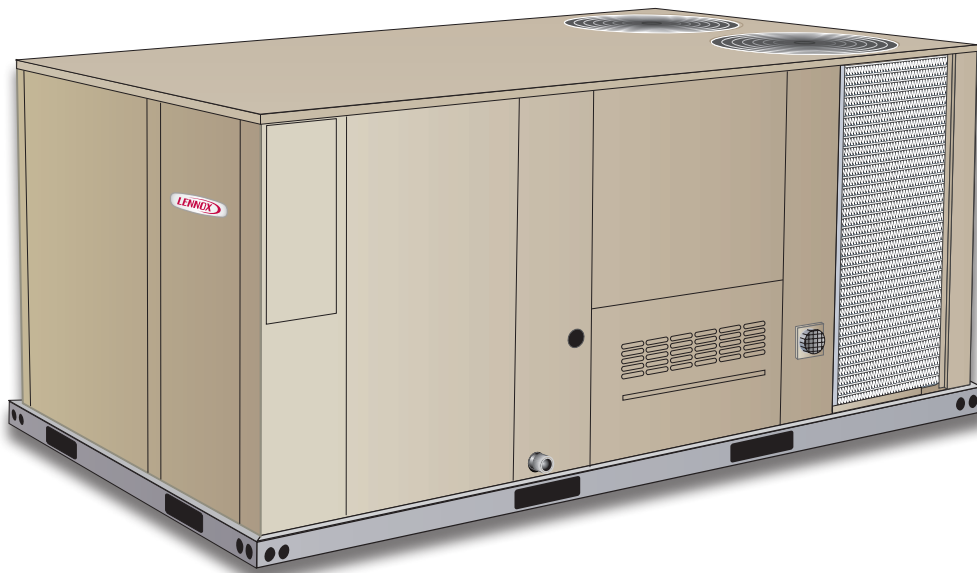




**COMMERCIAL
PRODUCT SPECIFICATIONS**

Bulletin No. 490171
March 2020
Supersedes February 2020



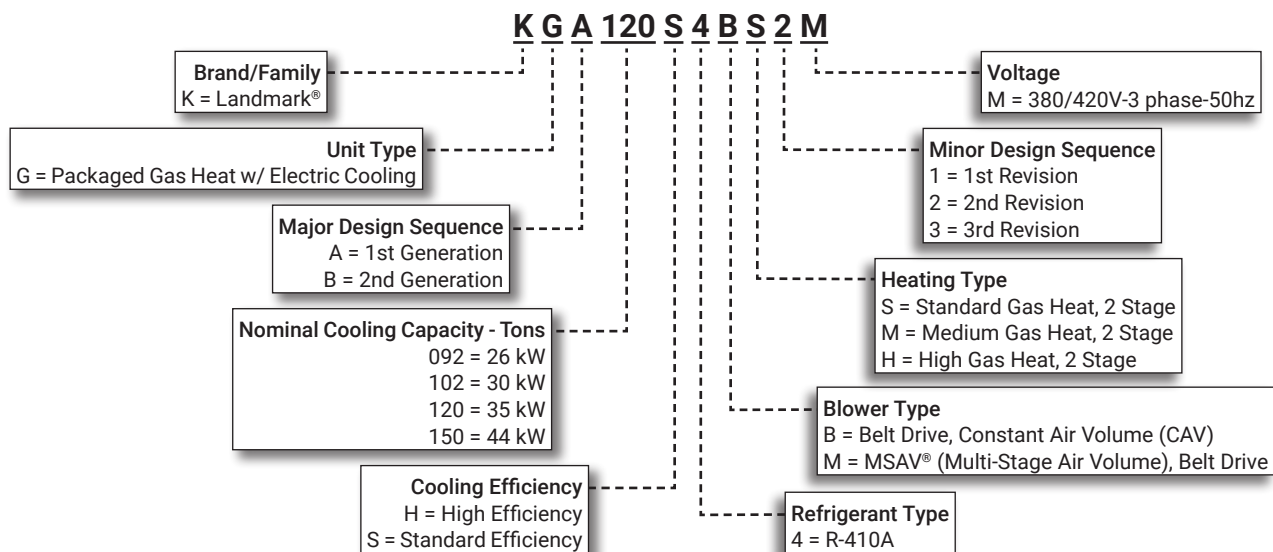
LANDMARK®

Performance Marked by Flexibility™



26 to 44 kW (7.5 to 12.5 Ton)
Net Cooling Capacity – 22.4 to 36.7 kW (74 500 to 123 300 Btuh)
Gas Input Heat Capacity - 24.7 to 70.3 kW (84 500 to 240 000 Btuh)

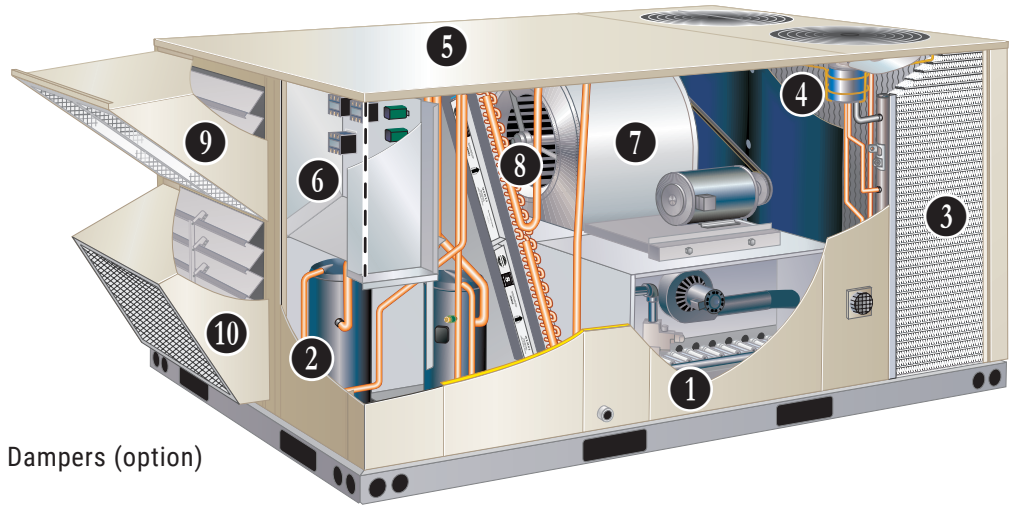
MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

Landmark® rooftop units from Lennox are the new standard for reliable, efficient rooftop units built for long-lasting performance that can significantly improve indoor environments.

1. Heat Exchanger
2. Scroll Compressors
3. Lennox' Environ™ Coil System
4. Outdoor Coil Fan Motors
5. Heavy Gauge Steel Cabinet
6. Unit Control
7. Constant or Multi-Stage Air Volume (MSAV®) Blower
8. Air Filters
9. Economizer (option)
10. Downflow Barometric Relief Dampers (option)



CONTENTS

| | |
|---|----|
| Approvals | 3 |
| Blower Data | 30 |
| Dimensions - Accessories | 40 |
| Dimensions - Unit | 39 |
| Electrical Data | 36 |
| Features And Benefits | 3 |
| High Altitude Derate | 18 |
| Model Number Identification | 1 |
| Optional Conventional Temperature Control Systems | 10 |
| Options / Accessories | 11 |
| Outdoor Sound Data | 34 |
| Ratings | 19 |
| Specifications | 14 |
| Specifications - Gas Heat | 18 |
| Unit Clearances | 37 |
| Weight Data | 38 |

APPROVALS

PERFORMANCE / QUALITY

- Components bonded for grounding to meet safety standards for servicing required by Underwriters Laboratories (UL) and the International Electrotechnical Commission (IEC)
- Cooling performance is rated at test conditions included in Air-Conditioning, Heating and Refrigeration Institute (AHRI) Standard 340/360 while operating at rated voltage and air volumes
- International Organization for Standardization (ISO) 9001 Registered Manufacturing Quality System

FEATURES AND BENEFITS

HEATING SYSTEM

- Aluminized steel inshot burners
- Direct spark ignition
- Electronic flame sensor
- Combustion air inducer
- Redundant automatic dual stage gas valve with manual shut-off

1 Heat Exchanger

- Tubular construction, aluminized steel
- Life-cycle tested

NOTE - Optional Stainless Steel Heat Exchanger is required if mixed air temperature is below 7°C

Electronic Pilot Ignition

- Electronic spark igniter provides positive direct ignition of burners on each operating cycle
- Permits main gas valve to stay open only when the burners are proven to be lit
- If loss of flame occurs, gas valve closes, shutting off the gas to the burners
- LED indicates status and aids in troubleshooting
- Watchguard circuit on module automatically resets ignition controls after one hour of continuous thermostat demand after unit lockout, eliminating nuisance service calls
- Factory installed in the gas heating compartment

Limit Controls

- Redundant limit controls with fixed temperature setting
- Protects heat exchanger and other components from overheating

Safety Switches

- Flame roll-out switch
- Flame sensor
- Combustion air inducer proving switch
- Protects system operation

Required Selections

Gas Input Choice - Order one:

- Standard Gas Heat, 2 Stage (24.7/38.1 kW)
- Medium Gas Heat, 2 Stage (34.3/52.7 kW)
- High Gas Heat, 2 Stage (45.7/70.3 kW)

Options/Accessories

Factory Installed

Stainless Steel Heat Exchanger

- Required if mixed air temperature is below 7°C

Factory or Field Installed

Bottom Gas Piping Kit

- Allows bottom gas entry
- Factory installed kit is furnished with the unit for field installation

Options/Accessories

Field Installed

Combustion Air Intake Extensions

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

LPG/Propane Kits

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

Vertical Vent Extension Kit

- Use to exhaust flue gases vertically above unit
- Required when unit vent is too close to fresh air intakes per building codes
- Also prevents ice formation on intake louvers
- Kit contains vent transition, vent tee, drain cap and installation hardware

NOTE - Straight vent pipes (102 mm B-Vent) and caps are not furnished and must be field supplied. Refer to kit instructions for additional information.

FEATURES AND BENEFITS

COOLING SYSTEM

- Designed to maximize sensible and latent cooling performance at design conditions
- System can operate from 4°C to 52°C without any additional controls

R-410A Refrigerant

- Non-chlorine based
- Ozone friendly

2 Scroll Compressors

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

Compressor Crankcase Heaters

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

Thermal Expansion Valves

(All High Efficiency Models, 150S Model)

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

Refrigerant Metering Orifice

(092 through 120 Standard Efficiency Models)

- Accurately meters refrigerant in system
- Refrigerant control is accomplished by exact sizing of refrigerant metering orifice

Filter/Driers

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

High Pressure Switches

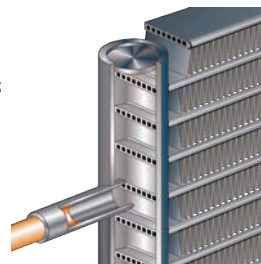
- Protects the compressor from overload conditions such as dirty condenser coils, blocked refrigerant flow, or loss of outdoor fan operation
- Automatic reset

Freezestats

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

3 Condenser Coil - Lennox' Environ™ Coil System (092 through 120 models only)

- Lightweight, all aluminum brazed fin construction
- Constructed of three components
 - A flat extrusion tube
 - Fins in-between the flat extrusion tube
 - Two refrigerant manifolds



Environ™ Coil System Features:

- Improved heat transfer performance due to high primary surface area (flat tubes) versus secondary surface (fins)
- Smaller internal volume (reduced refrigerant charge)
- High durability
- All aluminum construction
- Fewer brazed joints
- Compact design
- Reduced unit weight
- Easy maintenance/cleaning
- Face split design
- Mounting brackets with rubber inserts

Conventional Fin/Tube Condenser Coils

(150 models only, optional 092-120 models)

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction

Evaporator Coil

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction
- Factory leak tested
- Cross row circuiting with rifled tubing

Condensate Drain Pan

- Plastic pan, sloped to meet drainage requirements per ASHRAE 62.1
- Side or bottom drain connections
- Reversible to allow connection at back of unit

4 Outdoor Coil Fan Motors

- Thermal overload protected
- Totally enclosed
- Permanently lubricated ball bearings
- Shaft up
- Wire basket mount

Outdoor Coil Fans

- Polyvinyl Chloride (PVC) coated fan guard furnished

FEATURES AND BENEFITS

COOLING SYSTEM (continued)

Required Selections

Cooling Capacity

- Specify nominal cooling capacity

Cooling Efficiency

- Specify either standard or high efficiency

Options/Accessories

Factory Installed

Conventional Fin/Tube Condenser Coil (replaces Environ™ Coil System - 092 through 120 models only)

- Copper tube construction
- Enhanced rippled-edge aluminum fins
- Flared shoulder tubing connections
- Silver soldered construction

Field Installed

Condensate Drain Trap

- Available in copper or polyvinyl chloride (PVC)

Drain Pan Overflow Switch

- Monitors condensate level in drain pan
- Shuts down unit if drain becomes clogged

Low Ambient Controls

- Units operate satisfactorily down to 7°C outdoor air temperature without any additional controls
- Two low ambient control options are available for field installation:
 1. **Low Ambient Control Kit (-1.1°C)** - Allows unit operation down to -1.1°C
 2. **Low Ambient Control Kit (-18°F)** - Allows unit operation down to -18°C without evaporator coil icing. Head pressure speed control reduces outdoor fan operation during low ambient conditions until head pressure rises to the setpoint. Pressure transducers are mounted on the liquid lines. High pressure switches are furnished to replace existing. Wiring harnesses are furnished for simple plug-in wiring to fans and controller.

CABINET

5 Construction

- Heavy-gauge steel panels
- Full perimeter heavy-gauge galvanized steel base rail
- Base rails have rigging holes
- Three sides of the base rail have forklift slots
- Raised edges around duct and power entry openings in the bottom of the unit for water protection

Airflow Choice

- Units are shipped in downflow (vertical) return air flow configuration

NOTE - Units can be field converted to horizontal airflow with optional Horizontal Discharge Kit.

Duct Flanges

- Provided for horizontal duct attachment

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
- Two-layer enamel paint finish

Insulation

- Fully insulated with non-hygroscopic fiberglass insulation (conditioned areas)
- Unit base is fully insulated
- Base insulation serves as an air seal to the roof curb, eliminating the need to add a seal during installation

Access Panels

- Filter section
- Blower/heating section
- Compressor/controls section

Options/Accessories

Factory Installed

Corrosion Protection

- Completely flexible immersed coating
- Electrodeposited dry film process
- AST ElectroFin E-Coat
- Meets Mil Spec MIL-P-53084, ASTM B117 Standard Method Salt Spray Testing
- Indoor Corrosion Protection:
 - Coated coil
 - Painted blower housing
 - Painted base
- Outdoor Corrosion Protection:
 - Coated coil
 - Painted outdoor base

Hinged Access Panels

- Tool-less access
- Filter section
- Blower/heating section
- Compressor/controls section
- Panel seals and quarter-turn latching handles provide a tight air and water seal

FEATURES AND BENEFITS

CABINET (continued)

Options/Accessories

Field Installed

Combination Coil/Hail Guards

- Heavy gauge steel frame
- Painted to match cabinet
- Expanded metal mesh protects outdoor coil

Horizontal Discharge Kit

- Consists of duct covers to block off downflow supply and return air openings for horizontal applications
- Also includes return air duct flanges for end return air when economizer is used in horizontal applications

NOTE - When configuring unit for horizontal application with economizer, a separate Horizontal Barometric Relief Damper with Hood must be ordered separately for installation in the return air duct.

Return Air Adaptor Plate

- For same size LC/LG/LH and TC/TG/TH unit replacement
- Installs on return air opening in unit to match return air opening on existing roof curbs
- Also see Accessory Air Resistance table

CONTROLS

6 Unit Control

- All control voltage is provided via a 24V (secondary) transformer with built-in circuit breaker protection
- **Heat/Cool Staging** - Capable of up to 2 heat / 2 cool staging with a third party DDC control system or thermostat
- **Low Voltage Terminal Block** - Provides screw terminal connections for thermostat or controller wiring
- **Night Setback Mode** - Saves energy by closing outdoor air dampers and operating supply fan on thermostat demand only

Options/Accessories

Field Installed

Smoke Detector

- Photoelectric type
- Installed in supply air section, return air section or both sections
- Available with power board and single sensor (supply or return) or power board and two sensors (supply and return)

Commercial Control Systems

Thermostats

- Control system and thermostat options. Aftermarket unit controller options. See page 10

BLOWER

- A wide selection of supply air blower options are available to meet a variety of airflow requirements

Motor

- Overload protected
- Ball bearings
- Belt drive motors are offered on all models and are available in several different sizes to maximize air performance

7 Supply Air Blower

- Forward curved blades
- Double inlet
- Blower wheel statically and dynamically balanced
- Ball bearings
- Adjustable pulley (allows speed change)
- Blower assembly slides out of unit for servicing

Required Selections

Select Constant Air Volume (CAV) or MSAV® (Multi-Stage Air Volume) Blower Option

- Order blower motor horsepower and drive kit number required when base unit is ordered
- See Drive Kit Specifications Table

CAV Operation

- Supply air blower will provide a constant volume of air

MSAV Operation

- Units utilize a Variable Frequency Drive (VFD) to stage the supply air blower airflow
- The VFD alters the frequency and voltage of the power supply to the blower to control blower speed
- The supply air blower has two speeds:
 - Low speed for part-load cooling operation. Note - Low speed is 66% of high speed
 - High speed for full load cooling and all heat modes
- Full speed blower operation is set by adjusting the motor pulley to deliver the desired air volume
- The ventilation speed is selectable between high and low speed

NOTE - Part load airflow in cooling mode on MSAV units should not be set below 30 L/s per kW to reduce the risk of evaporator coil freeze-up.

- The VFD has an operational range of -40 to 52°C outdoor air ambient temperature
- Lower operating costs are obtained when the blower is operated on lower speeds

FEATURES AND BENEFITS

BLOWER (continued)

MSAV Sequence of Operation

- Ventilation speed is determined by the VENT SPEED switch setting on VFD control board (LO or HI)
- Blower operates in low speed for mechanical cooling (Y1)
- Blower operates in high speed for any other mode (free cooling, mechanical cooling Y1+Y2, and heating)
- Economizer damper minimum position is fully closed in unoccupied mode
- In occupied mode, the economizer damper minimum position is determined by the setting of the two potentiometers on VFD control board:
 - LO SPD MIN POS potentiometer sets the minimum position when blower is operating at low speed
 - HI SPD MIN POS potentiometer sets the minimum position when blower is operating at high speed

Options/Accessories

Field Installed

VFD Manual Bypass Kit

- VFD Manual Bypass Control is available as a kit for units equipped with the MSAV option
- The VFD Manual Bypass Control is a manual bypass and is enabled by re-configuring the wiring on the unit

ELECTRICAL

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.

Phase Monitor (Factory Installed on Units Equipped with the MSAV® Supply Air Blower Option)

- Phase monitor located in the control compartment detects the phasing of incoming power. If the incoming power is out of phase or if any of the three phases are lost, an indicator LED on the phase monitor will turn red and the unit will not start. In normal operation with correct incoming power phasing, the LED will be green.

Required Selections

Voltage Choice

- Specify when ordering base unit.

INDOOR AIR QUALITY

8 Air Filters

- Disposable 51 mm filters furnished as standard.

Options / Accessories

Field Installed

Healthy Climate® High Efficiency Air Filters

- Disposable MERV 8 or MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 51 mm pleated filters.

Replacement Filter Media Kit With Frame

- Replaces existing pleated filter media. Includes washable metal mesh screen and metal frame with clip for holding replaceable non-pleated filter.

Healthy Climate® UVC Germicidal Lamps



- Germicidal lamps emit ultra-violet (UV-C) energy, which has been proven to be effective in reducing microbes such as viruses, bacteria, yeasts, and molds. This process either destroys the organism or controls its ability to reproduce.
- UV-C energy greatly reduces the growth and proliferation of mold and other bioaerosols (bacteria and viruses) on illuminated surfaces (particularly coil and drain pan).
- Lamps are field installed in the blower/evaporator coil section.
- All necessary hardware for installation is included.
- Lamps operate on 220V single-phase power supply. Step-down transformer may be ordered separately for 380/420V primary to 220V secondary units. Alternately, 220V power supply may be used to directly power the UVC ballast(s).
- Magnetic safety interlock terminates power when access panels are removed.

Indoor Air Quality (CO₂) Sensors

- Monitors CO₂ levels, reports to the Unit Controller which adjusts economizer dampers as needed.

ECONOMIZER OPTIONS

Factory or Field Installed

9 Economizer (Standard and High Performance Common Features)

- Downflow or Horizontal with Outdoor Air Hood and Barometric Relief Dampers with Exhaust Hood

10 • Barometric Relief Dampers allow relief of excess air

- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle, bird screen furnished

NOTE - Optional Horizontal Low Profile Barometric Relief Dampers with Exhaust Hood are available for field installation in a reduced space.

- Occupied/Unoccupied mode with field furnished setback thermostat
- Demand Control Ventilation (DCV) ready using optional CO₂ sensors
- Mixed Air Sensor is furnished for field installation in the rooftop unit
- Sensor is factory installed when Economizers are factory installed
- Single sensible sensor is furnished with Economizer and enables economizer operation if the outdoor temperature is less than the setpoint of the control

Standard Economizer Features

- Gear-driven action
- Return air and outdoor air dampers
- Plug-in connections to unit
- Nylon bearings
- Neoprene seals
- 24-volt
- Fully-modulating spring return motor

Standard Economizer Control Module

- The Standard Economizer Control Module can be adjusted to operate based on outdoor air temperatures



Economizer Controls:

- Damper Minimum Position - Can be set lower than traditional minimum air requirements resulting in cost savings
 - IAQ Sensor - Signals dampers to modulate and maintain 13°C when CO₂ is higher than the CO₂ setpoint
 - Demand Control Ventilation (DCV) LED - A steady green Demand Control Ventilation LED indicates the IAQ reading is higher than setpoint and requires more fresh air
 - Free Cool LED - A steady green LED indicates outdoor air is suitable for free cooling
- Free Cooling runs when outdoor air temperature is lower than the set temperature on the economizer control

NOTE: The Free Cooling default setting for outdoor air temperature sensor is 13°C.

High Performance Economizer Features

- Gear-driven action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit
- Stainless steel bearings
- Enhanced neoprene blade edge seals
- Flexible stainless steel jamb seals minimize air leakage

High Performance Economizer Control Module

- Module provides inputs and outputs to control economizer based on parameter settings
- Module automatically detects sensors by polling to determine which sensors are installed in system
- Module displays any alarm messages (fault detection and diagnostics) as an aid in troubleshooting
- Non-volatile memory retains parameter settings in case of power failure
- Keypad with four navigation buttons and LCD screen is furnished for setting economizer parameters
- Menu Up/Exit (⬆) button returns to the main menu
- Arrow Up (▲) button moves to the previous or next parameter within the selected menu
- Arrow Down (▼) button moves to the next parameter within the selected menu
- Select (enter) (↵) button confirms parameter selection



Main Menu Structure:

- STATUS (economizer and system operation status)
- SETPOINTS (settings for various setpoint parameters)
- SYSTEM SETUP (settings/information about the system)
- ADVANCED SETUP (freeze protection, CO₂ settings, stage 3 delay and additional calibration settings)
- CHECKOUT (damper positions)
- ALARMS (output signal that can be configured for remote alarm monitoring)

NOTE - Refer to Installation Instructions for complete setup information and menu parameters available.

Factory or Field Installed

Single Enthalpy Temperature Control

- Outdoor air enthalpy sensor enables Economizer if the outdoor enthalpy is less than the setpoint of the control

Field Installed

Differential Enthalpy Control

- Order two Single Enthalpy Controls
- One is field installed in the return air section, the other in the outdoor air section
- Allows the economizer control board to select between outdoor air or return air, whichever has lower enthalpy

OPTIONS / ACCESSORIES

EXHAUST OPTIONS

Field Installed

Horizontal Low Profile Barometric Relief Dampers

- Replaces barometric relief dampers furnished with Economizer
- For use when unit is configured for horizontal applications in a reduced space requiring an economizer
- Allows relief of excess air
- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle
- Field installed in return air duct
- Exhaust hood with bird screen furnished

NOTE - Requires Horizontal Discharge Kit

Power Exhaust Fan

- Installs internal to unit for downflow applications only with economizer option
- Provides exhaust air pressure relief
- Interlocked to run when supply air blower is operating,
- Fan runs when outdoor air dampers are 50% open (adjustable)
- Motor is overload protected
- Fan - 508 mm diameter
- Five blades
- One 0.25 kW motor

NOTE - Requires Economizer and Downflow Barometric Relief Dampers.

OUTDOOR AIR OPTIONS

Factory or Field Installed

Outdoor Air Damper

- Downflow or Horizontal
- Linked mechanical dampers
- 0 to 25% (fixed) outdoor air adjustable
- Installs in unit
- Includes outdoor air hood
- Automatic model features fully modulating spring return damper motor with plug-in connection
- Manual model features parallel blade, gear-driven dampers with adjustable fixed position

NOTE - Maximum mixed air temperature in cooling mode: 38°C.

ROOF CURBS

Field Installed

- Nailer strip furnished (downflow only)
- Mates to unit
- US National Roofing Contractors Approved
- Shipped knocked down

Hybrid Roof Curbs, Downflow

- Interlocking tabs fasten corners together
- No tools required
- Can also be fastened together with furnished hardware
- Available in 203, 356, 457, and 610 mm heights

Adjustable Pitch Curb

- Fully adjustable pitch curbs provide a level platform for rooftop units allowing flexible installations on roofs with uneven or sloped angles
- Maximum slope is 19 mm per 300 mm in any direction
- Uses interlocking tabs to fasten corners together
- No tools required
- Hardware is furnished to connect upper curb with lower curb
- Available in 356 mm height

Adaptor Curbs (not shown)

- Curbs are regionally sourced
- Dimensions vary based upon the source

NOTE - Contact your local sales representative for a detailed cut sheet with applicable dimensions.

