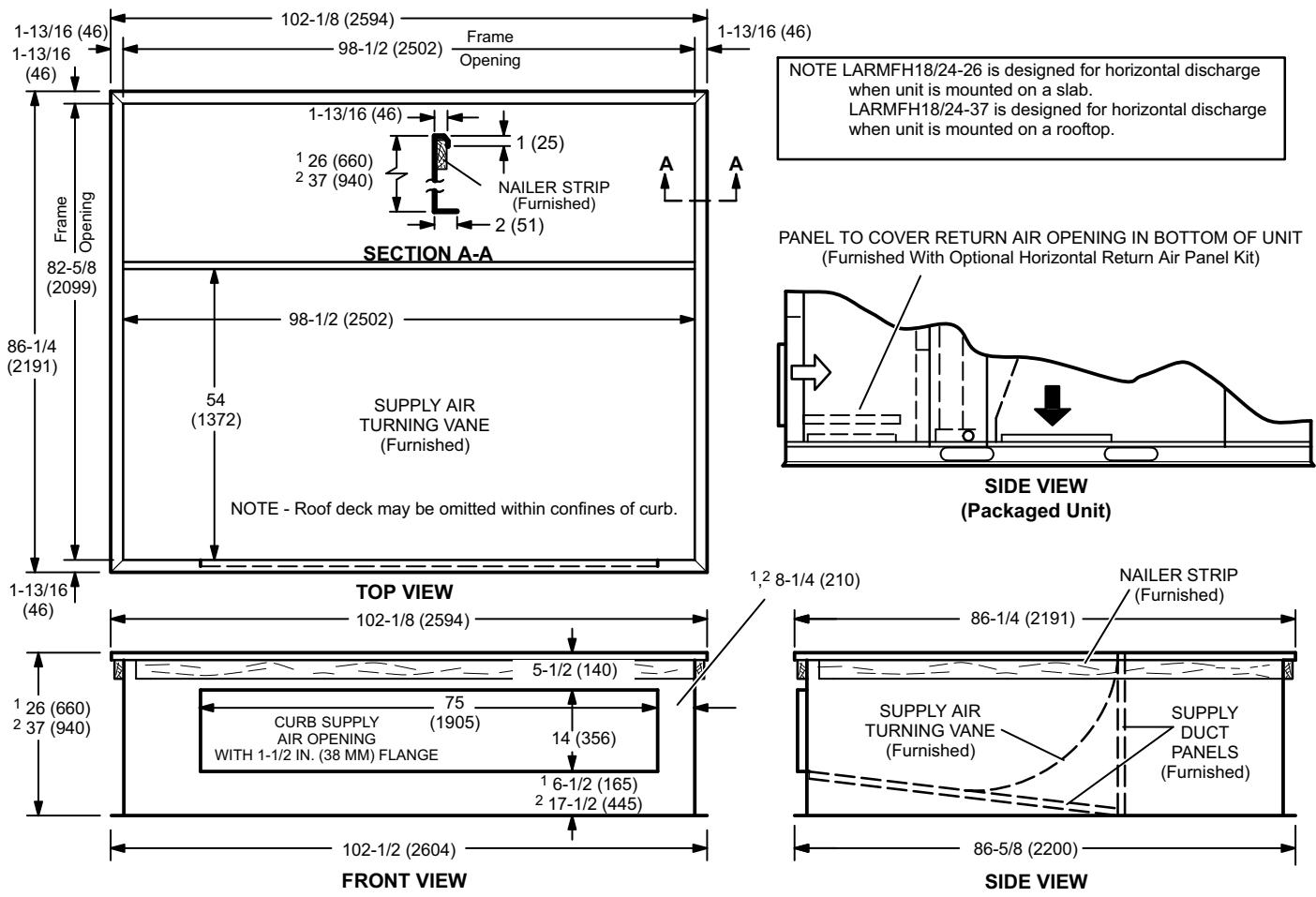
TOP VIEW

TRANSITION OPENING SIZES

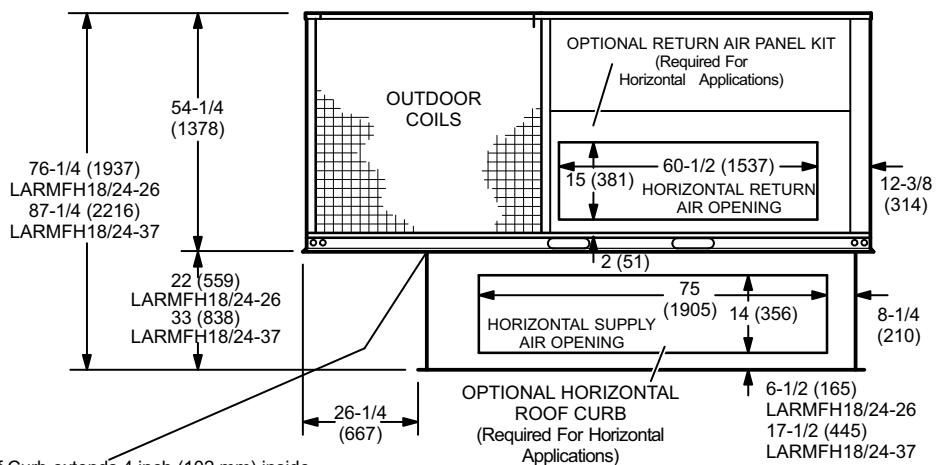
| Model Number | A | | B | |
|--------------|------|-----|------|------|
| | inch | mm | inch | mm |
| LASRT18 | 18 | 457 | 36 | 914 |
| LASRT21/24 | 24 | 610 | 48 | 1219 |