CEILING DIFFUSERS

Field Installed

Ceiling Diffusers (Flush or Step-Down)

- White powder coat finish on diffuser face and grilles
- Insulated UL listed duct liner
- Diffuser box has collars for duct connection
- Step-down diffusers have double deflection blades
- Flush diffusers have fixed blades
- Provisions for suspending
- Internally sealed to prevent recirculation
- Removable return air grille
- 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

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

Comfortsense® 7500 Commercial 7-Day Programmable Thermostat



- Four-Stage Heating / Two-Stage Cooling
- Universal Multi-Stage
- Intuitive Touchscreen Interface
- Automatic Changeover between Heating and Cooling
- Full Seven-Day Programming
- Four Time Periods Per Day
- Temperature and Humidity Control
- One-Touch Away Mode
- Holiday Scheduling
- Smooth Setback Recovery (SSR)
- Performance Reports
- Notifications/Reminders
- Dehumidification/Humiditrol® Control for Split Systems and Rooftop Units
- Economizer Relay Control
- Backlit Display
- Wallplate Furnished
- FDD, ASHRAE and IECC Compliant

Comfortsense® 3000 Commercial 5-2 Day Programmable Thermostat



- Two-Stage Heating / Two-Stage Cooling
- Conventional Systems
- Intuitive Interface
- 5-2 Day Programming
- Program Hold
- Remote Indoor Temperature Sensing
- Smooth Setback Recovery (SSR)
- Economizer Relay Control
- Maintenance/Filter/Service Reminders
- Backlit Display
- Wallplate Furnished
- Simple Up and Down Temperature Control

Bacnet Compatible Thermostat With Reheat Function



- 7-Day Programmable
- For units with or without Humiditrol®
- BTL listed MS/TP ensures compatibility with any BACnet system
- Built-in control programs for conventional and heat pump applications
- Conventional systems up to 3-stage heat and 3-stage cool
- Heat pumps with 1 or 2 compressors and up to 2-stage auxiliary heat
- On-board temperature and humidity sensor
- Multiple configurable inputs and outputs enable advanced control strategies
- Set-up Wizard enables rapid system configuration
- No special tools required for installation or commissioning
- Seven-day (2, 4 or 6 event) occupancy scheduling per day
- Backlit 5-inch LCD touchscreen

| Description | Model No. | Catalog No. |
|---|--|--------------------------|
| Comfortsense® 7500 7-Day Programmable | C0STAT06FF2L | 17G74 |
| Universal thermostat locking guard (clear) | C0MISC15AE1- | 39P21 |
| Temperature Sensors | 1 Remote non-adjustable wall-mount 20k | 47W36 |
| | 1 Remote non-adjustable wall-mount 10k | 47W37 |
| | Remote non-adjustable discharge air (duct mount) | 19L22 |
| | Outdoor temperature sensor | X2658 |
| ¹ Remote wall-mount sensors can be applied in any of the following combinations: One Sensor - (1) 47W36 Two Sensors - (2) 47W37 Three Sensors - (2) 47W36 and (1) 47W37 Four Sensors - (4) 47W36 Five Sensors - (3) 47W36 and (2) 47W37 | | |
| Comfortsense® 3000 5-2 Day Programmable | C0STAT05FF1L | 11Y05 |
| Thermostat wall mounting plate | C0MISC17AE1- | X2659 |
| Temperature Sensor | Remote non-adjustable wall mount 10k averaging | 47W37 |
| 1 7-Day Programmable - Bacnet Compatible | - - - | Y8241 |
| ¹ BACnet Thermostat (Y8241) will control units with and without the Humiditrol® option. If there is a mix of units equipped with and without Humiditrol on the same site, this thermostat can be used for all units if desired. | | |
| BACnet Controls (no reheat) | BACnet® Module (factory or field installed) | K0CTRL31B-2 16X71 |
| | BACnet® Room Sensor with Display (field) | K0SNSR01FF1 97W23 |
| | BACnet® Room Sensor without Display (field) | K0SNSR00FF1 97W24 |
| Optional Accessories | Plenum Cable (RJ45/CAT5 75 ft.) | K0MISC00FF1 97W25 |

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | | | | |
|--|--|-----------------------|---------------|-----|-----|-----|---|
| | | | 092 | 102 | 120 | 150 | |
| COOLING SYSTEM | | | | | | | |
| Condensate Drain Trap | Polyvinyl Chloride (PVC) - C1TRAP20AD2 | 76W26 | X | X | X | X | |
| | Copper - C1TRAP10AD2 | 76W27 | X | X | X | X | |
| Conventional Fin/Tube Condenser Coil (replaces Environ™ Coil System) | | Factory | O | O | O | | |
| Corrosion Protection | | Factory | O | O | O | O | |
| Drain Pan Overflow Switch | K1SNSR71AB1 | 74W42 | X | X | X | X | |
| Efficiency | | Standard | O | O | O | O | |
| Low Ambient Kit | 30°F - K1SNSR33B-1 | 54W16 | X | X | X | X | |
| | 0°F - K1LOAM62B-1 | 18B87 | X | X | X | | |
| | 0°F - K1LOAM62BS1 | 18B94 | | | | X | |
| Refrigerant Type | | R-410A | O | O | O | O | |
| HEATING SYSTEM | | | | | | | |
| Bottom Gas Piping Kit | C1GPKT01B-01 | 54W95 | X | X | X | X | |
| Combustion Air Intake Extensions | T1EXTN10AN1 | 19W51 | X | X | X | X | |
| Gas Heat Input | Standard Heat 38.1 kW (130,000 Btuh) | Factory | O | O | O | O | |
| | Medium Heat 52.7 kW (180,000 Btuh) | Factory | O | O | O | O | |
| | High Heat 70.3 kW (240,000 Btuh) | Factory | O | O | O | O | |
| LPG/Propane Conversion Kits | Standard Heat - C1PROP23BS1 | 14N22 | X | X | X | X | |
| | Medium Heat - C1PROP22BS1 | 14N23 | X | X | X | X | |
| | High Heat - C1PROP21BS1 | 14N25 | X | X | X | X | |
| Stainless Steel Heat Exchanger | | Factory | O | O | O | O | |
| Vertical Vent Extension | C1EXTN2021 | 42W16 | X | X | X | X | |
| BLOWER - SUPPLY AIR | | | | | | | |
| Blower Option | CAV (Constant Air Volume) | Factory | O | O | O | O | |
| | MSAV® (Multi-Stage Air Volume) | Factory | O | O | O | O | |
| Blower Motors | Belt Drive - 1.5 kW (2 hp) | Factory | O | O | O | O | |
| | Belt Drive - 2.2 kW (3 hp) | Factory | O | O | O | O | |
| | Belt Drive - 3.7 kW (5 hp) | Factory | O | O | O | O | |
| Drive Kits | CAV (rev/min) | MSAV (rev/min) | | | | | |
| See Blower Data Tables for selection | Kit #1 490-740 | Kit #1 590-890 | Factory | O | O | O | O |
| | Kit #2 665-920 | Kit #2 800-1105 | Factory | O | O | O | O |
| | Kit #3 660-995 | Kit #3 795-1195 | Factory | O | O | O | O |
| | Kit #7 610-810 | Kit #7 730-970 | Factory | O | O | O | O |
| | Kit #8 780-1000 | Kit #8 940-1200 | Factory | O | O | O | O |
| | Kit #9 845-1085 | Kit #9 1015-1300 | Factory | O | O | O | O |
| | Kit #10 750-945 | Kit #10 900-1135 | Factory | O | O | O | O |
| | Kit #11 865-1095 | Kit #11 1040-1315 | Factory | O | O | O | O |
| | Kit #12 940-1190 | Kit #12 1125-1425 | Factory | O | O | O | O |
| | CABINET | | | | | | |
| | Combination Coil/Hail Guards | C1GARD52B-1 | 13T05 | X | X | X | X |
| | Hinged Access Panels | | Factory | O | O | O | O |
| Horizontal Discharge Kit | K1HECK00B-1 | 51W25 | X | X | X | X | |
| Return Air Adaptor Plate (for LC/LG/LH and TC/TG/TH replacement) | C1CONV10B-1 | 54W96 | X | X | X | X | |

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | | | |
|--|-----------------------|----------------|---------------|-----|-----|-----|
| | | | 092 | 102 | 120 | 150 |
| CONTROLS | | | | | | |
| NOTE - Also see Conventional Thermostat Control Systems page 10 for Additional Options. | | | | | | |
| Smoke Detector - Supply or Return (Power board and one sensor) | C1SNSR44B-2 | 11K76 | X | X | X | X |
| Smoke Detector - Supply and Return (Power board and two sensors) | C1SNSR43B-2 | 11K80 | X | X | X | X |
| INDOOR AIR QUALITY | | | | | | |
| Air Filters | | | | | | |
| Healthy Climate® High Efficiency Air Filters 208 x 635 x 51 mm (Order 4 per unit) | MERV 8 - C1FLTR15B-1 | 50W61 | X | X | X | X |
| | MERV 13 - C1FLTR40B-1 | 52W41 | X | X | X | X |
| Replacement Media Filter With Metal Mesh Frame (includes non-pleated filter media) | C1FLTR30B-1- | Y3063 | X | X | X | X |
| Indoor Air Quality (CO₂) Sensors | | | | | | |
| Sensor - Wall-mount, off-white plastic cover with LCD display | C0SNSR50AE1L | 77N39 | X | X | X | X |
| Sensor - Wall-mount, off-white plastic cover, no display | C0SNSR52AE1L | 87N53 | X | X | X | X |
| Sensor - Black plastic case with LCD display, rated for plenum mounting | C0SNSR51AE1L | 87N52 | X | X | X | X |
| Sensor - Wall-mount, black plastic case, no display, rated for plenum mounting | C0MISC19AE1 | 87N54 | X | X | X | X |
| CO ₂ Sensor Duct Mounting Kit - for downflow applications | C0MISC19AE1- | 85L43 | X | X | X | X |
| Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (87N53 or 77N39) | C0MISC16AE1- | 90N43 | X | X | X | X |
| UVC Germicidal Lamps | | | | | | |
| ¹ Healthy Climate® UVC Light Kit (220V-1ph) | C1UVCL10B-1 | 54W62 | X | X | X | X |
| ELECTRICAL | | | | | | |
| Voltage 50 hz with neutral | 380/420V - 3 phase | Factory | O | O | O | O |
| ECONOMIZER | | | | | | |
| Standard Economizer | | | | | | |
| Standard Economizer with Single Temperature Control Downflow or Horizontal Applications - Includes Barometric Relief Dampers and Air Hoods | K1ECON20B-2 | 13U45 | OX | OX | OX | OX |
| Standard Economizer Controls | | | | | | |
| Single Enthalpy Control | C1SNSR64FF1 | 53W64 | OX | OX | OX | OX |
| Differential Enthalpy Control (order 2) | C1SNSR64FF1 | 53W64 | X | X | X | X |
| High Performance Economizer | | | | | | |
| High Performance Economizer with Single Temperature Control Downflow or Horizontal Applications - Includes Barometric Relief Dampers and Air Hoods | K1ECON22B-3 | 17U09 | OX | OX | OX | OX |
| High Performance Economizer Controls | | | | | | |
| Single Enthalpy Control | C1SNSR60FF1 | 10Z75 | OX | OX | OX | OX |
| Differential Enthalpy Control (order 2) | C1SNSR60FF1 | 10Z75 | X | X | X | X |
| Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood | | | | | | |
| Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood | LAGEDH03/15 | 53K04 | X | X | X | X |

¹ Lamps operate on 220V single-phase power supply. Step-down transformer may be ordered separately for 380/420V primary to 220V secondary units. Alternately, 220V power supply may be used to directly power the UVC ballast(s)

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

OPTIONS / ACCESSORIES

| Item Description | Model Number | Catalog Number | Unit Model No | | | |
|--|-----------------------------|----------------|---------------|-----|-----|-----|
| | | | 092 | 102 | 120 | 150 |
| OUTDOOR AIR | | | | | | |
| Outdoor Air Dampers With Outdoor Air Hood | | | | | | |
| Motorized | C1DAMP20B-1 | 14G28 | OX | OX | OX | OX |
| Manual | C1DAMP10B-1 | 14G29 | OX | OX | OX | OX |
| POWER EXHAUST | | | | | | |
| Standard Static | 380/420V-3ph - K1PWRE10B-1G | 53W45 | X | X | X | X |
| ROOF CURBS | | | | | | |
| Hybrid Roof Curbs, Downflow | | | | | | |
| 203 mm height | C1CURB70B-1 | 11F54 | X | X | X | X |
| 356 mm height | C1CURB71B-1 | 11F55 | X | X | X | X |
| 457 mm height | C1CURB72B-1 | 11F56 | X | X | X | X |
| 610 mm height | C1CURB73B-1 | 11F57 | X | X | X | X |
| Adjustable Pitch Curb | | | | | | |
| 356 mm height | C1CURB55B-1 | 54W50 | X | X | X | X |
| CEILING DIFFUSERS | | | | | | |
| Step-Down - Order one | RTD11-95S | 13K61 | X | | | |
| | RTD11-135S | 13K62 | | X | X | |
| | RTD11-185S | 13K63 | | | | X |
| Flush - Order one | FD11-95S | 13K56 | X | | | |
| | FD11-135S | 13K57 | | X | X | |
| | FD11-185S | 13K58 | | | | X |
| Transitions (Supply and Return) - Order one | C1DIFF30B-1 | 12X65 | X | | | |
| | C1DIFF31B-1 | 12X66 | | X | X | |
| | C1DIFF32B-1 | 12X67 | | | | X |

NOTE - Catalog and model numbers shown are for ordering field installed accessories.

OX - Configure To Order (Factory Installed) or Field Installed

O = Configure To Order (Factory Installed)

X = Field Installed

SPECIFICATIONS

| General Data | | Nominal kW (Tons) | 26 (7.5) | 26 (7.5) | 26 (7.5) |
|---|--|----------------------------|--|------------------------------------|----------------------------------|
| | | Model Number | KGB092S4B | KGB092S4M | KGA092H4B |
| | | Efficiency Type | Standard | Standard | High |
| | | Blower Type | CAV (Constant Air Volume) | MSAV® (Multi-Stage Air Volume) | CAV (Constant Air Volume) |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | | 22.5 (76 700) | 22.5 (76 700) | 23.6 (80 500) |
| | ¹ Net Cooling Capacity - kW (Btuh) | | 21.8 (74 500) | 21.8 (74 500) | 22.7 (77 500) |
| | AHRI Rated Air Flow - L/s (cfm) | | 1133 (2400) | 1133 (2400) | 1416 (3000) |
| | Total Unit Power - kW | | 6.6 | 6.6 | 6.4 |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | | 11.3 | 11.3 | 12.7 |
| | ² EER (Btuh/Watt) at 46°C (115°F) | | 8.7 | 8.7 | 8.8 |
| | ¹ IEER (Btuh/Watt) | | 12.7 | 13.4 | 12.9 |
| Refrigerant Type | | | R-410A | R-410A | R-410A |
| Refrigerant Charge | Environ™ Coil System | Circuit 1 | 1.9 kg (4 lbs. 0 oz.) | 1.9 kg (4 lbs. 0 oz.) | 2.90 kg (6 lbs. 6 oz.) |
| | | Circuit 2 | 1.5 kg (3 lbs. 6 oz.) | 1.5 kg (3 lbs. 6 oz.) | 2.93 kg (6 lbs. 7 oz.) |
| | Conventional Fin/Tube Coil | Circuit 1 | 4.1 kg (9 lbs. 0 oz.) | 4.1 kg (9 lbs. 0 oz.) | - - - |
| | | Circuit 2 | 3.1 kg (6 lbs. 13 oz.) | 3.1 kg (6 lbs. 13 oz.) | - - - |
| Gas Heating Options Available - See page 11 | | | Standard (2 stage), Medium (2 Stage), High (2 Stage) | | |
| Compressor Type (number) | | | Scroll (2) | Scroll (2) | Scroll (2) |
| Outdoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.9 (20.5) | 1.9 (20.5) | 2.6 (28.0) |
| | Number of rows | | 1 (2) | 1 (2) | 1 |
| | Fins per m (inch) | | 906 (23) 787 (20) | 906 (23) 787 (20) | 787 (20) |
| Outdoor Coil Fans | Motor - (No.) W (HP) | | (2) 249 (1/3) | (2) 249 (1/3) | (2) 249 (1/3) |
| | Motor rev/min | | 896 | 896 | 896 |
| | Total Motor watts | | 565 | 565 | 611 |
| | Diameter - (No.) mm (in.) | | (2) 610 (24) | (2) 610 (24) | (2) 610 (24) |
| | Number of blades | | 3 | 3 | 3 |
| | Total Air volume - L/s (cfm) | | 3460 (7335) | 3460 (7335) | 3460 (7335) |
| Indoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.19 (12.8) | 1.19 (12.8) | 1.19 (12.8) |
| | Tube diameter - mm (in.) | | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) |
| | Number of rows | | 2 | 2 | 4 |
| | Fins per m (inch) | | 551 (14) | 551 (14) | 551 (14) |
| | Drain connection - Number and size | | (1) 1 in. NPT coupling | | |
| | Expansion device type | | Refrigerant Metering Orifice (RFC) | Refrigerant Metering Orifice (RFC) | Balance port TXV, removable head |
| ³ Indoor Blower and Drive Selection | Nominal motor kW (HP) | | 1.5 (2) | 1.5 (2) | 1.5 (2) |
| | Maximum usable motor kW (HP) | | 1.7 (2.3) | 1.7 (2.3) | 1.7 (2.3) |
| | Kit # and rev/min range | #1 (490-740) | | #1 (590-890) | #1 (490-740) |
| | | #2 (665-920) | | #2 (800-1105) | #2 (665-920) |
| | | #3 (660-995) | | #3 (795-1195) | #3 (660-995) |
| | Nominal motor kW (HP) | | 2.2 (3) | 2.2 (3) | 2.2 (3) |
| | Maximum usable motor kW (HP) | | 2.6 (3.45) | 2.6 (3.45) | 2.6 (3.45) |
| | Kit # and rev/min range | #7 (610-810) | | #7 (730-970) | #7 (610-810) |
| | | #8 (780-1000) | | #8 (940-1200) | #8 (780-1000) |
| | | #9 (845-1085) | | #9 (1015-1300) | #9 (845-1085) |
| | Nominal motor kW (HP) | | 3.7 (5) | 3.7 (5) | 3.7 (5) |
| | Maximum usable motor kW (HP) | | 4.3 (5.75) | 4.3 (5.75) | 4.3 (5.75) |
| Kit # and rev/min range | #10 (750-945) | | #10 (900-1135) | #10 (750-945) | |
| | #11 (865-1095) | | #11 (1040-1315) | #11 (865-1095) | |
| | #12 (940-1190) | | #12 (1125-1425) | #12 (940-1190) | |
| Blower wheel nominal diameter x width - mm (in.) | | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | |
| Filters | Type of filter | | Disposable | | |
| | Number and size - mm (in.) | | (4) 508 x 508 x 51 (20 x 25 x 2) | | |
| Electrical characteristics | | | 380/420V - 50 hertz - 3 phase with neutral | | |

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

¹ Tested at conditions included in AHRI Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) dry bulb /19°C (67°F) wet bulb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

² Rated at 46°C (115°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air (T3 Conditions).

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

NOTE - Units equipped with MSAV® (Multi-Stage Air Volume) option are limited to a motor service factor of 1.0.

SPECIFICATIONS

| General Data | | Nominal kW (Tons) | 30 (8.5) | 30 (8.5) | 30 (8.5) |
|---|--|----------------------------|--|------------------------------------|----------------------------------|
| | | Model Number | KGB102S4B | KGB102S4M | KGA102H4B |
| | | Efficiency Type | Standard | Standard | High |
| | | Blower Type | CAV (Constant Air Volume) | MSAV® (Multi-Stage Air Volume) | CAV (Constant Air Volume) |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | | 25.5 (86 900) | 25.5 (86 900) | 26.8 (91 500) |
| | ¹ Net Cooling Capacity - kW (Btuh) | | 24.7 (84 300) | 24.7 (84 300) | 25.6 (87 500) |
| | AHRI Rated Air Flow - L/s (cfm) | | 1320 (2800) | 1320 (2800) | 1605 (3400) |
| | Total Unit Power - kW | | 7.5 | 7.5 | 7.3 |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | | 11.2 | 11.2 | 12.4 |
| | ² EER (Btuh/Watt) at 46°C (115°F) | | 7.5 | 7.5 | 8.5 |
| | ¹ IEER (Btuh/Watt) | | 12.7 | 13.6 | 12.9 |
| Refrigerant Type | | | R-410A | R-410A | R-410A |
| Refrigerant Charge | Environ™ Coil System | Circuit 1 | 2.0 kg (4 lbs. 5 oz.) | 2.0 kg (4 lbs. 5 oz.) | 2.96 kg (6 lbs. 8 oz.) |
| | | Circuit 2 | 1.9 kg (4 lbs. 3 oz.) | 1.9 kg (4 lbs. 3 oz.) | 3.07 kg (6 lbs. 12 oz.) |
| | Conventional Fin/Tube Coil | Circuit 1 | 4.2 kg (9 lbs. 3 oz.) | 4.2 kg (9 lbs. 3 oz.) | --- |
| | | Circuit 2 | 3.6 kg (7 lbs. 14 oz.) | 3.6 kg (7 lbs. 14 oz.) | --- |
| Gas Heating Options Available - See page 11 | | | Standard (2 stage), Medium (2 Stage), High (2 Stage) | | |
| Compressor Type (number) | | | Scroll (2) | Scroll (2) | Scroll (2) |
| Outdoor Coils (Fin/Tube) | Net face area (total) - m ² (sq. ft.) | | 1.9 (20.5) | 1.9 (20.5) | 2.6 (28.0) |
| | Number of rows | | 1(2) | 1 (2) | 1 |
| | Fins per m (inch) | | 906 (23) 787 (20) | 906 (23) 787 (20) | 787 (20) |
| Outdoor Coil Fans | Motor - (No.) W (HP) | | (2) 249 (1/3) | (2) 249 (1/3) | (2) 249 (1/3) |
| | Motor rev/min | | 896 | 896 | 896 |
| | Total Motor watts | | 564 | 564 | 611 |
| | Diameter - (No.) mm (in.) | | (2) 610 (24) | (2) 610 (24) | (2) 610 (24) |
| | Number of blades | | 3 | 3 | 3 |
| | Total Air volume - L/s (cfm) | | 3460 (7335) | 3460 (7335) | 3460 (7335) |
| Indoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.19 (12.8) | 1.19 (12.8) | 1.19 (12.8) |
| | Tube diameter - mm (in.) | | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) |
| | Number of rows | | 3 | 3 | 4 |
| | Fins per m (inch) | | 551 (14) | 551 (14) | 551 (14) |
| | Drain connection - Number and size | | (1) 1 in. NPT coupling | | |
| | Expansion device type | | Refrigerant Metering Orifice (RFC) | Refrigerant Metering Orifice (RFC) | Balance port TXV, removable head |
| ³ Indoor Blower and Drive Selection | Nominal motor kW (HP) | | 1.5 (2) | 1.5 (2) | 1.5 (2) |
| | Maximum usable motor kW (HP) | | 1.7 (2.3) | 1.7 (2.3) | 1.7 (2.3) |
| | Kit # and rev/min range | #1 (490-740) | | #1 (590-890) | #1 (490-740) |
| | | #2 (665-920) | | #2 (800-1105) | #2 (665-920) |
| | | #3 (660-995) | | #3 (795-1195) | #3 (660-995) |
| | Nominal motor kW (HP) | | 2.2 (3) | 2.2 (3) | 2.2 (3) |
| | Maximum usable motor kW (HP) | | 2.6 (3.45) | 2.6 (3.45) | 2.6 (3.45) |
| | Kit # and rev/min range | #7 (610-810) | | #7 (730-970) | #7 (610-810) |
| | | #8 (780-1000) | | #8 (940-1200) | #8 (780-1000) |
| | | #9 (845-1085) | | #9 (1015-1300) | #9 (845-1085) |
| | Nominal motor kW (HP) | | 3.7 (5) | 3.7 (5) | 3.7 (5) |
| | Maximum usable motor kW (HP) | | 4.3 (5.75) | 4.3 (5.75) | 4.3 (5.75) |
| | Kit # and rev/min range | #10 (750-945) | | #10 (900-1135) | #10 (750-945) |
| | | #11 (865-1095) | | #11 (1040-1315) | #11 (865-1095) |
| | | #12 (940-1190) | | #12 (1125-1425) | #12 (940-1190) |
| Blower wheel nominal diameter x width - mm (in.) | | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | |
| Filters | Type of filter | | Disposable | | |
| | Number and size - mm (in.) | | (4) 508 x 508 x 51 (20 x 25 x 2) | | |
| Electrical characteristics | | | 380/420V - 50 hertz - 3 phase with neutral | | |

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

¹ Tested at conditions included in AHRI Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) dry bulb /19°C (67°F) wet bulb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

² Rated at 46°C (115°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air (T3 Conditions).

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

NOTE – Units equipped with MSAV® (Multi-Stage Air Volume) option are limited to a motor service factor of 1.0.

SPECIFICATIONS

| General Data | | Nominal kW (Tons) | 35 (10) | 35 (10) | 35 (10) | |
|---|--|----------------------------|--|------------------------------------|----------------------------------|---------------|
| | | Model Number | KGB120S4B | KGB120S4M | KGA120H4B | |
| | | Efficiency Type | Standard | Standard | High | |
| | | Blower Type | CAV (Constant Air Volume) | MSAV® (Multi-Stage Air Volume) | CAV (Constant Air Volume) | |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | | 30.3 (103 500) | 30.3 (103 500) | 32.1 (109 700) | |
| | ¹ Net Cooling Capacity - kW (Btuh) | | 29.3 (100 000) | 29.3 (100 000) | 30.9 (105 600) | |
| | AHRI Rated Air Flow - L/s (cfm) | | 1416 (3000) | 1416 (3000) | 1700 (3600) | |
| | Total Unit Power - kW | | 9.0 | 9.0 | 8.9 | |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | | 11.1 | 11.1 | 12.2 | |
| | ² EER (Btuh/Watt) at 46°C (115°F) | | 8.2 | 8.2 | 8.6 | |
| | ¹ IEER (Btuh/Watt) | | 12.7 | 13.4 | 12.7 | |
| Refrigerant Type | | | R-410A | R-410A | R-410A | |
| Refrigerant Charge | Environ™ Coil System | Circuit 1 | 2.5 kg (5 lbs. 7 oz.) | 2.5 kg (5 lbs. 7 oz.) | 3.3 kg (7 lbs. 4 oz.) | |
| | | Circuit 2 | 2.6 kg (5 lbs. 12 oz.) | 2.6 kg (5 lbs. 12 oz.) | 3.4 kg (7 lbs. 8 oz.) | |
| | Conventional Fin/Tube Coil | Circuit 1 | 4.5 kg (9 lbs. 15 oz.) | 4.5 kg (9 lbs. 15 oz.) | - - - | |
| | | Circuit 2 | 4.1 kg (9 lbs. 1 oz.) | 4.1 kg (9 lbs. 1 oz.) | - - - | |
| Gas Heating Options Available - See page 11 | | | Standard (2 stage), Medium (2 Stage), High (2 Stage) | | | |
| Compressor Type (number) | | | Scroll (2) | Scroll (2) | Scroll (2) | |
| Outdoor Coils | Net face area (total) - m ² (sq. ft.) | | 2.6 (28.0) | 2.6 (28.0) | 2.6 (28.0) | |
| | Number of rows | | 1 (2) | 1 (2) | 1 | |
| Environ (Fin/Tube) | Fins per m (inch) | | 906 (23) 787 (20) | 906 (23) 787 (20) | 787 (20) | |
| Outdoor Coil Fans | Motor - (No.) W (HP) | | (2) 249 (1/3) | (2) 249 (1/3) | (2) 249 (1/3) | |
| | Motor rev/min | | 896 | 896 | 896 | |
| | Total Motor watts | | 527 | 527 | 611 | |
| | Diameter - (No.) mm (in.) | | (2) 610 (24) | (2) 610 (24) | (2) 610 (24) | |
| | Number of blades | | 3 | 3 | 3 | |
| | Total Air volume - L/s (cfm) | | 3660 (7750) | 3660 (7750) | 3460 (7335) | |
| Indoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.19 (12.8) | 1.19 (12.8) | 1.26 (13.5) | |
| | Tube diameter - mm (in.) | | 9.5 (3/8) | 9.5 (3/8) | 9.5 (3/8) | |
| | Number of rows | | 4 | 4 | 4 | |
| | Fins per m (inch) | | 551 (14) | 551 (14) | 551 (14) | |
| | Drain connection - Number and size | | (1) 1 in. NPT coupling | | | |
| | Expansion device type | | Refrigerant Metering Orifice (RFC) | Refrigerant Metering Orifice (RFC) | Balance port TXV, removable head | |
| ³ Indoor Blower and Drive Selection | Nominal motor kW (HP) | | 1.5 (2) | 1.5 (2) | 1.5 (2) | |
| | Maximum usable motor kW (HP) | | 1.7 (2.3) | 1.7 (2.3) | 1.7 (2.3) | |
| | Kit # and rev/min range | #1 (490-740) | | #1 (590-890) | #1 (590-890) | #1 (490-740) |
| | | #2 (665-920) | | #2 (800-1105) | #2 (800-1105) | #2 (665-920) |
| | | #3 (660-995) | | #3 (795-1195) | #3 (795-1195) | #3 (660-995) |
| | Nominal motor kW (HP) | | 2.2 (3) | 2.2 (3) | 2.2 (3) | |
| | Maximum usable motor kW (HP) | | 2.6 (3.45) | 2.6 (3.45) | 2.6 (3.45) | |
| | Kit # and rev/min range | #7 (610-810) | | #7 (730-970) | #7 (730-970) | #7 (610-810) |
| | | #8 (780-1000) | | #8 (940-1200) | #8 (940-1200) | #8 (780-1000) |
| | | #9 (845-1085) | | #9 (1015-1300) | #9 (1015-1300) | #9 (845-1085) |
| | Nominal motor kW (HP) | | 3.7 (5) | 3.7 (5) | 3.7 (5) | |
| | Maximum usable motor kW (HP) | | 4.3 (5.75) | 4.3 (5.75) | 4.3 (5.75) | |
| Kit # and rev/min range | #10 (750-945) | | #10 (900-1135) | #10 (900-1135) | #10 (750-945) | |
| | #11 (865-1095) | | #11 (1040-1315) | #11 (1040-1315) | #11 (865-1095) | |
| | #12 (940-1190) | | #12 (1125-1425) | #12 (1125-1425) | #12 (940-1190) | |
| Blower wheel nominal diameter x width - mm (in.) | | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | | |
| Filters | Type of filter | | Disposable | | | |
| | Number and size - mm (in.) | | (4) 508 x 508 x 51 (20 x 25 x 2) | | | |
| Electrical characteristics | | | 380/420V - 50 hertz - 3 phase with neutral | | | |

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

¹ Tested at conditions included in AHRI Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) dry bulb /19°C (67°F) wet bulb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

² Rated at 46°C (115°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air (T3 Conditions).

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

NOTE - Units equipped with MSAV® (Multi-Stage Air Volume) option are limited to a motor service factor of 1.0.

SPECIFICATIONS

| General Data | | Nominal kW (Tons) | 44 (12.5) | 44 (12.5) | |
|---|--|--|---|-----------------------------------|-------------|
| | | Model Number | KGB150S4B | KGB150S4M | |
| | | Efficiency Type | Standard | Standard | |
| | | Blower Type | CAV (Constant Air Volume) | MSAV® (Multi-Stage Air Volume) | |
| Cooling Performance | Gross Cooling Capacity - kW (Btuh) | | 38.1 (130 000) | 38.1 (130 000) | |
| | ¹ Net Cooling Capacity - kW (Btuh) | | 36.1 (123 300) | 36.1 (123 300) | |
| | AHRI Rated Air Flow - L/s (cfm) | | 1864 (3950) | 1864 (3950) | |
| | Total Unit Power - kW | | 11.0 | 11.0 | |
| | ¹ EER (Btuh/Watt) at 35°C (95°F) | | 11.2 | 11.2 | |
| | ² EER (Btuh/Watt) at 46°C (115°F) | | 7.7 | 7.7 | |
| | ¹ IEER (Btuh/Watt) | | 12.4 | 13.5 | |
| Refrigerant Type | | | R-410A | R-410A | |
| Refrigerant Charge | Conventional Fin/Tube | Circuit 1 | 6.35 kg (14 lbs. 0 oz.) | 6.35 kg (14 lbs. 0 oz.) | |
| | Coil | Circuit 2 | 6.12 kg (13 lbs. 8 oz.) | 6.12 kg (13 lbs. 8 oz.) | |
| Gas Heating Options Available - See page 11 | | | Standard (2 stage), Medium (2 Stage), High (2 Stage) | | |
| Compressor Type (number) | | | Scroll (2) | Scroll (2) | |
| Outdoor Coils | Net face area (total) - m ² (sq. ft.) | | 2.6 (28.0) | 2.6 (28.0) | |
| | Number of rows | | 3 | 3 | |
| | Fin/Tube | Fins per m (inch) | 787 (20) | 787 (20) | |
| Outdoor Coil Fans | Motor - (No.) W (HP) | | (2) 373 (1/2) | (2) 373 (1/2) | |
| | Motor rev/min | | 896 | 896 | |
| | Total Motor watts | | 802 | 802 | |
| | Diameter - (No.) mm (in.) | | (2) 610 (24) | (2) 610 (24) | |
| | Number of blades | | 3 | 3 | |
| | Total Air volume - L/s (cfm) | | 3815 (8085) | 3815 (8085) | |
| | Indoor Coils | Net face area (total) - m ² (sq. ft.) | | 1.26 (13.5) | 1.26 (13.5) |
| | | Tube diameter - mm (in.) | | 9.5 (3/8) | 9.5 (3/8) |
| Number of rows | | | 4 | 4 | |
| Fins per m (inch) | | | 551 (14) | 551 (14) | |
| Drain connection - Number and size | | | (1) 1 in. NPT coupling | | |
| | Expansion device type | | Balance port TXV, removable head | Balance port TXV, removable head | |
| ³ Indoor Blower and Drive Selection | Nominal motor kW (HP) | | 1.5 (2) | 1.5 (2) | |
| | Maximum usable motor kW (HP) | | 1.7 (2.3) | 1.7 (2.3) | |
| | Kit # and rev/min range | | #1 (490-740) | #1 (590-890) | |
| | | | #2 (665-920) | #2 (800-1105) | |
| | | | #3 (660-995) | #3 (795-1195) | |
| | Nominal motor kW (HP) | | 2.2 (3) | 2.2 (3) | |
| | Maximum usable motor kW (HP) | | 2.6 (3.45) | 2.6 (3.45) | |
| | Kit # and rev/min range | | #7 (610-810) | #7 (730-970) | |
| | | | #8 (780-1000) | #8 (940-1200) | |
| | | | #9 (845-1085) | #9 (1015-1300) | |
| | Nominal motor kW (HP) | | 3.7 (5) | 3.7 (5) | |
| | Maximum usable motor kW (HP) | | 4.3 (5.75) | 4.3 (5.75) | |
| | Kit # and rev/min range | | #10 (750-945) | #10 (900-1135) | |
| | | | #11 (865-1095) | #11 (1040-1315) | |
| | | | #12 (940-1190) | #12 (1125-1425) | |
| Blower wheel nominal diameter x width - mm (in.) | | | (1) 381 x 381 (15 X 15) | (1) 381 x 381 (15 X 15) | |
| Filters | Type of filter | | Disposable | | |
| | Number and size - mm (in.) | | (4) 508 x 508 x 51 (20 x 25 x 2) | | |
| Electrical characteristics | | | 380/420V - 50 hertz - 3 phase with neutral | | |

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

¹ Tested at conditions included in AHRI Standard 340/360; 35°C (95°F) outdoor air temperature and 27°C (80°F) dry bulb /19°C (67°F) wet bulb entering evaporator air; minimum external duct static pressure while operating at rated voltage and air volumes.

² Rated at 46°C (115°F) outdoor air temperature and 27°C (80°F) db/19°C (67°F) wb entering evaporator air (T3 Conditions).

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

NOTE – Units equipped with MSAV® (Multi-Stage Air Volume) option are limited to a motor service factor of 1.0.

SPECIFICATIONS - GAS HEAT

| | | Heat Input Type | Standard | Medium | High | |
|--|----------------------------------|---------------------------|----------------|------------------|-------------------|-------------------|
| | | Number of Gas Heat Stages | 2 | 2 | 2 | |
| Gas Heating Performance | Input - kW (Btuh) | First Stage | 24.8 (84 500) | 34.3 (117 000) | 45.7 (156 000) | |
| | | Second Stage | 33.4 (114 000) | 46.7 (159 500) | 61.5 (210 000) | |
| | Output - kW (Btuh) | | Second Stage | 26.7 (91 200) | 36.9 (126 000) | 49.2 (168 000) |
| | Temperature Rise Range - °C (°F) | | | 8 - 25 (15 - 45) | 17 - 33 (30 - 60) | 22 - 39 (40 - 70) |
| | | Thermal Efficiency | 81% | 81% | 81% | |
| Gas Supply Connections | | | 3/4 in. NPT | 3/4 in. NPT | 3/4 in. NPT | |
| Recommended Gas Supply Pressure - kPa (in. w.g.) | Natural | | 0.70 (2.8) | 0.70 (2.8) | 0.70 (2.8) | |
| | LPG/Propane | | 1.97 (7.9) | 1.97 (7.9) | 1.97 (7.9) | |

HIGH ALTITUDE DERATE

Units may be installed at altitudes up to 610 m (2000 feet) above sea level without any modification.

At altitudes above 610 m (2000 feet), units must be derated to match gas manifold pressures shown in table below.

At altitudes above 1372 m (4500 feet) unit must be derated 2% for each 305 m (1000 feet) above sea level.

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

| Gas Heat Type | Altitude m (Feet) | Gas Manifold Pressure kPa (in. w.g.) | | Input Rate - Btuh (Natural Gas or LPG/Propane) | |
|---------------|------------------------|--------------------------------------|-----------------|--|----------------|
| | | Natural Gas | LPG/Propane Gas | First Stage | Second Stage |
| Standard | 610 - 1372 (2001-4500) | 0.62 (2.5) | 1.82 (7.3) | 24.8 (84 500) | 31.7 (108 000) |
| Medium | 610 - 1372 (2001-4500) | 0.62 (2.5) | 1.82 (7.3) | 34.3 (117 000) | 43.7 (149 000) |
| High | 610 - 1372 (2001-4500) | 0.62 (2.5) | 1.82 (7.3) | 45.7 (156 000) | 58 (198 000) |

RATINGS

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

26 KW STANDARD EFFICIENCY - KGB092S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1135 | 16.6 | 2.27 | 0.68 | 0.81 | 0.95 | 15.9 | 2.53 | 0.69 | 0.83 | 0.97 | 15.1 | 2.83 | 0.70 | 0.84 | 0.99 | 14.2 | 3.19 | 0.71 | 0.87 | 1.00 |
| | 1415 | 17.5 | 2.29 | 0.72 | 0.87 | 1.00 | 16.7 | 2.55 | 0.73 | 0.89 | 1.00 | 15.9 | 2.85 | 0.74 | 0.91 | 1.00 | 14.9 | 3.21 | 0.76 | 0.94 | 1.00 |
| | 1700 | 18.2 | 2.30 | 0.76 | 0.93 | 1.00 | 17.4 | 2.56 | 0.77 | 0.95 | 1.00 | 16.5 | 2.86 | 0.78 | 0.98 | 1.00 | 15.5 | 3.22 | 0.80 | 1.00 | 1.00 |
| 19.4°C | 1135 | 17.4 | 2.28 | 0.55 | 0.66 | 0.78 | 16.6 | 2.55 | 0.55 | 0.67 | 0.79 | 15.8 | 2.85 | 0.55 | 0.68 | 0.81 | 14.9 | 3.20 | 0.56 | 0.69 | 0.83 |
| | 1415 | 18.4 | 2.30 | 0.57 | 0.70 | 0.84 | 17.5 | 2.56 | 0.57 | 0.71 | 0.86 | 16.6 | 2.87 | 0.58 | 0.72 | 0.88 | 15.6 | 3.22 | 0.58 | 0.73 | 0.90 |
| | 1700 | 19.0 | 2.32 | 0.59 | 0.74 | 0.90 | 18.1 | 2.58 | 0.59 | 0.75 | 0.92 | 17.1 | 2.88 | 0.60 | 0.76 | 0.94 | 16.1 | 3.23 | 0.61 | 0.78 | 0.97 |
| 21.7°C | 1135 | 18.2 | 2.30 | 0.42 | 0.53 | 0.64 | 17.4 | 2.56 | 0.42 | 0.54 | 0.65 | 16.5 | 2.86 | 0.42 | 0.54 | 0.66 | 15.6 | 3.22 | 0.42 | 0.55 | 0.67 |
| | 1415 | 19.2 | 2.32 | 0.43 | 0.56 | 0.68 | 18.3 | 2.58 | 0.43 | 0.56 | 0.69 | 17.3 | 2.88 | 0.42 | 0.57 | 0.70 | 16.3 | 3.23 | 0.42 | 0.57 | 0.72 |
| | 1700 | 19.9 | 2.34 | 0.45 | 0.58 | 0.71 | 19.0 | 2.59 | 0.44 | 0.59 | 0.73 | 17.9 | 2.89 | 0.45 | 0.59 | 0.74 | 16.8 | 3.25 | 0.45 | 0.60 | 0.76 |

26 KW STANDARD EFFICIENCY - KGB092S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1135 | 23.0 | 4.47 | 0.71 | 0.86 | 0.99 | 20.8 | 5.36 | 0.73 | 0.90 | 1.00 | 18.4 | 6.46 | 0.76 | 0.95 | 1.00 | 17.7 | 6.87 | .80 | .98 | 1.00 |
| | 1415 | 24.2 | 4.50 | 0.76 | 0.94 | 1.00 | 21.9 | 5.39 | 0.79 | 0.98 | 1.00 | 19.5 | 6.50 | 0.83 | 1.00 | 1.00 | 18.8 | 6.91 | .88 | 1.00 | 1.00 |
| | 1700 | 25.1 | 4.51 | 0.81 | 0.99 | 1.00 | 22.8 | 5.41 | 0.85 | 1.00 | 1.00 | 20.5 | 6.53 | 0.91 | 1.00 | 1.00 | 19.8 | 6.94 | .95 | 1.00 | 1.00 |
| 19.4°C | 1135 | 24.3 | 4.50 | 0.56 | 0.69 | 0.82 | 22.0 | 5.39 | 0.57 | 0.71 | 0.86 | 19.6 | 6.50 | 0.57 | 0.74 | 0.91 | 18.8 | 6.91 | .60 | .80 | .92 |
| | 1415 | 25.6 | 4.52 | 0.59 | 0.74 | 0.90 | 23.2 | 5.42 | 0.60 | 0.76 | 0.95 | 20.5 | 6.53 | 0.62 | 0.81 | 0.99 | 19.6 | 6.94 | .65 | .87 | .99 |
| | 1700 | 26.5 | 4.54 | 0.62 | 0.79 | 0.97 | 24.0 | 5.44 | 0.63 | 0.82 | 1.00 | 21.1 | 6.55 | 0.65 | 0.88 | 1.00 | 20.2 | 6.96 | .70 | .95 | 1.00 |
| 21.7°C | 1135 | 25.5 | 4.52 | 0.42 | 0.55 | 0.67 | 23.2 | 5.42 | 0.41 | 0.56 | 0.69 | 20.7 | 6.54 | 0.40 | 0.57 | 0.71 | 19.9 | 6.95 | .42 | .60 | .72 |
| | 1415 | 26.8 | 4.54 | 0.43 | 0.58 | 0.72 | 24.4 | 5.45 | 0.43 | 0.59 | 0.74 | 21.7 | 6.57 | 0.43 | 0.61 | 0.78 | 20.8 | 6.98 | .44 | .65 | .79 |
| | 1700 | 27.8 | 4.56 | 0.44 | 0.61 | 0.76 | 25.3 | 5.47 | 0.44 | 0.63 | 0.80 | 22.4 | 6.60 | 0.45 | 0.65 | 0.86 | 21.5 | 7.01 | .47 | .70 | .85 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1135 | 17.0 | 7.19 | 0.78 | 0.98 | 1.00 | 16.4 | 7.53 | 0.80 | 0.99 | 1.00 | 15.9 | 7.84 | 0.81 | 1.00 | 1.00 | | | |
| | 1415 | 18.1 | 7.23 | 0.87 | 1.00 | 1.00 | 17.5 | 7.58 | 0.88 | 1.00 | 1.00 | 17.0 | 7.88 | 0.90 | 1.00 | 1.00 | | | |
| | 1700 | 19.0 | 7.27 | 0.94 | 1.00 | 1.00 | 18.3 | 7.61 | 0.96 | 1.00 | 1.00 | 17.8 | 7.92 | 0.97 | 1.00 | 1.00 | | | |
| 19.4°C | 1135 | 18.1 | 7.23 | 0.58 | 0.76 | 0.95 | 17.4 | 7.58 | 0.59 | 0.77 | 0.97 | 16.8 | 7.88 | 0.59 | 0.78 | 0.98 | | | |
| | 1415 | 18.9 | 7.26 | 0.63 | 0.84 | 1.00 | 18.1 | 7.60 | 0.64 | 0.86 | 1.00 | 17.5 | 7.91 | 0.64 | 0.88 | 1.00 | | | |
| | 1700 | 19.4 | 7.29 | 0.67 | 0.92 | 1.00 | 18.7 | 7.63 | 0.68 | 0.94 | 1.00 | 18.0 | 7.94 | 0.69 | 0.96 | 1.00 | | | |
| 21.7°C | 1135 | 19.1 | 7.27 | 0.40 | 0.58 | 0.74 | 18.4 | 7.61 | 0.40 | 0.58 | 0.75 | 17.8 | 7.92 | 0.40 | 0.59 | 0.76 | | | |
| | 1415 | 20.0 | 7.31 | 0.43 | 0.62 | 0.82 | 19.3 | 7.65 | 0.43 | 0.63 | 0.83 | 18.6 | 7.96 | 0.43 | 0.64 | 0.85 | | | |
| | 1700 | 20.6 | 7.33 | 0.45 | 0.67 | 0.90 | 19.8 | 7.68 | 0.45 | 0.68 | 0.92 | 19.2 | 7.99 | 0.46 | 0.69 | 0.94 | | | |

RATINGS

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

26 KW HIGH EFFICIENCY - KGA092H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1135 | 12.4 | 1.62 | 0.7 | 0.85 | 1 | 11.9 | 1.83 | 0.71 | 0.87 | 1 | 11.3 | 2.06 | 0.72 | 0.89 | 1 | 10.6 | 2.33 | 0.74 | 0.93 | 1 |
| | 1415 | 13 | 1.62 | 0.76 | 0.95 | 1 | 12.5 | 1.83 | 0.77 | 0.98 | 1 | 11.8 | 2.07 | 0.78 | 1 | 1 | 11.2 | 2.33 | 0.81 | 1 | 1 |
| | 1700 | 13.6 | 1.63 | 0.81 | 1 | 1 | 13 | 1.84 | 0.84 | 1 | 1 | 12.5 | 2.07 | 0.86 | 1 | 1 | 11.8 | 2.33 | 0.9 | 1 | 1 |
| 19.4°C | 1135 | 13.2 | 1.62 | 0.55 | 0.68 | 0.81 | 12.6 | 1.83 | 0.56 | 0.69 | 0.83 | 12 | 2.07 | 0.56 | 0.7 | 0.85 | 11.3 | 2.33 | 0.56 | 0.72 | 0.89 |
| | 1415 | 13.8 | 1.63 | 0.59 | 0.74 | 0.91 | 13.2 | 1.84 | 0.6 | 0.75 | 0.94 | 12.5 | 2.07 | 0.6 | 0.76 | 0.97 | 11.8 | 2.33 | 0.61 | 0.78 | 1 |
| | 1700 | 14.2 | 1.63 | 0.61 | 0.79 | 1 | 13.6 | 1.84 | 0.63 | 0.81 | 1 | 12.9 | 2.07 | 0.63 | 0.84 | 1 | 12.1 | 2.33 | 0.65 | 0.87 | 1 |
| 21.7°C | 1135 | 13.9 | 1.63 | 0.41 | 0.53 | 0.66 | 13.3 | 1.84 | 0.42 | 0.53 | 0.67 | 12.7 | 2.07 | 0.42 | 0.55 | 0.68 | 12 | 2.33 | 0.42 | 0.56 | 0.7 |
| | 1415 | 14.5 | 1.63 | 0.43 | 0.57 | 0.72 | 13.9 | 1.84 | 0.44 | 0.59 | 0.73 | 13.2 | 2.07 | 0.44 | 0.59 | 0.74 | 12.5 | 2.33 | 0.43 | 0.6 | 0.76 |
| | 1700 | 15 | 1.64 | 0.45 | 0.61 | 0.77 | 14.3 | 1.85 | 0.44 | 0.62 | 0.79 | 13.5 | 2.08 | 0.45 | 0.63 | 0.82 | 12.8 | 2.34 | 0.45 | 0.64 | 0.84 |