ACCESSORY DIMENSIONS - INCHES (MM)

HORIZONTAL ROOF CURBS - Requires Optional Horizontal Return Air Panel Kit



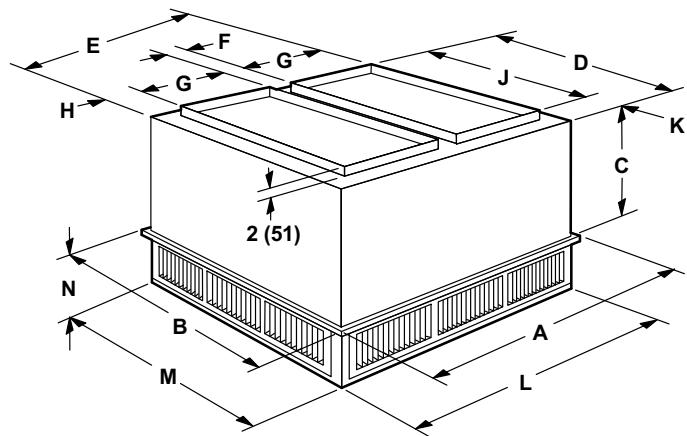
HORIZONTAL SUPPLY AND RETURN AIR OPENINGS WITH HORIZONTAL ROOF CURB



ACCESSORY DIMENSIONS - INCHES (MM)

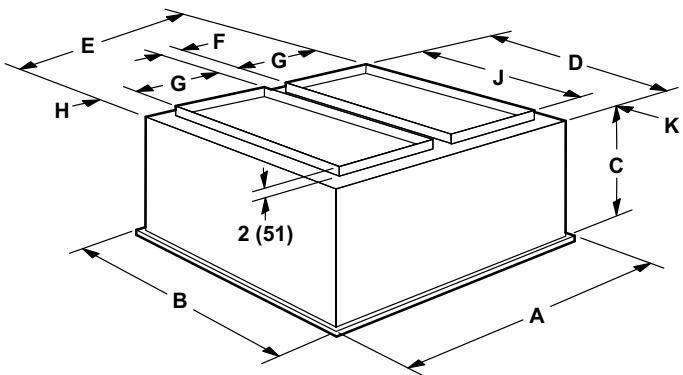
COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



| Model Number | | RTD11-185 | RTD11-275 |
|--------------|-----|-----------|------------|
| A | in. | 47-5/8 | 59-5/8 |
| | mm | 1210 | 1514 |
| B | in. | 47-5/8 | 59-5/8 |
| | mm | 1210 | 1514 |
| C | in. | 24-5/8 | 30-5/8 |
| | mm | 625 | 778 |
| D | in. | 45-1/2 | 57-1/2 |
| | mm | 1156 | 1461 |
| E | in. | 45-1/2 | 57-1/2 |
| | mm | 1156 | 1461 |
| F | in. | 4-1/2 | 4-1/2 |
| | mm | 114 | 114 |
| G | in. | 18 | 24 |
| | mm | 457 | 610 |
| H | in. | 2-1/2 | 2-1/2 |
| | mm | 64 | 64 |
| J | in. | 36 | 48 |
| | mm | 914 | 1219 |
| K | in. | 4-3/4 | 4-3/4 |
| | mm | 121 | 121 |
| L | in. | 45-1/2 | 57-1/2 |
| | mm | 1156 | 1461 |
| M | in. | 45-1/2 | 57-1/2 |
| | mm | 1156 | 1461 |
| N | in. | 10-1/8 | 11-1/8 |
| | mm | 257 | 283 |
| Duct Size | in. | 18 x 36 | 24 x 48 |
| | mm | 457 x 914 | 610 x 1219 |

FLUSH CEILING DIFFUSER



| Model Number | | FD11-185 | FD11-275 |
|--------------|-----|-----------|------------|
| A | in. | 47-5/8 | 59-5/8 |
| | mm | 1210 | 1514 |
| B | in. | 47-5/8 | 59-5/8 |
| | mm | 1210 | 1514 |
| C | in. | 29-1/4 | 35-1/4 |
| | mm | 743 | 895 |
| D | in. | 45 | 57 |
| | mm | 1143 | 1148 |
| E | in. | 45 | 57 |
| | mm | 1143 | 1448 |
| F | in. | 4-1/2 | 4-1/2 |
| | mm | 114 | 114 |
| G | in. | 18 | 24 |
| | mm | 457 | 610 |
| H | in. | 2-1/4 | 2-1/4 |
| | mm | 57 | 57 |
| J | in. | 36 | 48 |
| | mm | 914 | 1219 |
| K | in. | 4-1/2 | 4-1/2 |
| | mm | 114 | 114 |
| Duct Size | in. | 18 x 36 | 24 x 48 |
| | mm | 457 x 914 | 610 x 1219 |

REVISIONS

| Sections | Description of Change |
|----------------------|--|
| Optional Accessories | Updated Information - Smoke Detectors. |



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Installation and service must be performed by a qualified installer and servicing agency.

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