26 KW HIGH EFFICIENCY - KGA092H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1135 | 23.2 | 3.89 | 0.72 | 0.88 | 1 | 21.3 | 4.66 | 0.74 | 0.93 | 1 | 19.3 | 5.61 | 0.76 | 0.98 | 1 | 18.8 | 5.97 | .82 | 1.00 | 1.00 |
| | 1415 | 24.3 | 3.89 | 0.78 | 0.99 | 1 | 22.5 | 4.66 | 0.81 | 1 | 1 | 20.6 | 5.62 | 0.86 | 1 | 1 | 20.1 | 5.96 | .91 | 1.00 | 1.00 |
| | 1700 | 25.5 | 3.9 | 0.85 | 1 | 1 | 23.7 | 4.67 | 0.9 | 1 | 1 | 21.6 | 5.62 | 0.96 | 1 | 1 | 21.1 | 5.96 | .99 | 1.00 | 1.00 |
| 19.4°C | 1135 | 24.6 | 3.9 | 0.55 | 0.69 | 0.84 | 22.6 | 4.66 | 0.57 | 0.72 | 0.89 | 20.5 | 5.61 | 0.58 | 0.74 | 0.94 | 19.8 | 5.96 | .61 | .81 | .94 |
| | 1415 | 25.7 | 3.9 | 0.6 | 0.76 | 0.95 | 23.6 | 4.67 | 0.61 | 0.78 | 0.99 | 21.3 | 5.62 | 0.62 | 0.83 | 1 | 20.6 | 5.96 | .67 | .90 | 1.00 |
| | 1700 | 26.4 | 3.91 | 0.63 | 0.83 | 1 | 24.3 | 4.67 | 0.65 | 0.87 | 1 | 22 | 5.62 | 0.68 | 0.94 | 1 | 21.2 | 5.97 | .73 | .99 | 1.00 |
| 21.7°C | 1135 | 26 | 3.91 | 0.41 | 0.53 | 0.67 | 24 | 4.67 | 0.42 | 0.56 | 0.7 | 21.8 | 5.62 | 0.42 | 0.57 | 0.72 | 21.0 | 5.96 | .43 | .61 | .73 |
| | 1415 | 27.1 | 3.91 | 0.43 | 0.59 | 0.74 | 24.9 | 4.67 | 0.43 | 0.6 | 0.76 | 22.6 | 5.62 | 0.44 | 0.62 | 0.8 | 21.9 | 5.96 | .45 | .67 | .82 |
| | 1700 | 27.9 | 3.92 | 0.45 | 0.62 | 0.8 | 25.6 | 4.68 | 0.45 | 0.64 | 0.84 | 23.2 | 5.62 | 0.46 | 0.68 | 0.91 | 22.4 | 5.96 | .48 | .74 | .91 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1135 | 18.2 | 6.25 | 0.78 | 1 | 1 | 17.7 | 6.55 | 0.80 | 1 | 1 | 17.3 | 6.81 | 0.81 | 1 | 1 | | | |
| | 1415 | 19.5 | 6.25 | 0.90 | 1 | 1 | 18.9 | 6.54 | 0.92 | 1 | 1 | 18.4 | 6.8 | 0.94 | 1 | 1 | | | |
| | 1700 | 20.4 | 6.25 | 0.99 | 1 | 1 | 19.8 | 6.54 | 1.00 | 1 | 1 | 19.4 | 6.8 | 1 | 1 | 1 | | | |
| 19.4°C | 1135 | 19.2 | 6.25 | 0.59 | 0.76 | 0.98 | 18.7 | 6.55 | 0.59 | 0.77 | 0.99 | 18.2 | 6.81 | 0.6 | 0.79 | 1 | | | |
| | 1415 | 20.0 | 6.25 | 0.64 | 0.87 | 1 | 19.4 | 6.54 | 0.65 | 0.89 | 1 | 18.9 | 6.8 | 0.66 | 0.91 | 1 | | | |
| | 1700 | 20.5 | 6.25 | 0.70 | 0.98 | 1 | 19.9 | 6.54 | 0.71 | 0.99 | 1 | 19.4 | 6.8 | 0.71 | 1 | 1 | | | |
| 21.7°C | 1135 | 20.4 | 6.25 | 0.42 | 0.58 | 0.74 | 19.8 | 6.54 | 0.42 | 0.58 | 0.75 | 19.3 | 6.8 | 0.42 | 0.59 | 0.76 | | | |
| | 1415 | 21.2 | 6.24 | 0.44 | 0.63 | 0.84 | 20.6 | 6.54 | 0.44 | 0.65 | 0.86 | 20 | 6.79 | 0.45 | 0.66 | 0.88 | | | |
| | 1700 | 21.7 | 6.24 | 0.47 | 0.69 | 0.95 | 21.1 | 6.54 | 0.47 | 0.70 | 0.97 | 20.5 | 6.79 | 0.47 | 0.71 | 0.99 | | | |

RATINGS

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

30 KW STANDARD EFFICIENCY - KGB102S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 14.9 | 2.05 | 0.66 | 0.81 | 0.98 | 14.0 | 2.28 | 0.66 | 0.82 | 1.00 | 12.9 | 2.55 | 0.66 | 0.85 | 1.00 | 11.8 | 2.86 | 0.67 | 0.88 | 1.00 |
| | 1605 | 15.9 | 2.05 | 0.70 | 0.90 | 1.00 | 14.8 | 2.29 | 0.71 | 0.92 | 1.00 | 13.7 | 2.56 | 0.72 | 0.95 | 1.00 | 12.5 | 2.87 | 0.73 | 0.98 | 1.00 |
| | 1925 | 16.5 | 2.06 | 0.75 | 0.97 | 1.00 | 15.4 | 2.29 | 0.77 | 1.00 | 1.00 | 14.3 | 2.57 | 0.79 | 1.00 | 1.00 | 13.2 | 2.88 | 0.81 | 1.00 | 1.00 |
| 19.4°C | 1285 | 15.9 | 2.05 | 0.52 | 0.64 | 0.77 | 14.9 | 2.29 | 0.51 | 0.64 | 0.78 | 13.8 | 2.56 | 0.51 | 0.64 | 0.80 | 12.7 | 2.87 | 0.50 | 0.65 | 0.83 |
| | 1605 | 16.9 | 2.05 | 0.55 | 0.68 | 0.85 | 15.8 | 2.29 | 0.55 | 0.69 | 0.87 | 14.6 | 2.56 | 0.54 | 0.70 | 0.91 | 13.4 | 2.88 | 0.54 | 0.71 | 0.94 |
| | 1925 | 17.6 | 2.06 | 0.57 | 0.73 | 0.94 | 16.4 | 2.30 | 0.57 | 0.74 | 0.96 | 15.2 | 2.57 | 0.58 | 0.76 | 0.99 | 14.0 | 2.89 | 0.58 | 0.79 | 1.00 |
| 21.7°C | 1285 | 16.8 | 2.06 | 0.40 | 0.51 | 0.62 | 15.8 | 2.29 | 0.39 | 0.51 | 0.62 | 14.7 | 2.57 | 0.37 | 0.50 | 0.63 | 13.5 | 2.88 | 0.36 | 0.50 | 0.63 |
| | 1605 | 17.8 | 2.06 | 0.41 | 0.54 | 0.66 | 16.7 | 2.30 | 0.40 | 0.54 | 0.67 | 15.5 | 2.57 | 0.39 | 0.54 | 0.68 | 14.3 | 2.89 | 0.38 | 0.54 | 0.69 |
| | 1925 | 18.6 | 2.07 | 0.43 | 0.57 | 0.71 | 17.4 | 2.31 | 0.42 | 0.57 | 0.72 | 16.1 | 2.58 | 0.41 | 0.57 | 0.74 | 14.8 | 2.90 | 0.40 | 0.58 | 0.76 |

30 KW STANDARD EFFICIENCY - KGB102S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 25.6 | 5.07 | 0.70 | 0.86 | 1.00 | 22.4 | 6.02 | 0.71 | 0.89 | 1.00 | 19.0 | 7.26 | 0.73 | 0.95 | 1.00 | 17.9 | 7.72 | .76 | .99 | 1.00 |
| | 1605 | 27.1 | 5.08 | 0.76 | 0.94 | 1.00 | 23.7 | 6.04 | 0.77 | 0.98 | 1.00 | 20.3 | 7.26 | 0.81 | 1.00 | 1.00 | 19.5 | 7.72 | .85 | 1.00 | 1.00 |
| | 1925 | 28.3 | 5.09 | 0.81 | 1.00 | 1.00 | 25.0 | 6.04 | 0.84 | 1.00 | 1.00 | 21.7 | 7.27 | 0.89 | 1.00 | 1.00 | 20.7 | 7.73 | .93 | 1.00 | 1.00 |
| 19.4°C | 1285 | 27.3 | 5.08 | 0.54 | 0.68 | 0.83 | 24.1 | 6.03 | 0.53 | 0.69 | 0.85 | 20.6 | 7.26 | 0.52 | 0.71 | 0.90 | 19.4 | 7.73 | .54 | .76 | .90 |
| | 1605 | 28.9 | 5.08 | 0.58 | 0.74 | 0.91 | 25.5 | 6.05 | 0.58 | 0.75 | 0.95 | 21.8 | 7.28 | 0.57 | 0.78 | 0.99 | 20.5 | 7.73 | .60 | .85 | .99 |
| | 1925 | 30.1 | 5.10 | 0.61 | 0.79 | 0.98 | 26.5 | 6.06 | 0.61 | 0.82 | 1.00 | 22.6 | 7.28 | 0.62 | 0.86 | 1.00 | 21.3 | 7.73 | .65 | .93 | 1.00 |
| 21.7°C | 1285 | 29.0 | 5.09 | 0.40 | 0.54 | 0.67 | 25.6 | 6.05 | 0.37 | 0.53 | 0.67 | 22.0 | 7.26 | 0.34 | 0.52 | 0.69 | 21.0 | 7.73 | .34 | .55 | .68 |
| | 1605 | 30.6 | 5.11 | 0.42 | 0.57 | 0.72 | 27.1 | 6.07 | 0.40 | 0.57 | 0.74 | 23.3 | 7.29 | 0.37 | 0.57 | 0.76 | 22.2 | 7.74 | .37 | .61 | .76 |
| | 1925 | 31.8 | 5.11 | 0.43 | 0.61 | 0.77 | 28.1 | 6.08 | 0.42 | 0.61 | 0.80 | 24.2 | 7.30 | 0.39 | 0.62 | 0.84 | 23.0 | 7.74 | .40 | .66 | .83 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1285 | 17.0 | 8.09 | 0.74 | 0.98 | 1.00 | 16.1 | 8.50 | 0.75 | 0.99 | 1.00 | 15.3 | 8.86 | 0.75 | 1.00 | 1.00 | | | |
| | 1605 | 18.4 | 8.10 | 0.83 | 1.00 | 1.00 | 17.6 | 8.51 | 0.85 | 1.00 | 1.00 | 16.9 | 8.89 | 0.87 | 1.00 | 1.00 | | | |
| | 1925 | 19.7 | 8.12 | 0.93 | 1.00 | 1.00 | 18.8 | 8.52 | 0.95 | 1.00 | 1.00 | 18.0 | 8.88 | 0.96 | 1.00 | 1.00 | | | |
| 19.4°C | 1285 | 18.5 | 8.10 | 0.52 | 0.72 | 0.94 | 17.6 | 8.51 | 0.51 | 0.73 | 0.96 | 16.7 | 8.88 | 0.51 | 0.74 | 0.97 | | | |
| | 1605 | 19.5 | 8.10 | 0.57 | 0.81 | 1.00 | 18.6 | 8.51 | 0.57 | 0.83 | 1.00 | 17.7 | 8.87 | 0.57 | 0.84 | 1.00 | | | |
| | 1925 | 20.3 | 8.10 | 0.62 | 0.90 | 1.00 | 19.3 | 8.52 | 0.63 | 0.92 | 1.00 | 18.4 | 8.88 | 0.63 | 0.94 | 1.00 | | | |
| 21.7°C | 1285 | 19.9 | 8.11 | 0.32 | 0.52 | 0.70 | 19.0 | 8.52 | 0.30 | 0.52 | 0.71 | 18.1 | 8.89 | 0.30 | 0.52 | 0.72 | | | |
| | 1605 | 21.0 | 8.12 | 0.35 | 0.58 | 0.79 | 20.0 | 8.53 | 0.34 | 0.58 | 0.80 | 19.2 | 8.89 | 0.34 | 0.58 | 0.82 | | | |
| | 1925 | 21.9 | 8.13 | 0.38 | 0.63 | 0.88 | 20.8 | 8.52 | 0.38 | 0.63 | 0.90 | 19.9 | 8.89 | 0.37 | 0.64 | 0.91 | | | |

RATINGS

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

30 KW HIGH EFFICIENCY - KGA102H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 13.8 | 1.79 | 0.64 | 0.82 | 1 | 13 | 2.03 | 0.65 | 0.85 | 1 | 12.2 | 2.29 | 0.66 | 0.89 | 1 | 11.3 | 2.59 | 0.67 | 0.93 | 1 |
| | 1605 | 14.5 | 1.8 | 0.7 | 0.97 | 1 | 13.7 | 2.04 | 0.71 | 0.99 | 1 | 12.9 | 2.3 | 0.72 | 1 | 1 | 12.1 | 2.6 | 0.76 | 1 | 1 |
| | 1925 | 15.2 | 1.81 | 0.77 | 1 | 1 | 14.4 | 2.04 | 0.79 | 1 | 1 | 13.6 | 2.3 | 0.83 | 1 | 1 | 12.8 | 2.6 | 0.88 | 1 | 1 |
| 19.4°C | 1285 | 14.7 | 1.8 | 0.5 | 0.63 | 0.77 | 13.9 | 2.04 | 0.5 | 0.63 | 0.79 | 13.1 | 2.3 | 0.51 | 0.65 | 0.83 | 12.1 | 2.6 | 0.51 | 0.66 | 0.87 |
| | 1605 | 15.4 | 1.81 | 0.54 | 0.68 | 0.91 | 14.5 | 2.04 | 0.54 | 0.69 | 0.95 | 13.6 | 2.3 | 0.54 | 0.7 | 0.98 | 12.7 | 2.6 | 0.55 | 0.72 | 1 |
| | 1925 | 15.9 | 1.81 | 0.56 | 0.74 | 1 | 15 | 2.05 | 0.57 | 0.77 | 1 | 14.1 | 2.31 | 0.57 | 0.8 | 1 | 13.1 | 2.6 | 0.59 | 0.86 | 1 |
| 21.7°C | 1285 | 15.6 | 1.81 | 0.38 | 0.49 | 0.61 | 14.7 | 2.04 | 0.37 | 0.49 | 0.61 | 13.9 | 2.3 | 0.37 | 0.5 | 0.63 | 13 | 2.6 | 0.37 | 0.5 | 0.64 |
| | 1605 | 16.3 | 1.82 | 0.4 | 0.53 | 0.66 | 15.4 | 2.05 | 0.39 | 0.54 | 0.68 | 14.5 | 2.31 | 0.38 | 0.54 | 0.68 | 13.5 | 2.6 | 0.38 | 0.55 | 0.71 |
| | 1925 | 16.8 | 1.82 | 0.41 | 0.56 | 0.71 | 15.9 | 2.05 | 0.41 | 0.57 | 0.74 | 14.9 | 2.31 | 0.4 | 0.58 | 0.76 | 13.9 | 2.61 | 0.4 | 0.58 | 0.82 |

30 KW HIGH EFFICIENCY - KGA102H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 26.1 | 4.32 | 0.73 | 0.91 | 1 | 23.5 | 5.19 | 0.75 | 0.95 | 1 | 20.7 | 6.27 | 0.77 | 1 | 1 | 20.4 | 6.89 | .81 | 1.00 | 1.00 |
| | 1605 | 27.5 | 4.33 | 0.79 | 1 | 1 | 25.1 | 5.2 | 0.83 | 1 | 1 | 22.4 | 6.27 | 0.88 | 1 | 1 | 22.1 | 6.86 | .92 | 1.00 | 1.00 |
| | 1925 | 29 | 4.34 | 0.87 | 1 | 1 | 26.4 | 5.2 | 0.92 | 1 | 1 | 23.7 | 6.28 | 0.98 | 1 | 1 | 23.4 | 6.83 | 1.00 | 1.00 | 1.00 |
| 19.4°C | 1285 | 27.9 | 4.33 | 0.57 | 0.71 | 0.87 | 25.2 | 5.2 | 0.57 | 0.73 | 0.91 | 22.2 | 6.27 | 0.57 | 0.75 | 0.96 | 21.7 | 6.87 | .59 | .81 | .95 |
| | 1605 | 29.1 | 4.34 | 0.61 | 0.78 | 0.98 | 26.3 | 5.2 | 0.61 | 0.8 | 1 | 23.2 | 6.27 | 0.62 | 0.85 | 1 | 22.7 | 6.84 | .65 | .91 | 1.00 |
| | 1925 | 30 | 4.35 | 0.64 | 0.85 | 1 | 27.1 | 5.21 | 0.66 | 0.9 | 1 | 24 | 6.28 | 0.68 | 0.96 | 1 | 23.4 | 6.82 | .72 | 1.00 | 1.00 |
| 21.7°C | 1285 | 29.6 | 4.34 | 0.41 | 0.56 | 0.69 | 26.8 | 5.21 | 0.41 | 0.56 | 0.71 | 23.8 | 6.27 | 0.39 | 0.56 | 0.73 | 23.4 | 6.83 | .40 | .59 | .73 |
| | 1605 | 30.9 | 4.35 | 0.43 | 0.6 | 0.76 | 28 | 5.21 | 0.42 | 0.61 | 0.79 | 24.8 | 6.27 | 0.42 | 0.62 | 0.82 | 24.4 | 6.81 | .43 | .66 | .82 |
| | 1925 | 31.9 | 4.36 | 0.45 | 0.64 | 0.83 | 28.8 | 5.22 | 0.45 | 0.65 | 0.87 | 25.6 | 6.28 | 0.45 | 0.68 | 0.94 | 25.1 | 6.80 | .46 | .73 | .91 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1285 | 19.5 | 7.25 | 0.79 | 1 | 1 | 18.8 | 7.65 | 0.80 | 1 | 1 | 18.1 | 7.63 | 0.82 | 1 | 1 | | | |
| | 1605 | 21.2 | 7.20 | 0.91 | 1 | 1 | 20.5 | 7.58 | 0.93 | 1 | 1 | 19.5 | 7.61 | 0.96 | 1 | 1 | | | |
| | 1925 | 22.5 | 7.18 | 1 | 1 | 1 | 21.7 | 7.55 | 1.00 | 1 | 1 | 20.7 | 7.62 | 1 | 1 | 1 | | | |
| 19.4°C | 1285 | 20.9 | 7.23 | 0.57 | 0.76 | 0.99 | 20.1 | 7.61 | 0.57 | 0.78 | 1.00 | 19.1 | 7.62 | 0.58 | 0.8 | 1 | | | |
| | 1605 | 21.9 | 7.19 | 0.63 | 0.88 | 1.00 | 21.1 | 7.58 | 0.64 | 0.90 | 1.00 | 20 | 7.62 | 0.65 | 0.93 | 1 | | | |
| | 1925 | 22.6 | 7.18 | 0.69 | 0.98 | 1.00 | 21.7 | 7.53 | 0.70 | 1.00 | 1.00 | 20.6 | 7.61 | 0.71 | 1 | 1 | | | |
| 21.7°C | 1285 | 22.5 | 7.18 | 0.38 | 0.56 | 0.74 | 21.7 | 7.56 | 0.37 | 0.57 | 0.75 | 20.5 | 7.61 | 0.38 | 0.58 | 0.78 | | | |
| | 1605 | 23.5 | 7.16 | 0.41 | 0.62 | 0.85 | 22.7 | 7.51 | 0.40 | 0.63 | 0.87 | 21.5 | 7.61 | 0.41 | 0.65 | 0.9 | | | |
| | 1925 | 24.2 | 7.16 | 0.44 | 0.69 | 0.96 | 23.4 | 7.52 | 0.44 | 0.70 | 0.98 | 22 | 7.61 | 0.44 | 0.72 | 1 | | | |

RATINGS

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

35 KW STANDARD EFFICIENCY - KGB120S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 16.1 | 2.32 | 0.69 | 0.85 | 1.00 | 15.0 | 2.63 | 0.69 | 0.86 | 1.00 | 13.7 | 2.98 | 0.70 | 0.88 | 1.00 | 12.4 | 3.37 | 0.71 | 0.91 | 1.00 |
| | 1890 | 17.1 | 2.32 | 0.75 | 0.93 | 1.00 | 15.9 | 2.64 | 0.75 | 0.96 | 1.00 | 14.6 | 3.00 | 0.76 | 0.98 | 1.00 | 13.3 | 3.39 | 0.78 | 1.00 | 1.00 |
| | 2265 | 17.9 | 2.33 | 0.80 | 1.00 | 1.00 | 16.7 | 2.65 | 0.81 | 1.00 | 1.00 | 15.4 | 3.01 | 0.83 | 1.00 | 1.00 | 14.2 | 3.41 | 0.86 | 1.00 | 1.00 |
| 19.4°C | 1510 | 17.3 | 2.32 | 0.55 | 0.67 | 0.81 | 16.1 | 2.64 | 0.54 | 0.67 | 0.82 | 14.8 | 3.00 | 0.53 | 0.68 | 0.84 | 13.5 | 3.40 | 0.52 | 0.69 | 0.87 |
| | 1890 | 18.3 | 2.34 | 0.57 | 0.72 | 0.90 | 17.0 | 2.65 | 0.57 | 0.74 | 0.92 | 15.6 | 3.02 | 0.57 | 0.74 | 0.94 | 14.3 | 3.41 | 0.57 | 0.76 | 0.98 |
| | 2265 | 19.0 | 2.34 | 0.61 | 0.78 | 0.97 | 17.6 | 2.66 | 0.61 | 0.79 | 0.99 | 16.3 | 3.03 | 0.60 | 0.81 | 1.00 | 14.8 | 3.43 | 0.61 | 0.83 | 1.00 |
| 21.7°C | 1510 | 18.6 | 2.34 | 0.41 | 0.54 | 0.65 | 17.3 | 2.66 | 0.40 | 0.53 | 0.66 | 15.9 | 3.02 | 0.38 | 0.52 | 0.66 | 14.6 | 3.42 | 0.36 | 0.52 | 0.67 |
| | 1890 | 19.5 | 2.35 | 0.42 | 0.57 | 0.70 | 18.1 | 2.67 | 0.42 | 0.57 | 0.72 | 16.8 | 3.04 | 0.40 | 0.57 | 0.73 | 15.3 | 3.44 | 0.39 | 0.57 | 0.74 |
| | 2265 | 20.2 | 2.35 | 0.45 | 0.61 | 0.76 | 18.8 | 2.68 | 0.44 | 0.61 | 0.77 | 17.3 | 3.05 | 0.42 | 0.60 | 0.79 | 15.8 | 3.45 | 0.40 | 0.61 | 0.81 |

35 KW STANDARD EFFICIENCY - KGB120S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 30.4 | 5.70 | 0.71 | 0.88 | 1.00 | 26.4 | 6.86 | 0.72 | 0.92 | 1.00 | 22.2 | 8.23 | 0.74 | 0.98 | 1.00 | 21.0 | 8.73 | .78 | 1.00 | 1.00 |
| | 1890 | 32.3 | 5.72 | 0.78 | 0.98 | 1.00 | 28.3 | 6.90 | 0.80 | 1.00 | 1.00 | 24.2 | 8.29 | 0.84 | 1.00 | 1.00 | 23.2 | 8.79 | .88 | 1.00 | 1.00 |
| | 2265 | 34.1 | 5.75 | 0.84 | 1.00 | 1.00 | 30.1 | 6.94 | 0.88 | 1.00 | 1.00 | 25.9 | 8.34 | 0.93 | 1.00 | 1.00 | 24.8 | 8.85 | .97 | 1.00 | 1.00 |
| 19.4°C | 1510 | 32.9 | 5.73 | 0.54 | 0.69 | 0.84 | 28.8 | 6.91 | 0.53 | 0.70 | 0.88 | 24.3 | 8.30 | 0.52 | 0.72 | 0.93 | 22.8 | 8.78 | .54 | .78 | .93 |
| | 1890 | 34.7 | 5.76 | 0.59 | 0.76 | 0.94 | 30.3 | 6.95 | 0.58 | 0.78 | 0.98 | 25.6 | 8.33 | 0.58 | 0.81 | 1.00 | 24.1 | 8.83 | .60 | .88 | 1.00 |
| | 2265 | 36.0 | 5.78 | 0.62 | 0.82 | 1.00 | 31.4 | 6.97 | 0.63 | 0.85 | 1.00 | 26.7 | 8.37 | 0.63 | 0.91 | 1.00 | 25.1 | 8.86 | .67 | .97 | 1.00 |
| 21.7°C | 1510 | 35.3 | 5.76 | 0.40 | 0.54 | 0.67 | 31.1 | 6.96 | 0.37 | 0.53 | 0.68 | 26.5 | 8.36 | 0.33 | 0.52 | 0.70 | 25.1 | 8.85 | .33 | .55 | .69 |
| | 1890 | 37.2 | 5.80 | 0.42 | 0.58 | 0.74 | 32.7 | 7.00 | 0.40 | 0.58 | 0.76 | 27.9 | 8.40 | 0.37 | 0.58 | 0.79 | 26.4 | 8.90 | .36 | .62 | .78 |
| | 2265 | 38.5 | 5.82 | 0.44 | 0.62 | 0.80 | 33.8 | 7.03 | 0.42 | 0.62 | 0.83 | 28.9 | 8.44 | 0.40 | 0.64 | 0.88 | 27.4 | 8.94 | .40 | .68 | .87 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1510 | 19.8 | 9.12 | 0.76 | 1.00 | 1.00 | 18.8 | 9.53 | 0.76 | 1.00 | 1.00 | 17.9 | 9.90 | 0.78 | 1.00 | 1.00 | | | |
| | 1890 | 21.8 | 9.19 | 0.87 | 1.00 | 1.00 | 20.8 | 9.60 | 0.89 | 1.00 | 1.00 | 19.9 | 9.97 | 0.91 | 1.00 | 1.00 | | | |
| | 2265 | 23.4 | 9.24 | 0.97 | 1.00 | 1.00 | 22.3 | 9.66 | 0.99 | 1.00 | 1.00 | 21.3 | 10.03 | 1.00 | 1.00 | 1.00 | | | |
| 19.4°C | 1510 | 21.7 | 9.18 | 0.51 | 0.74 | 0.97 | 20.5 | 9.59 | 0.51 | 0.75 | 0.99 | 19.5 | 9.96 | 0.50 | 0.75 | 1.00 | | | |
| | 1890 | 22.9 | 9.23 | 0.58 | 0.84 | 1.00 | 21.7 | 9.64 | 0.58 | 0.86 | 1.00 | 20.6 | 10.00 | 0.58 | 0.88 | 1.00 | | | |
| | 2265 | 23.9 | 9.26 | 0.64 | 0.95 | 1.00 | 22.6 | 9.67 | 0.64 | 0.97 | 1.00 | 21.6 | 10.04 | 0.65 | 0.98 | 1.00 | | | |
| 21.7°C | 1510 | 23.8 | 9.25 | 0.31 | 0.52 | 0.72 | 22.6 | 9.67 | 0.29 | 0.52 | 0.73 | 21.5 | 10.04 | 0.28 | 0.51 | 0.73 | | | |
| | 1890 | 25.1 | 9.30 | 0.34 | 0.58 | 0.82 | 23.8 | 9.71 | 0.33 | 0.59 | 0.83 | 22.7 | 10.08 | 0.33 | 0.59 | 0.85 | | | |
| | 2265 | 25.9 | 9.30 | 0.38 | 0.65 | 0.92 | 24.6 | 9.74 | 0.37 | 0.65 | 0.94 | 23.5 | 10.12 | 0.36 | 0.66 | 0.96 | | | |

RATINGS

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

35 KW HIGH EFFICIENCY - KGA120H4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 17.5 | 2.32 | 0.69 | 0.85 | 1 | 16.6 | 2.63 | 0.7 | 0.87 | 1 | 15.7 | 2.99 | 0.71 | 0.89 | 1 | 14.7 | 3.39 | 0.73 | 0.93 | 1 |
| | 1890 | 18.3 | 2.34 | 0.75 | 0.95 | 1 | 17.4 | 2.65 | 0.76 | 0.98 | 1 | 16.5 | 3 | 0.78 | 1 | 1 | 15.6 | 3.4 | 0.8 | 1 | 1 |
| | 2265 | 19 | 2.36 | 0.81 | 1 | 1 | 18.2 | 2.68 | 0.82 | 1 | 1 | 17.3 | 3.03 | 0.85 | 1 | 1 | 16.4 | 3.43 | 0.88 | 1 | 1 |
| 19.4°C | 1510 | 18.5 | 2.34 | 0.55 | 0.67 | 0.81 | 17.6 | 2.66 | 0.55 | 0.68 | 0.83 | 16.7 | 3 | 0.55 | 0.69 | 0.85 | 15.7 | 3.41 | 0.56 | 0.71 | 0.88 |
| | 1890 | 19.4 | 2.37 | 0.58 | 0.73 | 0.91 | 18.4 | 2.69 | 0.59 | 0.74 | 0.94 | 17.5 | 3.03 | 0.59 | 0.76 | 0.97 | 16.4 | 3.43 | 0.6 | 0.77 | 0.99 |
| | 2265 | 20 | 2.38 | 0.61 | 0.79 | 0.99 | 19 | 2.7 | 0.62 | 0.8 | 1 | 18 | 3.05 | 0.63 | 0.83 | 1 | 16.9 | 3.44 | 0.63 | 0.86 | 1 |
| 21.7°C | 1510 | 19.6 | 2.37 | 0.41 | 0.54 | 0.65 | 18.7 | 2.69 | 0.39 | 0.54 | 0.66 | 17.7 | 3.04 | 0.41 | 0.54 | 0.67 | 16.7 | 3.44 | 0.4 | 0.55 | 0.69 |
| | 1890 | 20.5 | 2.4 | 0.43 | 0.57 | 0.71 | 19.5 | 2.72 | 0.43 | 0.58 | 0.73 | 18.5 | 3.07 | 0.42 | 0.59 | 0.74 | 17.4 | 3.46 | 0.43 | 0.59 | 0.75 |
| | 2265 | 21.1 | 2.42 | 0.45 | 0.61 | 0.77 | 20.1 | 2.74 | 0.44 | 0.61 | 0.78 | 19 | 3.09 | 0.44 | 0.62 | 0.8 | 17.9 | 3.48 | 0.44 | 0.63 | 0.83 |

35 KW HIGH EFFICIENCY - KGA120H4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1510 | 32.3 | 5.61 | 0.71 | 0.88 | 1 | 29.5 | 6.8 | 0.73 | 0.93 | 1 | 26.4 | 8.29 | 0.75 | 0.98 | 1 | 24.8 | 8.44 | .82 | 1.00 | 1.00 |
| | 1890 | 33.9 | 5.65 | 0.77 | 0.99 | 1 | 31 | 6.82 | 0.79 | 1 | 1 | 28.2 | 8.3 | 0.84 | 1 | 1 | 26.7 | 8.52 | .92 | 1.00 | 1.00 |
| | 2265 | 35.4 | 5.7 | 0.84 | 1 | 1 | 32.8 | 6.87 | 0.88 | 1 | 1 | 29.7 | 8.31 | 0.95 | 1 | 1 | 28.1 | 8.57 | 1.00 | 1.00 | 1.00 |
| 19.4°C | 1510 | 34.3 | 5.67 | 0.55 | 0.69 | 0.84 | 31.4 | 6.84 | 0.56 | 0.71 | 0.88 | 28.2 | 8.28 | 0.56 | 0.73 | 0.94 | 26.2 | 8.49 | .60 | .82 | .96 |
| | 1890 | 35.9 | 5.72 | 0.59 | 0.75 | 0.95 | 32.7 | 6.86 | 0.6 | 0.77 | 0.99 | 29.4 | 8.31 | 0.61 | 0.82 | 1 | 27.3 | 8.54 | .66 | .91 | 1.00 |
| | 2265 | 36.9 | 5.75 | 0.62 | 0.81 | 1 | 33.7 | 6.89 | 0.63 | 0.86 | 1 | 30.3 | 8.34 | 0.66 | 0.92 | 1 | 28.1 | 8.57 | .73 | 1.00 | 1.00 |
| 21.7°C | 1510 | 36.3 | 5.72 | 0.39 | 0.54 | 0.67 | 33.4 | 6.88 | 0.4 | 0.55 | 0.69 | 30.1 | 8.32 | 0.4 | 0.56 | 0.71 | 28.0 | 8.57 | .41 | .61 | .74 |
| | 1890 | 37.9 | 5.78 | 0.42 | 0.58 | 0.73 | 34.8 | 6.93 | 0.43 | 0.59 | 0.75 | 31.3 | 8.36 | 0.41 | 0.61 | 0.79 | 29.1 | 8.61 | .44 | .67 | .83 |
| | 2265 | 39 | 5.82 | 0.44 | 0.62 | 0.79 | 35.8 | 6.96 | 0.44 | 0.63 | 0.84 | 32.2 | 8.37 | 0.44 | 0.65 | 0.89 | 29.9 | 8.65 | .47 | .74 | .91 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1510 | 24.5 | 9.29 | 0.77 | 1 | 1 | 23.7 | 9.76 | 0.78 | 1 | 1 | 23.1 | 10.2 | 0.79 | 1 | 1 | | | |
| | 1890 | 26.5 | 9.28 | 0.88 | 1 | 1 | 25.6 | 9.77 | 0.90 | 1 | 1 | 24.9 | 10.14 | 0.92 | 1 | 1 | | | |
| | 2265 | 27.8 | 9.30 | 0.99 | 1 | 1 | 27.0 | 9.76 | 1 | 1 | 1 | 26.3 | 10.15 | 1 | 1 | 1 | | | |
| 19.4°C | 1510 | 26.2 | 9.27 | 0.57 | 0.75 | 0.97 | 25.3 | 9.77 | 0.57 | 0.75 | 0.99 | 24.6 | 10.2 | 0.57 | 0.76 | 1 | | | |
| | 1890 | 27.4 | 9.28 | 0.62 | 0.85 | 1.00 | 26.4 | 9.76 | 0.62 | 0.87 | 1.00 | 25.6 | 10.18 | 0.63 | 0.89 | 1 | | | |
| | 2265 | 28.2 | 9.31 | 0.67 | 0.96 | 1.00 | 27.3 | 9.75 | 0.68 | 0.98 | 1.00 | 26.4 | 10.16 | 0.69 | 0.99 | 1 | | | |
| 21.7°C | 1510 | 28.1 | 9.31 | 0.39 | 0.56 | 0.73 | 27.1 | 9.75 | 0.39 | 0.56 | 0.73 | 26.3 | 10.17 | 0.39 | 0.57 | 0.74 | | | |
| | 1890 | 29.2 | 9.29 | 0.41 | 0.61 | 0.82 | 28.2 | 9.74 | 0.41 | 0.62 | 0.84 | 27.4 | 10.16 | 0.41 | 0.62 | 0.86 | | | |
| | 2265 | 30.1 | 9.34 | 0.44 | 0.67 | 0.94 | 29.1 | 9.79 | 0.44 | 0.68 | 0.96 | 28.2 | 10.18 | 0.44 | 0.69 | 0.97 | | | |

RATINGS

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

44 KW STANDARD EFFICIENCY - KGB150S4B (1ST STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1795 | 19.8 | 2.85 | .71 | .86 | 1.00 | 18.5 | 3.16 | .71 | .88 | 1.00 | 17.2 | 3.49 | .72 | .91 | 1.00 | 15.7 | 3.87 | .72 | .93 | 1.00 |
| | 2075 | 20.5 | 2.86 | .74 | .93 | 1.00 | 19.3 | 3.17 | .75 | .94 | 1.00 | 17.9 | 3.50 | .76 | .97 | 1.00 | 16.5 | 3.88 | .78 | 1.00 | 1.00 |
| | 2360 | 21.2 | 2.87 | .78 | .98 | 1.00 | 19.9 | 3.17 | .79 | 1.00 | 1.00 | 18.5 | 3.51 | .81 | 1.00 | 1.00 | 17.2 | 3.88 | .83 | 1.00 | 1.00 |
| 19.4°C | 1795 | 21.3 | 2.87 | .55 | .68 | .83 | 20.0 | 3.17 | .54 | .69 | .84 | 18.6 | 3.51 | .54 | .70 | .86 | 17.1 | 3.88 | .53 | .70 | .88 |
| | 2075 | 22.0 | 2.88 | .57 | .72 | .89 | 20.7 | 3.18 | .57 | .73 | .91 | 19.3 | 3.52 | .57 | .74 | .93 | 17.7 | 3.88 | .57 | .75 | .96 |
| | 2360 | 22.7 | 2.89 | .60 | .76 | .94 | 21.3 | 3.19 | .60 | .77 | .97 | 19.8 | 3.52 | .60 | .79 | .99 | 18.3 | 3.89 | .60 | .80 | 1.00 |
| 21.7°C | 1795 | 22.7 | 2.89 | .42 | .55 | .67 | 21.4 | 3.19 | .40 | .54 | .67 | 20.0 | 3.52 | .39 | .53 | .67 | 18.5 | 3.89 | .38 | .53 | .68 |
| | 2075 | 23.6 | 2.90 | .42 | .57 | .70 | 22.2 | 3.20 | .42 | .57 | .71 | 20.7 | 3.53 | .40 | .56 | .71 | 19.1 | 3.90 | .39 | .56 | .73 |
| | 2360 | 24.1 | 2.91 | .44 | .59 | .73 | 22.8 | 3.21 | .43 | .59 | .75 | 21.2 | 3.54 | .42 | .59 | .76 | 19.7 | 3.91 | .41 | .60 | .78 |

44 KW STANDARD EFFICIENCY - KGB150S4B (2ND STAGE) - CONSTANT AIR VOLUME

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1795 | 37.7 | 7.59 | .73 | .90 | 1.00 | 34.6 | 8.42 | .74 | .92 | 1.00 | 29.9 | 9.86 | .78 | .99 | 1.00 | 28.4 | 10.39 | .79 | 1.00 | 1.00 |
| | 2075 | 39.2 | 7.61 | .78 | .96 | 1.00 | 36.1 | 8.45 | .79 | .99 | 1.00 | 31.7 | 9.89 | .83 | 1.00 | 1.00 | 30.3 | 10.43 | .85 | 1.00 | 1.00 |
| | 2360 | 40.5 | 7.64 | .82 | 1.00 | 1.00 | 37.6 | 8.47 | .84 | 1.00 | 1.00 | 33.4 | 9.92 | .89 | 1.00 | 1.00 | 31.9 | 10.44 | .91 | 1.00 | 1.00 |
| 19.4°C | 1795 | 40.6 | 7.63 | .55 | .71 | .86 | 37.5 | 8.46 | .55 | .72 | .88 | 32.6 | 9.91 | .56 | .77 | .91 | 30.9 | 10.43 | .56 | .78 | .93 |
| | 2075 | 42.1 | 7.66 | .58 | .75 | .92 | 38.8 | 8.49 | .58 | .77 | .95 | 33.8 | 9.93 | .60 | .83 | .98 | 32.0 | 10.45 | .60 | .84 | .99 |
| | 2360 | 43.3 | 7.69 | .61 | .80 | .98 | 40.0 | 8.51 | .61 | .81 | 1.00 | 34.8 | 9.94 | .63 | .89 | 1.00 | 32.9 | 10.47 | .64 | .90 | 1.00 |
| 21.7°C | 1795 | 43.6 | 7.68 | .40 | .55 | .69 | 40.4 | 8.51 | .39 | .54 | .70 | 35.5 | 9.96 | .37 | .56 | .69 | 33.7 | 10.48 | .36 | .56 | .70 |
| | 2075 | 45.0 | 7.71 | .42 | .58 | .73 | 41.7 | 8.54 | .40 | .58 | .75 | 36.7 | 9.98 | .39 | .61 | .75 | 34.9 | 10.50 | .38 | .61 | .75 |
| | 2360 | 46.2 | 7.73 | .43 | .61 | .77 | 42.9 | 8.56 | .42 | .61 | .79 | 37.7 | 10.00 | .41 | .64 | .79 | 35.9 | 10.53 | .40 | .65 | .81 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1795 | 27.0 | 10.80 | .78 | 1.00 | 1.00 | 25.8 | 11.23 | .79 | 1.00 | 1.00 | 25.2 | 11.60 | .81 | 1.00 | 1.00 |
| | 2075 | 28.8 | 10.84 | .84 | 1.00 | 1.00 | 27.6 | 11.26 | .86 | 1.00 | 1.00 | 27.0 | 11.63 | .88 | 1.00 | 1.00 |
| | 2360 | 30.3 | 10.86 | .90 | 1.00 | 1.00 | 29.2 | 11.29 | .92 | 1.00 | 1.00 | 28.5 | 11.66 | .96 | 1.00 | 1.00 |
| 19.4°C | 1795 | 29.6 | 10.84 | .54 | .75 | .96 | 28.3 | 11.27 | .54 | .76 | .98 | 27.1 | 11.62 | .56 | .81 | .97 |
| | 2075 | 30.7 | 10.86 | .58 | .82 | 1.00 | 29.4 | 11.29 | .58 | .83 | 1.00 | 28.2 | 11.66 | .60 | .88 | 1.00 |
| | 2360 | 31.5 | 10.88 | .62 | .88 | 1.00 | 30.2 | 11.30 | .62 | .89 | 1.00 | 29.0 | 11.67 | .64 | .95 | 1.00 |
| 21.7°C | 1795 | 32.2 | 10.90 | .34 | .54 | .73 | 30.9 | 11.32 | .34 | .54 | .74 | 29.9 | 11.68 | .34 | .57 | .72 |
| | 2075 | 33.4 | 10.91 | .37 | .58 | .79 | 32.0 | 11.33 | .36 | .58 | .80 | 30.9 | 11.70 | .36 | .61 | .78 |
| | 2360 | 34.3 | 10.93 | .39 | .62 | .85 | 32.8 | 11.34 | .38 | .62 | .87 | 31.7 | 11.72 | .38 | .66 | .84 |

RATINGS

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

26 KW STANDARD EFFICIENCY - KGB092S4M (1ST STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 18.3°C | | | | | | 23.9°C | | | | | | 29.4°C | | | | | | 35°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | | |
| 17.2°C | 795 | 14.5 | 2.11 | 0.68 | 0.78 | 0.88 | 13.8 | 2.43 | 0.68 | 0.79 | 0.90 | 13 | 2.78 | 0.69 | 0.8 | 0.91 | 12.3 | 3.17 | 0.69 | 0.81 | 0.93 | | | | |
| | 990 | 15.5 | 2.14 | 0.71 | 0.83 | 0.94 | 14.8 | 2.46 | 0.72 | 0.84 | 0.96 | 14 | 2.81 | 0.72 | 0.85 | 0.97 | 13.1 | 3.19 | 0.73 | 0.87 | 0.99 | | | | |
| | 1190 | 16.3 | 2.15 | 0.74 | 0.87 | 0.99 | 15.5 | 2.47 | 0.75 | 0.89 | 1.00 | 14.6 | 2.82 | 0.76 | 0.90 | 1.00 | 13.7 | 3.21 | 0.77 | 0.92 | 1.00 | | | | |
| 19.4°C | 795 | 15.2 | 2.13 | 0.55 | 0.66 | 0.75 | 14.5 | 2.45 | 0.55 | 0.66 | 0.76 | 13.8 | 2.8 | 0.55 | 0.66 | 0.77 | 13.0 | 3.19 | 0.55 | 0.67 | 0.78 | | | | |
| | 990 | 16.4 | 2.15 | 0.57 | 0.69 | 0.8 | 15.6 | 2.47 | 0.57 | 0.69 | 0.81 | 14.7 | 2.83 | 0.57 | 0.7 | 0.82 | 13.9 | 3.22 | 0.57 | 0.71 | 0.84 | | | | |
| | 1190 | 17.2 | 2.17 | 0.59 | 0.72 | 0.84 | 16.4 | 2.49 | 0.59 | 0.73 | 0.85 | 15.5 | 2.84 | 0.6 | 0.74 | 0.87 | 14.6 | 3.23 | 0.60 | 0.75 | 0.89 | | | | |
| 21.7°C | 795 | 15.9 | 2.14 | 0.43 | 0.54 | 0.63 | 15.2 | 2.46 | 0.43 | 0.54 | 0.64 | 14.4 | 2.82 | 0.42 | 0.54 | 0.64 | 13.7 | 3.21 | 0.42 | 0.53 | 0.65 | | | | |
| | 990 | 17.1 | 2.17 | 0.44 | 0.56 | 0.66 | 16.3 | 2.49 | 0.43 | 0.56 | 0.67 | 15.5 | 2.84 | 0.44 | 0.56 | 0.68 | 14.6 | 3.23 | 0.43 | 0.56 | 0.69 | | | | |
| | 1190 | 18.0 | 2.18 | 0.45 | 0.58 | 0.7 | 17.1 | 2.51 | 0.44 | 0.58 | 0.71 | 16.3 | 2.86 | 0.43 | 0.58 | 0.72 | 15.3 | 3.25 | 0.42 | 0.59 | 0.73 | | | | |

26 KW STANDARD EFFICIENCY - KGB092S4M (2ND STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 26.7°C | | | | | | 35°C | | | | | | 43.3°C | | | | | | 46°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | | |
| 17.2°C | 1135 | 23.9 | 4.32 | 0.75 | 0.89 | 1.00 | 21.5 | 5.27 | 0.76 | 0.92 | 1.00 | 19.0 | 6.37 | 0.79 | 0.95 | 1.00 | 18.2 | 6.75 | .79 | .97 | 1.00 | | | | |
| | 1415 | 25.2 | 4.34 | 0.8 | 0.95 | 1.00 | 22.7 | 5.30 | 0.82 | 0.98 | 1.00 | 20.3 | 6.4 | 0.85 | 1.00 | 1.00 | 19.4 | 6.78 | .86 | 1.00 | 1.00 | | | | |
| | 1700 | 26.2 | 4.36 | 0.84 | 0.99 | 1.00 | 23.8 | 5.32 | 0.87 | 1.00 | 1.00 | 21.3 | 6.43 | 0.91 | 1.00 | 1.00 | 20.5 | 6.81 | .92 | 1.00 | 1.00 | | | | |
| 19.4°C | 1135 | 25.3 | 4.34 | 0.58 | 0.73 | 0.86 | 22.9 | 5.30 | 0.58 | 0.74 | 0.88 | 20.3 | 6.4 | 0.59 | 0.76 | 0.92 | 19.5 | 6.78 | .59 | .76 | .93 | | | | |
| | 1415 | 26.7 | 4.36 | 0.62 | 0.78 | 0.92 | 24.1 | 5.32 | 0.62 | 0.80 | 0.95 | 21.4 | 6.43 | 0.63 | 0.83 | 0.98 | 20.4 | 6.80 | .63 | .83 | .99 | | | | |
| | 1700 | 27.6 | 4.38 | 0.65 | 0.82 | 0.98 | 25 | 5.34 | 0.66 | 0.85 | 0.99 | 22.1 | 6.44 | 0.67 | 0.89 | 1.00 | 21.2 | 6.82 | .68 | .90 | 1.00 | | | | |
| 21.7°C | 1135 | 26.7 | 4.36 | 0.42 | 0.57 | 0.70 | 24.3 | 5.32 | 0.42 | 0.57 | 0.72 | 21.6 | 6.43 | 0.41 | 0.58 | 0.74 | 20.7 | 6.81 | .41 | .58 | .74 | | | | |
| | 1415 | 28.1 | 4.38 | 0.45 | 0.61 | 0.76 | 25.5 | 5.35 | 0.44 | 0.62 | 0.78 | 22.7 | 6.46 | 0.44 | 0.63 | 0.81 | 21.7 | 6.83 | .43 | .63 | .81 | | | | |
| | 1700 | 29.2 | 4.39 | 0.46 | 0.64 | 0.80 | 26.5 | 5.36 | 0.46 | 0.65 | 0.83 | 23.5 | 6.47 | 0.46 | 0.67 | 0.87 | 22.5 | 6.85 | .46 | .67 | .88 | | | | |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | | 50°C | | | | | | 51.7°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1135 | 17.6 | 7.04 | .80 | .97 | 1.00 | 16.9 | 7.34 | .81 | .98 | 1.00 | 16.4 | 7.61 | 0.82 | 0.99 | 1.00 | | | |
| | 1415 | 18.8 | 7.07 | .87 | 1.00 | 1.00 | 18.1 | 7.38 | .88 | 1.00 | 1.00 | 17.6 | 7.65 | 0.9 | 1.00 | 1.00 | | | |
| | 1700 | 19.8 | 7.10 | .93 | 1.00 | 1.00 | 19.2 | 7.40 | .95 | 1.00 | 1.00 | 18.6 | 7.68 | 0.96 | 1.00 | 1.00 | | | |
| 19.4°C | 1135 | 18.8 | 7.08 | .59 | .77 | .94 | 18.1 | 7.37 | .59 | .78 | .96 | 17.4 | 7.64 | 0.6 | 0.8 | 0.97 | | | |
| | 1415 | 19.7 | 7.10 | .64 | .85 | 1.00 | 19.0 | 7.40 | .64 | .86 | 1.00 | 18.3 | 7.66 | 0.65 | 0.88 | 1.00 | | | |
| | 1700 | 20.4 | 7.11 | .68 | .91 | 1.00 | 19.6 | 7.42 | .69 | .93 | 1.00 | 19 | 7.68 | 0.7 | 0.94 | 1.00 | | | |
| 21.7°C | 1135 | 20.0 | 7.11 | .40 | .58 | .75 | 19.3 | 7.41 | .40 | .59 | .76 | 18.6 | 7.68 | 0.4 | 0.6 | 0.78 | | | |
| | 1415 | 21.0 | 7.13 | .43 | .63 | .82 | 20.2 | 7.43 | .43 | .64 | .84 | 19.6 | 7.7 | 0.43 | 0.65 | 0.85 | | | |
| | 1700 | 21.7 | 7.14 | .46 | .68 | .89 | 20.9 | 7.45 | .46 | .68 | .90 | 20.3 | 7.72 | 0.46 | 0.7 | 0.92 | | | |

RATINGS

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

30 KW STANDARD EFFICIENCY - KGB102S4M (1ST STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 905 | 13.5 | 2 | 0.69 | 0.8 | 0.91 | 12.8 | 2.23 | 0.69 | 0.81 | 0.93 | 12.1 | 2.51 | 0.7 | 0.83 | 0.94 | 11.4 | 2.84 | 0.7 | 0.84 | 0.97 |
| | 1135 | 14.4 | 2 | 0.73 | 0.86 | 0.98 | 13.6 | 2.24 | 0.74 | 0.87 | 0.99 | 12.8 | 2.53 | 0.75 | 0.89 | 1.00 | 12 | 2.86 | 0.76 | 0.91 | 1.00 |
| | 1360 | 15 | 2 | 0.77 | 0.91 | 1.00 | 14.2 | 2.24 | 0.78 | 0.93 | 1.00 | 13.4 | 2.54 | 0.79 | 0.95 | 1.00 | 12.6 | 2.88 | 0.81 | 0.97 | 1.00 |
| 19.4°C | 905 | 14.4 | 2 | 0.55 | 0.67 | 0.77 | 13.7 | 2.24 | 0.55 | 0.67 | 0.78 | 12.9 | 2.52 | 0.55 | 0.67 | 0.79 | 12.1 | 2.86 | 0.55 | 0.68 | 0.81 |
| | 1135 | 15.3 | 2 | 0.58 | 0.71 | 0.83 | 14.5 | 2.25 | 0.58 | 0.71 | 0.84 | 13.7 | 2.54 | 0.58 | 0.72 | 0.86 | 12.9 | 2.88 | 0.59 | 0.74 | 0.88 |
| | 1360 | 15.9 | 1.99 | 0.60 | 0.75 | 0.88 | 15.1 | 2.25 | 0.61 | 0.76 | 0.90 | 14.3 | 2.55 | 0.61 | 0.77 | 0.92 | 13.4 | 2.9 | 0.62 | 0.79 | 0.94 |
| 21.7°C | 905 | 15.2 | 2 | 0.43 | 0.54 | 0.64 | 14.5 | 2.25 | 0.42 | 0.54 | 0.64 | 13.7 | 2.54 | 0.42 | 0.54 | 0.65 | 13.0 | 2.89 | 0.41 | 0.54 | 0.66 |
| | 1135 | 16.1 | 1.99 | 0.44 | 0.56 | 0.68 | 15.4 | 2.25 | 0.44 | 0.57 | 0.69 | 14.5 | 2.56 | 0.43 | 0.57 | 0.70 | 13.7 | 2.91 | 0.42 | 0.57 | 0.72 |
| | 1360 | 16.9 | 1.99 | 0.45 | 0.59 | 0.72 | 16.0 | 2.25 | 0.45 | 0.60 | 0.74 | 15.1 | 2.57 | 0.44 | 0.6 | 0.75 | 14.2 | 2.92 | 0.44 | 0.61 | 0.77 |

30 KW STANDARD EFFICIENCY - KGB102S4M (2ND STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 26.7°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 27.3 | 4.82 | 0.77 | 0.92 | 1.00 | 24.7 | 5.82 | 0.79 | 0.95 | 1.00 | 22 | 7.01 | 0.82 | 0.99 | 1.00 | 21.1 | 7.42 | .82 | 1.00 | 1.00 |
| | 1605 | 28.7 | 4.84 | 0.83 | 0.99 | 1.00 | 26.1 | 5.86 | 0.86 | 1.00 | 1.00 | 23.5 | 7.07 | 0.89 | 1.00 | 1.00 | 22.7 | 7.50 | .90 | 1.00 | 1.00 |
| | 1925 | 30 | 4.86 | 0.89 | 1.00 | 1.00 | 27.5 | 5.9 | 0.92 | 1.00 | 1.00 | 24.6 | 7.12 | 0.96 | 1.00 | 1.00 | 23.8 | 7.55 | .98 | 1.00 | 1.00 |
| 19.4°C | 1285 | 29.1 | 4.85 | 0.6 | 0.75 | 0.89 | 26.4 | 5.87 | 0.6 | 0.77 | 0.92 | 23.5 | 7.08 | 0.61 | 0.80 | 0.96 | 22.5 | 7.49 | .61 | .80 | .97 |
| | 1605 | 30.4 | 4.87 | 0.64 | 0.81 | 0.97 | 27.5 | 5.9 | 0.64 | 0.84 | 1.00 | 24.4 | 7.11 | 0.66 | 0.87 | 1.00 | 23.4 | 7.53 | .66 | .88 | 1.00 |
| | 1925 | 31.3 | 4.87 | 0.67 | 0.87 | 1.00 | 28.3 | 5.92 | 0.69 | 0.9 | 1.00 | 25.1 | 7.15 | 0.71 | 0.95 | 1.00 | 24.1 | 7.57 | .71 | .96 | 1.00 |
| 21.7°C | 1285 | 30.8 | 4.87 | 0.44 | 0.58 | 0.72 | 28 | 5.91 | 0.43 | 0.59 | 0.75 | 25 | 7.14 | 0.43 | 0.6 | 0.77 | 24.0 | 7.56 | .42 | .60 | .78 |
| | 1605 | 32.2 | 4.89 | 0.46 | 0.63 | 0.79 | 29.2 | 5.94 | 0.45 | 0.64 | 0.82 | 26 | 7.18 | 0.45 | 0.66 | 0.85 | 24.9 | 7.60 | .45 | .66 | .86 |
| | 1925 | 33.1 | 4.90 | 0.48 | 0.67 | 0.85 | 30.1 | 5.97 | 0.47 | 0.69 | 0.88 | 26.7 | 7.21 | 0.48 | 0.71 | 0.93 | 25.5 | 7.62 | .47 | .71 | .94 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1285 | 20.4 | 7.74 | .83 | 1.00 | 1.00 | 19.8 | 8.09 | .84 | 1.00 | 1.00 | 19.2 | 8.38 | 0.86 | 1.00 | 1.00 |
| | 1605 | 22.0 | 7.83 | .92 | 1.00 | 1.00 | 21.2 | 8.16 | .93 | 1.00 | 1.00 | 20.6 | 8.46 | 0.95 | 1.00 | 1.00 |
| | 1925 | 23.1 | 7.88 | .99 | 1.00 | 1.00 | 22.3 | 8.22 | 1.00 | 1.00 | 1.00 | 21.6 | 8.51 | 1.00 | 1.00 | 1.00 |
| 19.4°C | 1285 | 21.7 | 7.81 | .61 | .81 | .99 | 20.9 | 8.14 | .61 | .82 | 1.00 | 20.3 | 8.43 | 0.62 | 0.84 | 1.00 |
| | 1605 | 22.6 | 7.85 | .67 | .90 | 1.00 | 21.7 | 8.18 | .67 | .91 | 1.00 | 21.0 | 8.48 | 0.69 | 0.93 | 1.00 |
| | 1925 | 23.3 | 7.89 | .72 | .97 | 1.00 | 22.5 | 8.22 | .73 | .99 | 1.00 | 21.7 | 8.52 | 0.75 | 1.00 | 1.00 |
| 21.7°C | 1285 | 23.2 | 7.88 | .42 | .61 | .79 | 22.4 | 8.22 | .42 | .61 | .80 | 21.6 | 8.5 | 0.42 | 0.62 | 0.82 |
| | 1605 | 24.1 | 7.93 | .44 | .67 | .88 | 23.2 | 8.26 | .44 | .67 | .89 | 22.5 | 8.56 | 0.45 | 0.69 | 0.91 |
| | 1925 | 24.7 | 7.96 | .47 | .72 | .96 | 23.9 | 8.30 | .47 | .73 | .97 | 23.1 | 8.59 | 0.48 | 0.75 | 0.99 |

RATINGS

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

35 KW HIGH EFFICIENCY - KGB120S4M (1ST STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 18.3°C | | | | | | 23.9°C | | | | | | 29.4°C | | | | | | 35°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | | |
| 17.2°C | 906 | 14.9 | 2.19 | 0.67 | 0.77 | 0.87 | 14.2 | 2.51 | 0.67 | 0.78 | 0.89 | 13.4 | 2.87 | 0.68 | 0.79 | 0.9 | 12.6 | 3.26 | 0.68 | 0.8 | 0.92 | | | | |
| | 1133 | 15.9 | 2.22 | 0.7 | 0.82 | 0.93 | 15.2 | 2.54 | 0.71 | 0.83 | 0.95 | 14.3 | 2.9 | 0.72 | 0.85 | 0.97 | 13.5 | 3.29 | 0.73 | 0.86 | 0.99 | | | | |
| | 1359 | 16.7 | 2.24 | 0.74 | 0.87 | 0.99 | 15.9 | 2.56 | 0.74 | 0.88 | 1.00 | 15.0 | 2.92 | 0.75 | 0.90 | 1.00 | 14.1 | 3.32 | 0.77 | 0.92 | 1.00 | | | | |
| 19.4°C | 906 | 15.9 | 2.21 | 0.54 | 0.64 | 0.74 | 15.1 | 2.54 | 0.54 | 0.65 | 0.75 | 14.3 | 2.9 | 0.54 | 0.65 | 0.76 | 13.5 | 3.29 | 0.54 | 0.66 | 0.77 | | | | |
| | 1133 | 17.0 | 2.24 | 0.56 | 0.68 | 0.79 | 16.1 | 2.57 | 0.56 | 0.68 | 0.8 | 15.3 | 2.93 | 0.56 | 0.69 | 0.81 | 14.4 | 3.32 | 0.57 | 0.7 | 0.83 | | | | |
| | 1359 | 17.8 | 2.26 | 0.58 | 0.71 | 0.83 | 16.9 | 2.59 | 0.59 | 0.72 | 0.85 | 16.0 | 2.95 | 0.59 | 0.73 | 0.87 | 15.1 | 3.34 | 0.59 | 0.74 | 0.89 | | | | |
| 21.7°C | 906 | 16.8 | 2.24 | 0.43 | 0.53 | 0.62 | 16.0 | 2.56 | 0.42 | 0.52 | 0.62 | 15.2 | 2.93 | 0.42 | 0.52 | 0.63 | 14.4 | 3.32 | 0.41 | 0.52 | 0.63 | | | | |
| | 1133 | 18.0 | 2.26 | 0.43 | 0.55 | 0.65 | 17.1 | 2.59 | 0.43 | 0.55 | 0.66 | 16.2 | 2.95 | 0.43 | 0.55 | 0.67 | 15.4 | 3.35 | 0.42 | 0.55 | 0.68 | | | | |
| | 1359 | 18.9 | 2.28 | 0.44 | 0.57 | 0.69 | 18.0 | 2.61 | 0.44 | 0.57 | 0.70 | 17.0 | 2.97 | 0.44 | 0.58 | 0.71 | 16.1 | 3.37 | 0.43 | 0.58 | 0.72 | | | | |

35 KW HIGH EFFICIENCY - KGB120S4M (2ND STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 26.7°C | | | | | | 35°C | | | | | | 43.3°C | | | | | | 46°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | | |
| 17.2°C | 1285 | 30 | 5.47 | 0.74 | 0.88 | 1.00 | 27.3 | 6.63 | 0.76 | 0.91 | 1.00 | 24.3 | 7.96 | 0.78 | 0.95 | 1.00 | 23.3 | 8.42 | .78 | .96 | 1.00 | | | | |
| | 1605 | 31.7 | 5.52 | 0.79 | 0.95 | 1.00 | 28.8 | 6.68 | 0.82 | 0.98 | 1.00 | 25.8 | 8.01 | 0.85 | 1.00 | 1.00 | 24.9 | 8.47 | .86 | 1.00 | 1.00 | | | | |
| | 1925 | 33 | 5.55 | 0.84 | 1.00 | 1.00 | 30.2 | 6.72 | 0.87 | 1.00 | 1.00 | 27.3 | 8.06 | 0.91 | 1.00 | 1.00 | 26.3 | 8.52 | .93 | 1.00 | 1.00 | | | | |
| 19.4°C | 1285 | 32.1 | 5.53 | 0.58 | 0.72 | 0.85 | 29.3 | 6.69 | 0.58 | 0.73 | 0.87 | 26.2 | 8.02 | 0.59 | 0.76 | 0.91 | 25.1 | 8.48 | .58 | .76 | .92 | | | | |
| | 1605 | 33.8 | 5.57 | 0.61 | 0.77 | 0.92 | 30.8 | 6.73 | 0.62 | 0.79 | 0.95 | 27.5 | 8.06 | 0.63 | 0.83 | 0.99 | 26.3 | 8.52 | .63 | .83 | 1.00 | | | | |
| | 1925 | 35.1 | 5.59 | 0.65 | 0.82 | 0.98 | 31.9 | 6.76 | 0.66 | 0.85 | 1.00 | 28.4 | 8.09 | 0.68 | 0.89 | 1.00 | 27.2 | 8.55 | .68 | .90 | 1.00 | | | | |
| 21.7°C | 1285 | 34.1 | 5.57 | 0.43 | 0.57 | 0.69 | 31.2 | 6.74 | 0.43 | 0.57 | 0.71 | 28 | 8.07 | 0.42 | 0.58 | 0.73 | 26.9 | 8.53 | .41 | .58 | .73 | | | | |
| | 1605 | 35.9 | 5.61 | 0.45 | 0.6 | 0.75 | 32.8 | 6.78 | 0.44 | 0.61 | 0.77 | 29.4 | 8.11 | 0.44 | 0.63 | 0.8 | 28.2 | 8.57 | .44 | .63 | .81 | | | | |
| | 1925 | 37.2 | 5.63 | 0.46 | 0.64 | 0.8 | 34 | 6.8 | 0.46 | 0.65 | 0.83 | 30.4 | 8.13 | 0.46 | 0.67 | 0.87 | 29.2 | 8.59 | .46 | .67 | .88 | | | | |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | | 50°C | | | | | | 51.7°C | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1285 | 22.5 | 8.77 | .79 | .97 | 1.00 | 21.7 | 9.15 | .80 | .99 | 1.00 | 21 | 9.48 | 0.82 | 1.00 | 1.00 | | | |
| | 1605 | 24.1 | 8.83 | .87 | 1.00 | 1.00 | 23.3 | 9.21 | .88 | 1.00 | 1.00 | 22.7 | 9.54 | 0.9 | 1.00 | 1.00 | | | |
| | 1925 | 25.5 | 8.88 | .94 | 1.00 | 1.00 | 24.8 | 9.25 | .95 | 1.00 | 1.00 | 24 | 9.58 | 0.97 | 1.00 | 1.00 | | | |
| 19.4°C | 1285 | 24.3 | 8.84 | .59 | .77 | .94 | 23.4 | 9.21 | .59 | .77 | .95 | 22.6 | 9.54 | 0.6 | 0.79 | 0.97 | | | |
| | 1605 | 25.4 | 8.88 | .64 | .84 | 1.00 | 24.5 | 9.24 | .64 | .85 | 1.00 | 23.7 | 9.57 | 0.66 | 0.87 | 1.00 | | | |
| | 1925 | 26.3 | 8.90 | .68 | .92 | 1.00 | 25.4 | 9.27 | .69 | .93 | 1.00 | 24.5 | 9.59 | 0.71 | 0.95 | 1.00 | | | |
| 21.7°C | 1285 | 26.0 | 8.89 | .41 | .58 | .74 | 25.1 | 9.26 | .41 | .58 | .75 | 24.4 | 9.59 | 0.41 | 0.59 | 0.77 | | | |
| | 1605 | 27.3 | 8.93 | .44 | .63 | .82 | 26.4 | 9.30 | .43 | .64 | .83 | 25.6 | 9.62 | 0.44 | 0.65 | 0.85 | | | |
| | 1925 | 28.2 | 8.95 | .46 | .68 | .89 | 27.3 | 9.32 | .46 | .69 | .91 | 26.3 | 9.64 | 0.46 | 0.7 | 0.93 | | | |

RATINGS

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

44 KW STANDARD EFFICIENCY - KGB150S4M (1ST STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 18.3°C | | | | | 23.9°C | | | | | 29.4°C | | | | | 35°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1208 | 18.8 | 2.96 | 0.69 | 0.8 | 0.9 | 18.0 | 3.29 | 0.69 | 0.8 | 0.92 | 17.1 | 3.64 | 0.69 | 0.82 | 0.93 | 16.1 | 4.03 | 0.70 | 0.83 | 0.96 |
| | 1510 | 20.0 | 2.98 | 0.72 | 0.85 | 0.97 | 19.1 | 3.30 | 0.73 | 0.87 | 0.99 | 18.2 | 3.66 | 0.74 | 0.88 | 1.00 | 17.1 | 4.05 | 0.75 | 0.90 | 1.00 |
| | 1642 | 20.5 | 2.99 | 0.74 | 0.88 | 1.00 | 19.6 | 3.31 | 0.75 | 0.89 | 1.00 | 18.6 | 3.66 | 0.76 | 0.91 | 1.00 | 17.5 | 4.05 | 0.77 | 0.93 | 1.00 |
| 19.4°C | 1208 | 20.1 | 2.98 | 0.55 | 0.66 | 0.77 | 19.3 | 3.30 | 0.55 | 0.66 | 0.77 | 18.3 | 3.66 | 0.55 | 0.67 | 0.78 | 17.4 | 4.05 | 0.55 | 0.68 | 0.80 |
| | 1510 | 21.3 | 3.00 | 0.57 | 0.7 | 0.82 | 20.5 | 3.32 | 0.58 | 0.71 | 0.83 | 19.5 | 3.67 | 0.58 | 0.72 | 0.85 | 18.3 | 4.06 | 0.58 | 0.73 | 0.86 |
| | 1642 | 21.8 | 3.01 | 0.58 | 0.72 | 0.84 | 20.8 | 3.33 | 0.59 | 0.73 | 0.86 | 19.8 | 3.68 | 0.59 | 0.74 | 0.87 | 18.7 | 4.07 | 0.60 | 0.75 | 0.89 |
| 21.7°C | 1208 | 21.5 | 3.00 | 0.44 | 0.54 | 0.64 | 20.5 | 3.32 | 0.43 | 0.53 | 0.64 | 19.6 | 3.67 | 0.42 | 0.54 | 0.64 | 18.5 | 4.06 | 0.42 | 0.53 | 0.65 |
| | 1510 | 22.7 | 3.03 | 0.44 | 0.56 | 0.67 | 21.8 | 3.34 | 0.44 | 0.56 | 0.68 | 20.8 | 3.69 | 0.43 | 0.57 | 0.69 | 19.7 | 4.08 | 0.43 | 0.57 | 0.70 |
| | 1642 | 23.2 | 3.03 | 0.44 | 0.57 | 0.69 | 22.2 | 3.35 | 0.44 | 0.57 | 0.70 | 21.1 | 3.70 | 0.44 | 0.58 | 0.71 | 20.0 | 4.09 | 0.44 | 0.58 | 0.72 |

44 KW STANDARD EFFICIENCY - KGB150S4M (2ND STAGE) - MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|
| | | 29.4°C | | | | | 35°C | | | | | 43.3°C | | | | | 46°C | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | |
| 17.2°C | 1795 | 40.1 | 7.33 | 0.76 | 0.91 | 1.00 | 36.8 | 8.56 | 0.78 | 0.94 | 1.00 | 33.2 | 10.04 | 0.81 | 0.98 | 1.00 | 31.9 | 10.57 | .81 | .99 | 1.00 |
| | 2075 | 41.4 | 7.38 | 0.8 | 0.96 | 1.00 | 38.0 | 8.60 | 0.82 | 0.99 | 1.00 | 34.4 | 10.09 | 0.85 | 1.00 | 1.00 | 33.3 | 10.63 | .86 | 1.00 | 1.00 |
| | 2360 | 42.6 | 7.41 | 0.84 | 0.99 | 1.00 | 39.2 | 8.65 | 0.86 | 1.00 | 1.00 | 35.9 | 10.14 | 0.9 | 1.00 | 1.00 | 34.7 | 10.69 | .91 | 1.00 | 1.00 |
| 19.4°C | 1795 | 42.7 | 7.42 | 0.59 | 0.74 | 0.87 | 39.2 | 8.65 | 0.6 | 0.76 | 0.90 | 35.5 | 10.13 | 0.61 | 0.79 | 0.95 | 34.2 | 10.67 | .61 | .79 | .96 |
| | 2075 | 44 | 7.46 | 0.62 | 0.78 | 0.92 | 40.4 | 8.69 | 0.63 | 0.8 | 0.96 | 36.5 | 10.18 | 0.64 | 0.83 | 0.99 | 35.1 | 10.70 | .64 | .84 | 1.00 |
| | 2360 | 45.1 | 7.50 | 0.64 | 0.81 | 0.97 | 41.4 | 8.72 | 0.65 | 0.84 | 1.00 | 37.3 | 10.2 | 0.67 | 0.87 | 1.00 | 35.9 | 10.73 | .67 | .88 | 1.00 |
| 21.7°C | 1795 | 45.2 | 7.50 | 0.44 | 0.58 | 0.72 | 41.7 | 8.73 | 0.44 | 0.59 | 0.73 | 37.7 | 10.23 | 0.44 | 0.6 | 0.76 | 36.5 | 10.76 | .43 | .60 | .76 |
| | 2075 | 46.6 | 7.55 | 0.46 | 0.61 | 0.75 | 42.9 | 8.78 | 0.45 | 0.62 | 0.78 | 38.8 | 10.27 | 0.45 | 0.63 | 0.81 | 37.4 | 10.80 | .45 | .63 | .81 |
| | 2360 | 47.7 | 7.60 | 0.46 | 0.63 | 0.79 | 43.9 | 8.82 | 0.46 | 0.65 | 0.82 | 39.7 | 10.31 | 0.46 | 0.66 | 0.85 | 38.2 | 10.84 | .46 | .66 | .86 |

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|-----------------|-------------------|-------------------------------|------|------|--|--|--|
| | | 48°C | | | | | 50°C | | | | | 51.7°C | | | | | | | |
| | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | Total Cool Cap. | Comp. Motor Input | Sensible To Total Ratio (S/T) | | | | | |
| | | | | Dry Bulb | | | | | Dry Bulb | | | | | Dry Bulb | | | | | |
| L/s | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | kW | kW | 24°C | 27°C | 29°C | | | | |
| 17.2°C | 1795 | 31.0 | 11.00 | .82 | 1.00 | 1.00 | 30.0 | 11.45 | .83 | 1.00 | 1.00 | 29.3 | 11.85 | 0.85 | 1.00 | 1.00 | | | |
| | 2075 | 32.5 | 11.06 | .87 | 1.00 | 1.00 | 31.6 | 11.50 | .88 | 1.00 | 1.00 | 30.8 | 11.92 | 0.9 | 1.00 | 1.00 | | | |
| | 2360 | 33.8 | 11.11 | .92 | 1.00 | 1.00 | 32.9 | 11.56 | .93 | 1.00 | 1.00 | 32.0 | 11.96 | 0.95 | 1.00 | 1.00 | | | |
| 19.4°C | 1795 | 33.2 | 11.09 | .62 | .80 | .97 | 32.1 | 11.54 | .62 | .80 | .98 | 31.2 | 11.93 | 0.63 | 0.82 | 0.99 | | | |
| | 2075 | 34.1 | 11.12 | .65 | .84 | 1.00 | 33.0 | 11.57 | .65 | .86 | 1.00 | 32.1 | 11.97 | 0.66 | 0.88 | 1.00 | | | |
| | 2360 | 34.8 | 11.15 | .68 | .90 | 1.00 | 33.8 | 11.59 | .68 | .91 | 1.00 | 32.9 | 12.00 | 0.69 | 0.93 | 1.00 | | | |
| 21.7°C | 1795 | 35.4 | 11.18 | .43 | .60 | .77 | 34.4 | 11.63 | .43 | .61 | .78 | 33.4 | 12.03 | 0.43 | 0.62 | 0.8 | | | |
| | 2075 | 36.4 | 11.22 | .45 | .64 | .82 | 35.3 | 11.66 | .45 | .64 | .83 | 34.3 | 12.08 | 0.45 | 0.65 | 0.85 | | | |
| | 2360 | 37.2 | 11.25 | .46 | .67 | .87 | 36.0 | 11.71 | .46 | .68 | .88 | 35.0 | 12.10 | 0.46 | 0.69 | 0.9 | | | |

BLOWER DATA

092S STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 34 for blower motors and drives.

See page 34 for wet coil and option/accessory air resistance data.

MAXIMUM STATIC PRESSURE WITH GAS HEAT - 500 Pa (2.0 in. w.g.)

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 825 | 1750 | 608 | 0.04 | 0.05 | 651 | 0.02 | 0.03 | 696 | 0.04 | 0.06 | 744 | 0.16 | 0.22 | 794 | 0.45 | 0.60 | 845 | 0.71 | 0.95 | 894 | 0.93 | 1.24 |
| 945 | 2000 | 615 | 0.05 | 0.07 | 657 | 0.04 | 0.05 | 702 | 0.07 | 0.10 | 748 | 0.27 | 0.36 | 797 | 0.54 | 0.72 | 846 | 0.78 | 1.05 | 892 | 0.97 | 1.30 |
| 1062 | 2250 | 624 | 0.07 | 0.09 | 664 | 0.05 | 0.07 | 707 | 0.10 | 0.14 | 753 | 0.37 | 0.50 | 800 | 0.63 | 0.84 | 847 | 0.86 | 1.15 | 892 | 1.03 | 1.38 |
| 1180 | 2500 | 632 | 0.08 | 0.11 | 672 | 0.07 | 0.09 | 714 | 0.22 | 0.29 | 758 | 0.48 | 0.64 | 803 | 0.72 | 0.97 | 849 | 0.94 | 1.26 | 893 | 1.10 | 1.48 |
| 1298 | 2750 | 641 | 0.10 | 0.13 | 680 | 0.08 | 0.11 | 721 | 0.34 | 0.45 | 763 | 0.58 | 0.78 | 807 | 0.81 | 1.09 | 852 | 1.02 | 1.37 | 896 | 1.18 | 1.58 |
| 1416 | 3000 | 651 | 0.11 | 0.15 | 689 | 0.22 | 0.29 | 728 | 0.46 | 0.61 | 770 | 0.69 | 0.93 | 812 | 0.92 | 1.23 | 856 | 1.11 | 1.49 | 901 | 1.27 | 1.70 |
| 1534 | 3250 | 661 | 0.13 | 0.17 | 698 | 0.34 | 0.46 | 737 | 0.58 | 0.78 | 777 | 0.81 | 1.09 | 819 | 1.03 | 1.38 | 862 | 1.22 | 1.63 | 908 | 1.37 | 1.84 |
| 1652 | 3500 | 672 | 0.27 | 0.36 | 708 | 0.48 | 0.65 | 746 | 0.71 | 0.95 | 786 | 0.93 | 1.25 | 827 | 1.14 | 1.53 | 870 | 1.33 | 1.78 | 916 | 1.48 | 1.99 |
| 1770 | 3750 | 684 | 0.42 | 0.56 | 719 | 0.63 | 0.85 | 756 | 0.85 | 1.14 | 795 | 1.07 | 1.43 | 836 | 1.27 | 1.7 | 880 | 1.45 | 1.95 | 927 | 1.61 | 2.16 |
| 1888 | 4000 | 697 | 0.58 | 0.78 | 731 | 0.78 | 1.05 | 768 | 1.00 | 1.34 | 807 | 1.21 | 1.62 | 848 | 1.41 | 1.89 | 892 | 1.59 | 2.13 | 940 | 1.75 | 2.34 |
| 2006 | 4250 | 710 | 0.75 | 1.0 | 745 | 0.95 | 1.27 | 781 | 1.16 | 1.55 | 819 | 1.37 | 1.83 | 861 | 1.56 | 2.09 | 906 | 1.74 | 2.33 | 954 | 1.90 | 2.55 |

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 825 | 1750 | 934 | 1.03 | 1.38 | 978 | 1.10 | 1.47 | 1047 | 1.24 | 1.66 | 1120 | 1.41 | 1.89 | 1179 | 1.60 | 2.15 | 1230 | 1.79 | 2.40 |
| 945 | 2000 | 933 | 1.08 | 1.45 | 977 | 1.16 | 1.55 | 1049 | 1.31 | 1.75 | 1124 | 1.49 | 2.00 | 1181 | 1.66 | 2.23 | 1234 | 1.84 | 2.47 |
| 1062 | 2250 | 934 | 1.14 | 1.53 | 979 | 1.23 | 1.65 | 1051 | 1.39 | 1.86 | 1126 | 1.58 | 2.12 | 1183 | 1.76 | 2.36 | 1238 | 1.95 | 2.62 |
| 1180 | 2500 | 936 | 1.22 | 1.63 | 983 | 1.31 | 1.75 | 1052 | 1.46 | 1.96 | 1124 | 1.66 | 2.22 | 1184 | 1.86 | 2.49 | 1241 | 2.07 | 2.77 |
| 1298 | 2750 | 940 | 1.30 | 1.74 | 989 | 1.40 | 1.88 | 1053 | 1.55 | 2.08 | 1121 | 1.75 | 2.34 | 1185 | 1.96 | 2.63 | 1244 | 2.19 | 2.93 |
| 1416 | 3000 | 947 | 1.40 | 1.87 | 996 | 1.51 | 2.02 | 1055 | 1.65 | 2.21 | 1120 | 1.84 | 2.47 | 1186 | 2.07 | 2.78 | 1248 | 2.31 | 3.10 |
| 1534 | 3250 | 955 | 1.50 | 2.01 | 1004 | 1.62 | 2.17 | 1059 | 1.76 | 2.36 | 1122 | 1.95 | 2.62 | 1189 | 2.19 | 2.94 | 1252 | 2.45 | 3.28 |
| 1652 | 3500 | 965 | 1.62 | 2.17 | 1013 | 1.74 | 2.33 | 1065 | 1.88 | 2.52 | 1126 | 2.08 | 2.79 | 1193 | 2.33 | 3.12 | 1257 | 2.59 | 3.47 |
| 1770 | 3750 | 976 | 1.75 | 2.34 | 1023 | 1.87 | 2.51 | 1073 | 2.02 | 2.71 | 1133 | 2.22 | 2.98 | 1198 | 2.48 | 3.32 | 1263 | 2.74 | 3.67 |
| 1888 | 4000 | 988 | 1.89 | 2.53 | 1034 | 2.02 | 2.71 | 1083 | 2.17 | 2.91 | 1141 | 2.38 | 3.19 | 1205 | 2.63 | 3.53 | 1270 | 2.90 | 3.89 |
| 2006 | 4250 | 1001 | 2.04 | 2.74 | 1046 | 2.19 | 2.93 | 1094 | 2.34 | 3.14 | 1151 | 2.55 | 3.42 | 1214 | 2.80 | 3.76 | 1278 | 3.07 | 4.12 |

BLOWER DATA

092H AND 102H HIGH EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 34 for blower motors and drives.

See page 34 for wet coil and option/accessory air resistance data.

MAXIMUM STATIC PRESSURE WITH GAS HEAT - 500 Pa (2.0 in. w.g.)

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 825 | 1750 | 481 | 0.16 | 0.21 | 549 | 0.30 | 0.4 | 618 | 0.43 | 0.57 | 688 | 0.52 | 0.70 | 758 | 0.61 | 0.82 | 824 | 0.69 | 0.93 | 885 | 0.81 | 1.08 |
| 945 | 2000 | 493 | 0.22 | 0.29 | 561 | 0.35 | 0.47 | 629 | 0.48 | 0.64 | 700 | 0.57 | 0.77 | 768 | 0.67 | 0.90 | 832 | 0.76 | 1.02 | 892 | 0.87 | 1.17 |
| 1062 | 2250 | 507 | 0.28 | 0.37 | 574 | 0.42 | 0.56 | 643 | 0.54 | 0.72 | 712 | 0.64 | 0.86 | 779 | 0.74 | 0.99 | 842 | 0.84 | 1.13 | 900 | 0.95 | 1.28 |
| 1180 | 2500 | 521 | 0.34 | 0.46 | 588 | 0.48 | 0.64 | 657 | 0.60 | 0.81 | 727 | 0.71 | 0.95 | 792 | 0.81 | 1.09 | 853 | 0.93 | 1.24 | 909 | 1.04 | 1.40 |
| 1298 | 2750 | 537 | 0.42 | 0.56 | 604 | 0.55 | 0.74 | 674 | 0.68 | 0.91 | 743 | 0.79 | 1.06 | 806 | 0.90 | 1.21 | 865 | 1.01 | 1.36 | 920 | 1.14 | 1.53 |
| 1416 | 3000 | 554 | 0.50 | 0.67 | 622 | 0.64 | 0.86 | 692 | 0.76 | 1.02 | 760 | 0.88 | 1.18 | 822 | 1.00 | 1.34 | 878 | 1.12 | 1.50 | 931 | 1.25 | 1.68 |
| 1534 | 3250 | 572 | 0.58 | 0.78 | 641 | 0.73 | 0.98 | 712 | 0.86 | 1.15 | 778 | 0.98 | 1.32 | 838 | 1.11 | 1.49 | 892 | 1.24 | 1.66 | 943 | 1.37 | 1.84 |
| 1652 | 3500 | 592 | 0.67 | 0.90 | 663 | 0.84 | 1.12 | 733 | 0.97 | 1.30 | 798 | 1.10 | 1.47 | 855 | 1.23 | 1.65 | 907 | 1.37 | 1.83 | 956 | 1.51 | 2.02 |
| 1770 | 3750 | 614 | 0.78 | 1.04 | 687 | 0.95 | 1.28 | 756 | 1.10 | 1.47 | 818 | 1.23 | 1.65 | 872 | 1.37 | 1.83 | 923 | 1.51 | 2.02 | 970 | 1.66 | 2.22 |
| 1888 | 4000 | 639 | 0.91 | 1.22 | 713 | 1.10 | 1.48 | 780 | 1.24 | 1.66 | 838 | 1.37 | 1.83 | 890 | 1.51 | 2.02 | 939 | 1.66 | 2.22 | 984 | 1.82 | 2.44 |
| 2006 | 4250 | 667 | 1.07 | 1.43 | 741 | 1.26 | 1.69 | 805 | 1.39 | 1.86 | 859 | 1.51 | 2.02 | 909 | 1.66 | 2.22 | 956 | 1.83 | 2.45 | 998 | 2.00 | 2.68 |

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|---------|----|-----|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | | | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 825 | 1750 | 941 | 0.92 | 1.23 | 991 | 1.04 | 1.39 | 1038 | 1.15 | 1.54 | 1082 | 1.25 | 1.68 | 1124 | 1.36 | 1.82 | 1166 | 1.45 | 1.95 | | | |
| 945 | 2000 | 946 | 0.99 | 1.33 | 995 | 1.11 | 1.49 | 1041 | 1.24 | 1.66 | 1085 | 1.35 | 1.81 | 1126 | 1.47 | 1.97 | 1167 | 1.58 | 2.12 | | | |
| 1062 | 2250 | 953 | 1.07 | 1.44 | 1001 | 1.20 | 1.61 | 1045 | 1.33 | 1.78 | 1088 | 1.45 | 1.95 | 1128 | 1.58 | 2.12 | 1168 | 1.72 | 2.30 | | | |
| 1180 | 2500 | 960 | 1.17 | 1.57 | 1007 | 1.30 | 1.74 | 1050 | 1.44 | 1.93 | 1091 | 1.57 | 2.11 | 1130 | 1.71 | 2.29 | 1170 | 1.85 | 2.48 | | | |
| 1298 | 2750 | 969 | 1.28 | 1.71 | 1014 | 1.41 | 1.89 | 1055 | 1.55 | 2.08 | 1095 | 1.69 | 2.27 | 1133 | 1.84 | 2.47 | 1172 | 1.98 | 2.66 | | | |
| 1416 | 3000 | 979 | 1.39 | 1.86 | 1021 | 1.54 | 2.06 | 1061 | 1.69 | 2.26 | 1099 | 1.84 | 2.46 | 1136 | 1.98 | 2.65 | 1174 | 2.13 | 2.85 | | | |
| 1534 | 3250 | 989 | 1.51 | 2.03 | 1030 | 1.67 | 2.24 | 1068 | 1.83 | 2.45 | 1105 | 1.98 | 2.65 | 1141 | 2.13 | 2.85 | 1178 | 2.28 | 3.06 | | | |
| 1652 | 3500 | 1000 | 1.66 | 2.22 | 1039 | 1.82 | 2.44 | 1076 | 1.98 | 2.65 | 1111 | 2.13 | 2.86 | 1146 | 2.29 | 3.07 | 1183 | 2.44 | 3.27 | | | |
| 1770 | 3750 | 1011 | 1.81 | 2.43 | 1049 | 1.98 | 2.65 | 1084 | 2.14 | 2.87 | 1118 | 2.31 | 3.09 | 1152 | 2.45 | 3.29 | 1189 | 2.62 | 3.51 | | | |
| 1888 | 4000 | 1023 | 1.98 | 2.66 | 1059 | 2.16 | 2.89 | 1093 | 2.32 | 3.11 | 1126 | 2.48 | 3.33 | 1160 | 2.64 | 3.54 | 1197 | 2.81 | 3.77 | | | |
| 2006 | 4250 | 1036 | 2.18 | 2.92 | 1070 | 2.35 | 3.15 | 1103 | 2.51 | 3.37 | 1135 | 2.68 | 3.59 | 1169 | 2.84 | 3.81 | 1207 | 3.02 | 4.05 | | | |

BLOWER DATA

102S AND 120S STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 34 for blower motors and drives.

See page 34 for wet coil and option/accessory air resistance data.

MAXIMUM STATIC PRESSURE WITH GAS HEAT - 500 Pa (2.0 in. w.g.)

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 944 | 2000 | 593 | 0.08 | 0.11 | 636 | 0.05 | 0.07 | 682 | 0.07 | 0.10 | 731 | 0.16 | 0.22 | 784 | 0.45 | 0.60 | 840 | 0.72 | 0.96 | 898 | 0.94 | 1.26 |
| 1062 | 2250 | 604 | 0.11 | 0.15 | 645 | 0.08 | 0.11 | 690 | 0.11 | 0.15 | 739 | 0.29 | 0.39 | 790 | 0.55 | 0.74 | 846 | 0.81 | 1.08 | 901 | 1.00 | 1.34 |
| 1180 | 2500 | 615 | 0.14 | 0.19 | 655 | 0.11 | 0.15 | 699 | 0.15 | 0.20 | 747 | 0.41 | 0.55 | 797 | 0.66 | 0.89 | 851 | 0.90 | 1.20 | 906 | 1.07 | 1.44 |
| 1298 | 2750 | 626 | 0.17 | 0.23 | 666 | 0.14 | 0.19 | 709 | 0.28 | 0.37 | 755 | 0.53 | 0.71 | 805 | 0.77 | 1.03 | 858 | 0.98 | 1.32 | 912 | 1.16 | 1.55 |
| 1416 | 3000 | 637 | 0.20 | 0.27 | 677 | 0.18 | 0.24 | 719 | 0.41 | 0.55 | 764 | 0.65 | 0.87 | 813 | 0.88 | 1.18 | 866 | 1.08 | 1.45 | 920 | 1.25 | 1.67 |
| 1534 | 3250 | 650 | 0.23 | 0.31 | 688 | 0.32 | 0.43 | 730 | 0.54 | 0.73 | 775 | 0.78 | 1.04 | 823 | 1.00 | 1.34 | 875 | 1.19 | 1.60 | 930 | 1.35 | 1.81 |
| 1652 | 3500 | 663 | 0.26 | 0.35 | 700 | 0.47 | 0.63 | 741 | 0.69 | 0.92 | 786 | 0.91 | 1.22 | 834 | 1.12 | 1.50 | 886 | 1.31 | 1.76 | 942 | 1.46 | 1.96 |
| 1770 | 3750 | 676 | 0.43 | 0.57 | 714 | 0.63 | 0.84 | 754 | 0.84 | 1.12 | 798 | 1.05 | 1.41 | 846 | 1.25 | 1.68 | 899 | 1.44 | 1.93 | 956 | 1.60 | 2.14 |
| 1888 | 4000 | 691 | 0.59 | 0.79 | 728 | 0.78 | 1.05 | 768 | 0.99 | 1.33 | 812 | 1.20 | 1.61 | 860 | 1.40 | 1.88 | 914 | 1.58 | 2.12 | 971 | 1.75 | 2.34 |
| 2006 | 4250 | 706 | 0.77 | 1.03 | 743 | 0.95 | 1.28 | 783 | 1.16 | 1.55 | 827 | 1.36 | 1.82 | 876 | 1.56 | 2.09 | 931 | 1.74 | 2.33 | 987 | 1.90 | 2.55 |
| 2124 | 4500 | 722 | 0.95 | 1.27 | 759 | 1.13 | 1.52 | 799 | 1.33 | 1.78 | 844 | 1.53 | 2.05 | 894 | 1.72 | 2.31 | 949 | 1.91 | 2.56 | 1003 | 2.08 | 2.79 |
| 2242 | 4750 | 739 | 1.14 | 1.53 | 776 | 1.32 | 1.77 | 817 | 1.51 | 2.03 | 862 | 1.72 | 2.30 | 913 | 1.91 | 2.56 | 968 | 2.10 | 2.81 | 1020 | 2.27 | 3.04 |
| 2360 | 5000 | 757 | 1.34 | 1.79 | 794 | 1.52 | 2.04 | 835 | 1.72 | 2.30 | 882 | 1.91 | 2.56 | 934 | 2.11 | 2.83 | 988 | 2.30 | 3.08 | 1036 | 2.48 | 3.32 |

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 944 | 2000 | 948 | 1.03 | 1.38 | 996 | 1.10 | 1.47 | 1045 | 1.17 | 1.57 | 1092 | 1.28 | 1.71 | 1140 | 1.43 | 1.92 | 1188 | 1.73 | 2.32 |
| 1062 | 2250 | 953 | 1.10 | 1.48 | 1002 | 1.17 | 1.57 | 1052 | 1.27 | 1.70 | 1100 | 1.39 | 1.86 | 1149 | 1.56 | 2.09 | 1197 | 1.81 | 2.42 |
| 1180 | 2500 | 959 | 1.18 | 1.58 | 1009 | 1.25 | 1.68 | 1059 | 1.37 | 1.83 | 1108 | 1.50 | 2.01 | 1158 | 1.69 | 2.26 | 1206 | 1.88 | 2.52 |
| 1298 | 2750 | 966 | 1.27 | 1.70 | 1017 | 1.35 | 1.81 | 1067 | 1.47 | 1.97 | 1117 | 1.62 | 2.17 | 1166 | 1.82 | 2.44 | 1215 | 2.02 | 2.71 |
| 1416 | 3000 | 975 | 1.36 | 1.82 | 1026 | 1.46 | 1.96 | 1076 | 1.59 | 2.13 | 1126 | 1.75 | 2.35 | 1176 | 1.96 | 2.63 | 1225 | 2.18 | 2.92 |
| 1534 | 3250 | 985 | 1.47 | 1.97 | 1036 | 1.58 | 2.12 | 1086 | 1.72 | 2.31 | 1136 | 1.89 | 2.54 | 1186 | 2.11 | 2.83 | 1235 | 2.33 | 3.13 |
| 1652 | 3500 | 997 | 1.60 | 2.14 | 1048 | 1.72 | 2.31 | 1097 | 1.87 | 2.51 | 1147 | 2.05 | 2.75 | 1196 | 2.27 | 3.04 | 1245 | 2.50 | 3.35 |
| 1770 | 3750 | 1010 | 1.73 | 2.32 | 1060 | 1.87 | 2.51 | 1109 | 2.03 | 2.72 | 1158 | 2.22 | 2.98 | 1207 | 2.44 | 3.27 | 1255 | 2.67 | 3.58 |
| 1888 | 4000 | 1023 | 1.89 | 2.53 | 1072 | 2.04 | 2.73 | 1121 | 2.20 | 2.95 | 1169 | 2.40 | 3.22 | 1218 | 2.62 | 3.51 | 1266 | 2.86 | 3.83 |
| 2006 | 4250 | 1037 | 2.06 | 2.76 | 1085 | 2.22 | 2.97 | 1133 | 2.39 | 3.20 | 1181 | 2.59 | 3.47 | 1229 | 2.80 | 3.76 | 1277 | 3.04 | 4.08 |
| 2124 | 4500 | 1052 | 2.24 | 3.00 | 1098 | 2.40 | 3.22 | 1145 | 2.58 | 3.46 | 1193 | 2.78 | 3.73 | 1241 | 3.01 | 4.03 | 1289 | 3.24 | 4.34 |
| 2242 | 4750 | 1066 | 2.44 | 3.27 | 1112 | 2.60 | 3.49 | 1158 | 2.79 | 3.74 | 1205 | 2.99 | 4.01 | 1253 | 3.21 | 4.30 | 1301 | 3.44 | 4.61 |
| 2360 | 5000 | 1081 | 2.65 | 3.55 | 1125 | 2.82 | 3.78 | 1171 | 3.00 | 4.02 | 1218 | 3.20 | 4.29 | 1265 | 3.42 | 4.59 | 1312 | 3.65 | 4.89 |

BLOWER DATA

120H HIGH EFFICIENCY AND 150S STANDARD EFFICIENCY BELT DRIVE BLOWER – BASE UNIT

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY (NO HEAT SECTION) WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE. FOR ALL UNITS ADD:

- 1 – Wet indoor coil air resistance of selected unit.
- 2 – Any factory installed options air resistance (heat section, economizer, etc.)
- 3 – Any field installed accessories air resistance (duct resistance, diffuser, etc.)

Then determine from blower table blower motor output required.

See page 34 for blower motors and drives.

See page 34 for wet coil and option/accessory air resistance data.

MAXIMUM STATIC PRESSURE WITH GAS HEAT - 500 Pa (2.0 in. w.g.)

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 50 (0.20) | | | 100 (0.40) | | | 150 (0.60) | | | 200 (0.80) | | | 250 (1.00) | | | 300 (1.20) | | | 350 (1.40) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 944 | 2000 | 497 | 0.19 | 0.25 | 558 | 0.33 | 0.44 | 624 | 0.45 | 0.60 | 694 | 0.55 | 0.74 | 764 | 0.63 | 0.85 | 830 | 0.74 | 0.99 | 889 | 0.87 | 1.16 |
| 1062 | 2250 | 511 | 0.25 | 0.34 | 573 | 0.39 | 0.52 | 638 | 0.51 | 0.68 | 708 | 0.61 | 0.82 | 776 | 0.70 | 0.94 | 839 | 0.81 | 1.09 | 896 | 0.94 | 1.26 |
| 1180 | 2500 | 527 | 0.33 | 0.44 | 589 | 0.46 | 0.62 | 654 | 0.58 | 0.78 | 723 | 0.68 | 0.91 | 789 | 0.78 | 1.05 | 850 | 0.90 | 1.21 | 904 | 1.04 | 1.39 |
| 1298 | 2750 | 545 | 0.41 | 0.55 | 606 | 0.54 | 0.72 | 672 | 0.66 | 0.88 | 740 | 0.77 | 1.03 | 804 | 0.87 | 1.17 | 861 | 1.00 | 1.34 | 914 | 1.14 | 1.53 |
| 1416 | 3000 | 564 | 0.49 | 0.66 | 626 | 0.63 | 0.84 | 692 | 0.75 | 1.01 | 759 | 0.87 | 1.16 | 819 | 0.98 | 1.32 | 874 | 1.11 | 1.49 | 924 | 1.25 | 1.68 |
| 1534 | 3250 | 585 | 0.59 | 0.79 | 648 | 0.73 | 0.98 | 714 | 0.85 | 1.14 | 778 | 0.98 | 1.31 | 836 | 1.10 | 1.48 | 887 | 1.24 | 1.66 | 935 | 1.39 | 1.86 |
| 1652 | 3500 | 607 | 0.69 | 0.93 | 672 | 0.84 | 1.13 | 737 | 0.98 | 1.31 | 798 | 1.10 | 1.48 | 852 | 1.24 | 1.66 | 901 | 1.38 | 1.85 | 948 | 1.53 | 2.05 |
| 1770 | 3750 | 632 | 0.82 | 1.10 | 698 | 0.98 | 1.31 | 762 | 1.12 | 1.50 | 819 | 1.25 | 1.67 | 869 | 1.39 | 1.86 | 915 | 1.53 | 2.05 | 961 | 1.68 | 2.25 |
| 1888 | 4000 | 660 | 0.97 | 1.30 | 726 | 1.13 | 1.52 | 787 | 1.27 | 1.70 | 838 | 1.40 | 1.87 | 885 | 1.54 | 2.06 | 930 | 1.69 | 2.26 | 974 | 1.85 | 2.48 |
| 2006 | 4250 | 691 | 1.14 | 1.53 | 755 | 1.31 | 1.75 | 810 | 1.42 | 1.91 | 857 | 1.54 | 2.07 | 901 | 1.69 | 2.27 | 945 | 1.87 | 2.50 | 990 | 2.04 | 2.74 |
| 2124 | 4500 | 724 | 1.33 | 1.78 | 783 | 1.48 | 1.98 | 831 | 1.58 | 2.12 | 874 | 1.70 | 2.28 | 917 | 1.87 | 2.50 | 962 | 2.05 | 2.75 | 1006 | 2.25 | 3.02 |
| 2242 | 4750 | 757 | 1.53 | 2.05 | 809 | 1.64 | 2.20 | 851 | 1.74 | 2.33 | 891 | 1.87 | 2.51 | 935 | 2.06 | 2.76 | 980 | 2.28 | 3.05 | 1025 | 2.48 | 3.33 |
| 2360 | 5000 | 787 | 1.72 | 2.31 | 831 | 1.81 | 2.43 | 870 | 1.92 | 2.57 | 910 | 2.07 | 2.78 | 954 | 2.28 | 3.06 | 1000 | 2.52 | 3.38 | 1046 | 2.75 | 3.68 |
| 2477 | 5250 | 814 | 1.90 | 2.55 | 852 | 1.98 | 2.66 | 889 | 2.11 | 2.83 | 930 | 2.31 | 3.09 | 975 | 2.54 | 3.41 | 1023 | 2.80 | 3.76 | 1070 | 3.04 | 4.08 |
| 2595 | 5500 | 835 | 2.07 | 2.78 | 871 | 2.17 | 2.91 | 909 | 2.33 | 3.13 | 952 | 2.57 | 3.44 | 999 | 2.84 | 3.81 | 1049 | 3.12 | 4.18 | 1096 | 3.36 | 4.51 |
| 2713 | 5750 | 854 | 2.25 | 3.01 | 890 | 2.38 | 3.19 | 930 | 2.60 | 3.48 | 977 | 2.88 | 3.86 | 1027 | 3.19 | 4.27 | 1078 | 3.48 | 4.66 | 1126 | 3.72 | 4.99 |
| 2831 | 6000 | 871 | 2.43 | 3.26 | 910 | 2.63 | 3.53 | 955 | 2.91 | 3.90 | 1006 | 3.24 | 4.34 | 1060 | 3.58 | 4.80 | 1111 | 3.87 | 5.19 | 1158 | 4.11 | 5.51 |
| 2949 | 6250 | 890 | 2.66 | 3.57 | 934 | 2.94 | 3.94 | 985 | 3.29 | 4.41 | 1041 | 3.66 | 4.91 | 1096 | 4.01 | 5.38 | --- | --- | --- | --- | --- | --- |

| Air Volume | | TOTAL STATIC PRESSURE - Pa (Inches Water Gauge) | | | | | | | | | | | | | | | | | |
|------------|------|---|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|------------|------|------|
| | | 400 (1.60) | | | 450 (1.80) | | | 500 (2.00) | | | 550 (2.20) | | | 600 (2.40) | | | 650 (2.60) | | |
| L/s | cfm | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP | rev/min | kW | BHP |
| 944 | 2000 | 943 | 1.00 | 1.34 | 994 | 1.13 | 1.52 | 1045 | 1.28 | 1.71 | 1096 | 1.41 | 1.89 | 1146 | 1.55 | 2.08 | 1197 | 1.69 | 2.27 |
| 1062 | 2250 | 948 | 1.08 | 1.45 | 998 | 1.22 | 1.64 | 1048 | 1.37 | 1.83 | 1098 | 1.50 | 2.01 | 1149 | 1.64 | 2.20 | 1200 | 1.79 | 2.40 |
| 1180 | 2500 | 955 | 1.18 | 1.58 | 1003 | 1.32 | 1.77 | 1052 | 1.46 | 1.96 | 1101 | 1.60 | 2.14 | 1152 | 1.74 | 2.33 | 1203 | 1.89 | 2.53 |
| 1298 | 2750 | 962 | 1.28 | 1.72 | 1010 | 1.43 | 1.92 | 1057 | 1.57 | 2.10 | 1105 | 1.71 | 2.29 | 1154 | 1.84 | 2.47 | 1206 | 2.00 | 2.68 |
| 1416 | 3000 | 971 | 1.40 | 1.88 | 1017 | 1.55 | 2.08 | 1063 | 1.69 | 2.26 | 1110 | 1.82 | 2.44 | 1158 | 1.96 | 2.63 | 1208 | 2.11 | 2.83 |
| 1534 | 3250 | 981 | 1.54 | 2.06 | 1026 | 1.69 | 2.26 | 1071 | 1.83 | 2.45 | 1117 | 1.96 | 2.63 | 1163 | 2.09 | 2.80 | 1213 | 2.24 | 3.00 |
| 1652 | 3500 | 993 | 1.69 | 2.26 | 1037 | 1.84 | 2.46 | 1081 | 1.98 | 2.65 | 1125 | 2.11 | 2.83 | 1171 | 2.25 | 3.01 | 1221 | 2.39 | 3.21 |
| 1770 | 3750 | 1005 | 1.84 | 2.47 | 1049 | 2.00 | 2.68 | 1092 | 2.15 | 2.88 | 1136 | 2.28 | 3.05 | 1181 | 2.42 | 3.24 | 1231 | 2.57 | 3.45 |
| 1888 | 4000 | 1018 | 2.02 | 2.71 | 1062 | 2.19 | 2.93 | 1105 | 2.33 | 3.12 | 1149 | 2.46 | 3.30 | 1194 | 2.60 | 3.49 | 1245 | 2.78 | 3.72 |
| 2006 | 4250 | 1034 | 2.22 | 2.98 | 1077 | 2.39 | 3.20 | 1120 | 2.53 | 3.39 | 1163 | 2.67 | 3.58 | 1210 | 2.83 | 3.79 | 1262 | 3.01 | 4.03 |
| 2124 | 4500 | 1051 | 2.44 | 3.27 | 1094 | 2.60 | 3.49 | 1137 | 2.76 | 3.70 | 1181 | 2.90 | 3.89 | 1228 | 3.07 | 4.11 | 1281 | 3.27 | 4.38 |
| 2242 | 4750 | 1070 | 2.68 | 3.59 | 1113 | 2.85 | 3.82 | 1156 | 3.01 | 4.03 | 1201 | 3.16 | 4.24 | 1249 | 3.33 | 4.47 | 1303 | 3.54 | 4.75 |
| 2360 | 5000 | 1091 | 2.95 | 3.95 | 1135 | 3.13 | 4.19 | 1178 | 3.28 | 4.40 | 1224 | 3.45 | 4.62 | 1272 | 3.63 | 4.86 | 1325 | 3.83 | 5.13 |
| 2477 | 5250 | 1115 | 3.25 | 4.35 | 1159 | 3.42 | 4.59 | 1203 | 3.59 | 4.81 | 1248 | 3.75 | 5.03 | 1297 | 3.93 | 5.27 | 1350 | 4.13 | 5.53 |
| 2595 | 5500 | 1142 | 3.57 | 4.79 | 1186 | 3.75 | 5.03 | 1229 | 3.91 | 5.24 | 1275 | 4.07 | 5.46 | 1324 | 4.24 | 5.69 | --- | --- | --- |
| 2713 | 5750 | 1171 | 3.92 | 5.26 | 1214 | 4.10 | 5.49 | 1258 | 4.25 | 5.70 | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2831 | 6000 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 2949 | 6250 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

BLOWER DATA

FACTORY INSTALLED BELT DRIVE KIT SPECIFICATIONS

| Nominal | | Maximum | | Drive Kit Number | Rev/Min Range | |
|---------|----|---------|------|------------------|---------------|-----------|
| kW | hp | kW | hp | | CAV | MSAV |
| 1.5 | 2 | 1.7 | 2.3 | 1 | 490 - 740 | 590-890 |
| 1.5 | 2 | 1.7 | 2.3 | 2 | 665 - 920 | 800-1105 |
| 1.5 | 2 | 1.7 | 2.3 | 3 | 660 - 995 | 795-1195 |
| 2.2 | 3 | 2.6 | 3.45 | 7 | 610 - 810 | 730-970 |
| 2.2 | 3 | 2.6 | 3.45 | 8 | 780 - 1000 | 940-1200 |
| 2.2 | 3 | 2.6 | 3.45 | 9 | 845 - 1085 | 1015-1300 |
| 3.7 | 5 | 4.3 | 5.75 | 10 | 750 - 945 | 900-1135 |
| 3.7 | 5 | 4.3 | 5.75 | 11 | 865 - 1095 | 1040-1315 |
| 3.7 | 5 | 4.3 | 5.75 | 12 | 940 - 1190 | 1125-1425 |

NOTE - Using total air volume and system static pressure requirements determine from blower performance tables rev/min and motor output required. Maximum usable output of motors furnished are shown. If motors of comparable output are used, be sure to keep within the service factor limitations outlined on the motor nameplate.

NOTE - Units equipped with MSAV® (Multi-Stage Air Volume) option are limited to a motor service factor of 1.0.

POWER EXHAUST FAN PERFORMANCE

| Return Air System Static Pressure | | Air Volume Exhausted | |
|-----------------------------------|----------|----------------------|------|
| Pa | in. w.g. | L/s | cfm |
| 0 | 0 | 1498 | 3175 |
| 12 | 0.05 | 1394 | 2955 |
| 25 | 0.10 | 1267 | 2685 |
| 37 | 0.15 | 1137 | 2410 |
| 50 | 0.20 | 1022 | 2165 |
| 62 | 0.25 | 906 | 1920 |
| 75 | 0.30 | 670 | 1420 |
| 87 | 0.35 | 566 | 1200 |

FACTORY INSTALLED OPTIONS/FIELD INSTALLED ACCESSORY AIR RESISTANCE - in. w.g.

| Air Volume cfm | Wet Indoor Coil | | Gas Heat Exchanger | | | Economizer | Filters | | Return Air Adaptor Plate |
|----------------|-----------------|----------|--------------------|-------------|-----------|------------|---------|---------|--------------------------|
| | 092, 102 | 120, 150 | Standard Heat | Medium Heat | High Heat | | MERV 8 | MERV 13 | |
| 1750 | 0.04 | 0.04 | 0.06 | 0.02 | 0.02 | 0.05 | 0.01 | 0.03 | 0.00 |
| 2000 | 0.05 | 0.05 | 0.07 | 0.05 | 0.06 | 0.06 | 0.01 | 0.03 | 0.00 |
| 2250 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.01 | 0.04 | 0.00 |
| 2500 | 0.07 | 0.07 | 0.09 | 0.10 | 0.11 | 0.11 | 0.01 | 0.05 | 0.00 |
| 2750 | 0.08 | 0.08 | 0.09 | 0.11 | 0.12 | 0.12 | 0.02 | 0.05 | 0.00 |
| 3000 | 0.10 | 0.09 | 0.11 | 0.12 | 0.13 | 0.13 | 0.02 | 0.06 | 0.02 |
| 3250 | 0.11 | 0.10 | 0.12 | 0.15 | 0.16 | 0.15 | 0.02 | 0.06 | 0.02 |
| 3500 | 0.12 | 0.11 | 0.12 | 0.16 | 0.17 | 0.15 | 0.03 | 0.07 | 0.04 |
| 3750 | 0.14 | 0.13 | 0.14 | 0.19 | 0.20 | 0.15 | 0.03 | 0.08 | 0.07 |
| 4000 | 0.15 | 0.14 | 0.14 | 0.21 | 0.22 | 0.19 | 0.04 | 0.08 | 0.09 |
| 4250 | 0.17 | 0.15 | 0.14 | 0.24 | 0.28 | 0.19 | 0.04 | 0.09 | 0.11 |
| 4500 | 0.19 | 0.17 | 0.15 | 0.26 | 0.32 | 0.22 | 0.04 | 0.09 | 0.12 |
| 4750 | 0.20 | 0.18 | 0.16 | 0.29 | 0.37 | 0.25 | 0.05 | 0.10 | 0.16 |
| 5000 | 0.22 | 0.20 | 0.16 | 0.34 | 0.43 | 0.29 | 0.06 | 0.10 | 0.18 |
| 5250 | 0.24 | 0.22 | 0.16 | 0.37 | 0.47 | 0.32 | 0.06 | 0.11 | 0.19 |
| 5500 | 0.25 | 0.23 | 0.18 | 0.44 | 0.54 | 0.34 | 0.07 | 0.12 | 0.22 |
| 5750 | 0.27 | 0.25 | 0.19 | 0.49 | 0.59 | 0.45 | 0.07 | 0.12 | 0.25 |
| 6000 | 0.29 | 0.27 | 0.20 | 0.54 | 0.64 | 0.52 | 0.08 | 0.13 | 0.27 |

OUTDOOR SOUND DATA

| Unit Model Number | Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts - Center Frequency - Hz | | | | | | | 1 Sound Rating Number (dBA) |
|-------------------|--|-----|-----|------|------|------|------|-----------------------------|
| | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | |
| 092, 102 and 120 | 76 | 79 | 84 | 83 | 79 | 73 | 66 | 88 |
| 150 | 75 | 81 | 87 | 85 | 80 | 73 | 67 | 90 |

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

¹ Sound Rating Number according to AHRI Standard 270-95 or AHRI Standard 370-2001 (includes pure tone penalty). Sound Rating Number is the overall A-Weighted Sound Power Level, (LWA), dBA (100 Hz to 10,000 Hz).

BLOWER DATA

CEILING DIFFUSERS AIR RESISTANCE

| Unit Size | RTD11 Step-Down Diffuser | | | | | | | | FD11 Flush Diffuser | |
|------------------|--------------------------|----------|-------------|----------|---------------------|----------|-----------------------|----------|---------------------|----------|
| | Air Volume | | 2 Ends Open | | 1 Side, 2 Ends Open | | All Ends & Sides Open | | | |
| | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. | Pa | in. w.g. |
| 092 Models | 1133 | 2400 | 52 | 0.21 | 45 | 0.18 | 37 | 0.15 | 35 | 0.14 |
| | 1227 | 2600 | 60 | 0.24 | 52 | 0.21 | 45 | 0.18 | 42 | 0.17 |
| | 1321 | 2800 | 67 | 0.27 | 60 | 0.24 | 52 | 0.21 | 50 | 0.20 |
| | 1416 | 3000 | 80 | 0.32 | 72 | 0.29 | 62 | 0.25 | 62 | 0.25 |
| | 1510 | 3200 | 102 | 0.41 | 92 | 0.37 | 80 | 0.32 | 77 | 0.31 |
| | 1604 | 3400 | 124 | 0.50 | 112 | 0.45 | 97 | 0.39 | 92 | 0.37 |
| | 1699 | 3600 | 152 | 0.61 | 134 | 0.54 | 119 | 0.48 | 109 | 0.44 |
| 102 & 120 Models | 1793 | 3800 | 182 | 0.73 | 157 | 0.63 | 142 | 0.57 | 127 | 0.51 |
| | 1699 | 3600 | 90 | 0.36 | 70 | 0.28 | 57 | 0.23 | 37 | 0.15 |
| | 1793 | 3800 | 99 | 0.40 | 80 | 0.32 | 65 | 0.26 | 45 | 0.18 |
| | 1888 | 4000 | 109 | 0.44 | 90 | 0.36 | 72 | 0.29 | 52 | 0.21 |
| | 1982 | 4200 | 122 | 0.49 | 99 | 0.40 | 82 | 0.33 | 60 | 0.24 |
| | 2076 | 4400 | 134 | 0.54 | 109 | 0.44 | 92 | 0.37 | 67 | 0.27 |
| | 2171 | 4600 | 149 | 0.60 | 122 | 0.49 | 104 | 0.42 | 77 | 0.31 |
| | 2265 | 4800 | 162 | 0.65 | 132 | 0.53 | 114 | 0.46 | 87 | 0.35 |
| 150 Models | 2360 | 5000 | 172 | 0.69 | 144 | 0.58 | 124 | 0.50 | 97 | 0.39 |
| | 2454 | 5200 | 186 | 0.75 | 154 | 0.62 | 134 | 0.54 | 107 | 0.43 |
| | 1982 | 4200 | 55 | 0.22 | 47 | 0.19 | 40 | 0.16 | 25 | 0.10 |
| | 2076 | 4400 | 70 | 0.28 | 60 | 0.24 | 50 | 0.20 | 30 | 0.12 |
| | 2171 | 4600 | 85 | 0.34 | 72 | 0.29 | 60 | 0.24 | 37 | 0.15 |
| | 2265 | 4800 | 99 | 0.40 | 85 | 0.34 | 72 | 0.29 | 47 | 0.19 |
| | 2360 | 5000 | 114 | 0.46 | 97 | 0.39 | 85 | 0.34 | 57 | 0.23 |
| | 2454 | 5200 | 129 | 0.52 | 109 | 0.44 | 97 | 0.39 | 67 | 0.27 |
| | 2548 | 5400 | 144 | 0.58 | 122 | 0.49 | 107 | 0.43 | 77 | 0.31 |
| 2643 | 5600 | 159 | 0.64 | 134 | 0.54 | 117 | 0.47 | 87 | 0.35 | |
| 2737 | 5800 | 174 | 0.70 | 147 | 0.59 | 127 | 0.51 | 97 | 0.39 | |

CEILING DIFFUSER AIR THROW DATA

| Model No. | Air Volume | | ¹ Effective Throw Range | | | |
|-----------------|------------|---------|------------------------------------|---------|------------|---------|
| | | | RTD11 Step-Down | | FD11 Flush | |
| | L/s | cfm | m | ft. | m | ft. |
| 092 Models | 1227 | 2600 | 7 - 9 | 24 - 29 | 6 - 7 | 19 - 24 |
| | 1321 | 2800 | 8 - 9 | 25 - 30 | 6 - 9 | 20 - 28 |
| | 1416 | 3000 | 8 - 10 | 27 - 33 | 6 - 9 | 21 - 29 |
| | 1510 | 3200 | 9 - 11 | 28 - 35 | 7 - 9 | 22 - 29 |
| | 1604 | 3400 | 9 - 11 | 30 - 37 | 7 - 9 | 22 - 30 |
| 102, 120 Models | 1699 | 3600 | 8 - 10 | 25 - 33 | 7 - 9 | 22 - 29 |
| | 1793 | 3800 | 8 - 11 | 27 - 35 | 7 - 9 | 22 - 30 |
| | 1888 | 4000 | 9 - 11 | 29 - 37 | 7 - 10 | 24 - 33 |
| | 1982 | 4200 | 10 - 12 | 32 - 40 | 8 - 11 | 26 - 35 |
| | 2076 | 4400 | 10 - 13 | 34 - 42 | 9 - 11 | 28 - 37 |
| 150 Models | 2643 | 5600 | 12 - 15 | 39 - 49 | 9 - 11 | 28 - 37 |
| | 2737 | 5800 | 13 - 16 | 42 - 51 | 9 - 12 | 29 - 38 |
| | 2831 | 6000 | 13 - 17 | 44 - 54 | 12 - 15 | 40 - 50 |
| | 2926 | 6200 | 14 - 17 | 45 - 55 | 13 - 16 | 42 - 51 |
| | 3020 | 6400 | 14 - 17 | 46 - 55 | 13 - 16 | 43 - 52 |
| 3115 | 6600 | 14 - 17 | 47 - 56 | 14 - 17 | 45 - 56 | |

¹ Throw is the horizontal or vertical distance an air stream travels on leaving the outlet or diffuser before the maximum velocity is reduced to 15 m (50 ft.) per minute. Four sides open.

ELECTRICAL DATA

| Model No. | | KGB092S4 | | | KGA092H4 | | | KGB102S4 | | | KGA102H4 | | |
|--|--------------------------------------|----------|-----|-----|----------|-----|-----|----------|-----|-----|----------|-----|-----|
| ¹ Voltage - 50hz 3 Phase with neutral | | 380/420V | | | 380/420V | | | 380/420V | | | 380/420V | | |
| Compressor 1 | Rated Load Amps | 6.1 | | | 6.1 | | | 6 | | | 6.1 | | |
| | Locked Rotor Amps | 41 | | | 41 | | | 51 | | | 43 | | |
| Compressor 2 | Rated Load Amps | 6.1 | | | 6.1 | | | 6 | | | 6.1 | | |
| | Locked Rotor Amps | 41 | | | 41 | | | 51 | | | 43 | | |
| Outdoor Fan Motors (2) | Full Load Amps | 1.3 | | | 1.3 | | | 1.3 | | | 1.3 | | |
| | (total) | (2.6) | | | (2.6) | | | (2.6) | | | (2.6) | | |
| Power Exhaust (1) 0.25 kW (0.33 HP) | Full Load Amps | 1.3 | | | 1.3 | | | 1.3 | | | 1.3 | | |
| Indoor Blower Motor | kW | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 |
| | Full Load Amps | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 |
| ² Maximum Overcurrent Protection | Unit Only | 25 | 25 | 30 | 25 | 25 | 30 | 25 | 25 | 30 | 25 | 25 | 30 |
| | With 0.25 kW (0.33 HP) Power Exhaust | 25 | 25 | 30 | 25 | 25 | 30 | 25 | 25 | 30 | 25 | 25 | 30 |
| ³ Minimum Circuit Ampacity | Unit Only | 20 | 22 | 26 | 20 | 22 | 26 | 20 | 22 | 25 | 20 | 22 | 26 |
| | With 0.25 kW (0.33 HP) Power Exhaust | 22 | 23 | 27 | 22 | 23 | 27 | 22 | 23 | 27 | 22 | 23 | 27 |

¹ Extremes of operating range are plus and minus 10% of line voltage.

² Heating / Air Conditioning / Refrigeration (HACR) type breaker or fuse.

³ Refer to local codes to determine wire, fuse and disconnect size requirements.

ELECTRICAL DATA

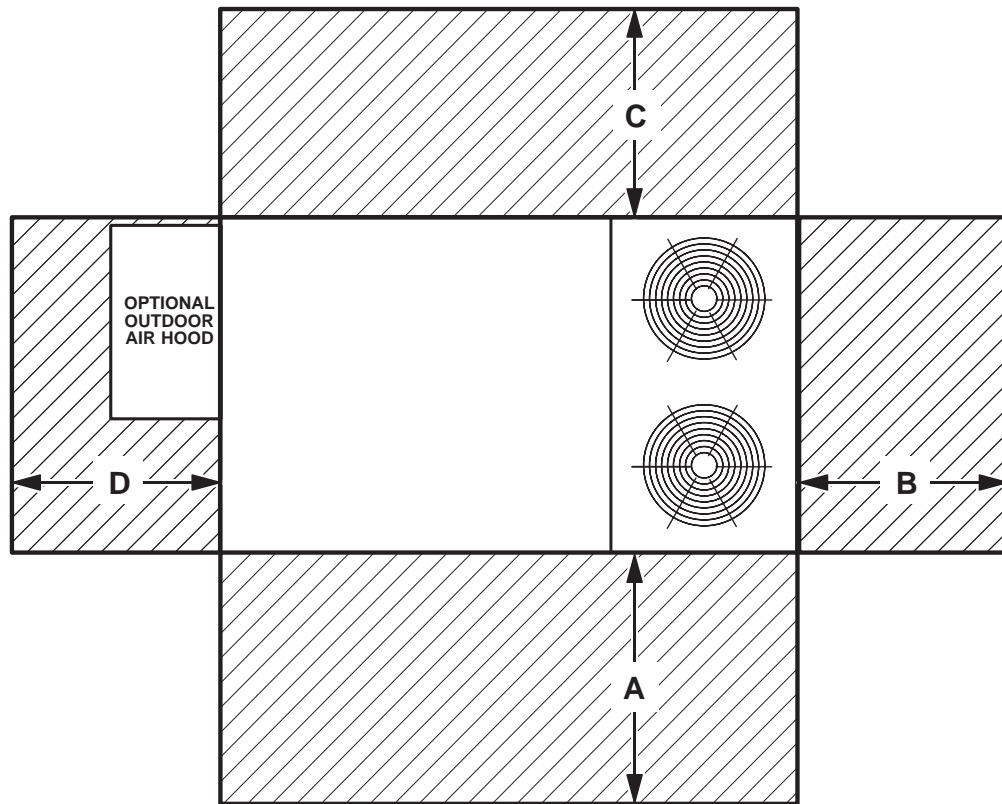
| Model No. | | KGB120S4 | | | KGA120H4 | | | KGB150S4 | | |
|--|--------------------------------------|----------|-----|-----|----------|-----|-----|----------|-----|-----|
| ¹ Voltage - 50hz 3 Phase with neutral | | 380/420V | | | 380/420V | | | 380/420V | | |
| Compressor 1 | Rated Load Amps | 8 | | | 8 | | | 8 | | |
| | Locked Rotor Amps | 59 | | | 59 | | | 67 | | |
| Compressor 2 | Rated Load Amps | 8 | | | 8 | | | 10.6 | | |
| | Locked Rotor Amps | 59 | | | 59 | | | 74 | | |
| Outdoor Fan Motors (2) | Full Load Amps | 1.3 | | | 1.3 | | | 1.5 | | |
| | (total) | (2.6) | | | (2.6) | | | (3.0) | | |
| Power Exhaust (1) 0.25 kW (0.33 HP) | Full Load Amps | 1.3 | | | 1.3 | | | 1.3 | | |
| Indoor Blower Motor | kW | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 | 1.5 | 2.2 | 3.7 |
| | Full Load Amps | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 | 3.6 | 5.3 | 8.2 |
| ² Maximum Overcurrent Protection | Unit Only | 30 | 30 | 35 | 30 | 30 | 35 | 35 | 40 | 40 |
| | With 0.25 kW (0.33 HP) Power Exhaust | 30 | 35 | 35 | 30 | 35 | 35 | 35 | 40 | 40 |
| ³ Minimum Circuit Ampacity | Unit Only | 25 | 26 | 29 | 25 | 26 | 29 | 28 | 30 | 33 |
| | With 0.25 kW (0.33 HP) Power Exhaust | 26 | 28 | 31 | 26 | 28 | 31 | 30 | 31 | 34 |

¹ Extremes of operating range are plus and minus 10% of line voltage.

² Heating / Air Conditioning / Refrigeration (HACR) type breaker or fuse.

³ Refer to local codes to determine wire, fuse and disconnect size requirements.

UNIT CLEARANCES



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

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 for clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.

WEIGHT DATA

| Model Number | Outdoor Coil | Net | | Shipping | | Outdoor Coil | Net | | Shipping | |
|----------------|--------------|-----|------|----------|------|--------------|-----|------|----------|------|
| | | kg | lbs. | kg | lbs. | | kg | lbs. | kg | lbs. |
| 092H Base Unit | Environ™ | 499 | 1100 | 538 | 1185 | --- | --- | --- | --- | --- |
| 092H Max. Unit | Environ™ | 567 | 1251 | 606 | 1336 | --- | --- | --- | --- | --- |
| 102H Base Unit | Environ™ | 502 | 1107 | 541 | 1192 | --- | --- | --- | --- | --- |
| 102H Max. Unit | Environ™ | 571 | 1258 | 609 | 1343 | --- | --- | --- | --- | --- |
| 120H Base Unit | Environ™ | 518 | 1142 | 557 | 1227 | --- | --- | --- | --- | --- |
| 120H Max. Unit | Environ™ | 586 | 1293 | 625 | 1378 | --- | --- | --- | --- | --- |
| 092S Base Unit | Environ™ | 416 | 918 | 455 | 1003 | Fin/Tube | 442 | 975 | 480 | 1060 |
| 092S Max. Unit | Environ™ | 485 | 1069 | 523 | 1154 | Fin/Tube | 510 | 1126 | 549 | 1211 |
| 102S Base Unit | Environ™ | 425 | 938 | 464 | 1023 | Fin/Tube | 451 | 995 | 489 | 1080 |
| 102S Max. Unit | Environ™ | 494 | 1089 | 533 | 1174 | Fin/Tube | 519 | 1146 | 558 | 1231 |
| 120S Base Unit | Environ™ | 454 | 1002 | 493 | 1087 | Fin/Tube | 486 | 1073 | 525 | 1158 |
| 120S Max. Unit | Environ™ | 523 | 1153 | 561 | 1238 | Fin/Tube | 555 | 1224 | 593 | 1309 |
| 150S Base Unit | --- | --- | --- | --- | --- | Fin/Tube | 513 | 1132 | 551 | 1217 |
| 150S Max. Unit | --- | --- | --- | --- | --- | Fin/Tube | 581 | 1282 | 619 | 1367 |

NOTE - Max. Unit is the unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories EXTERNAL to unit.

OPTIONS / ACCESSORIES

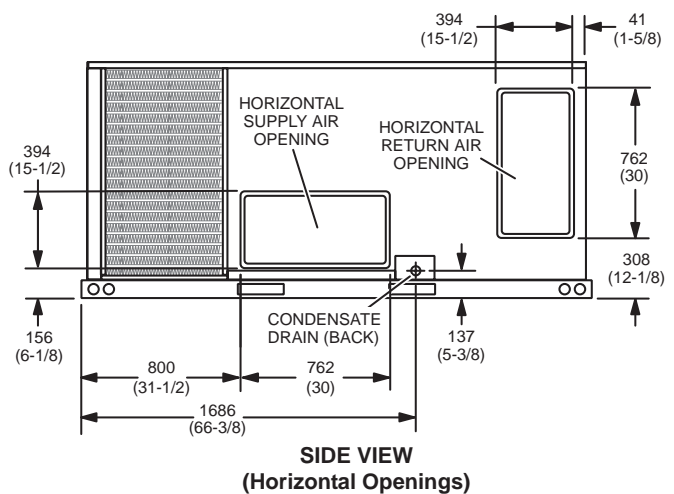
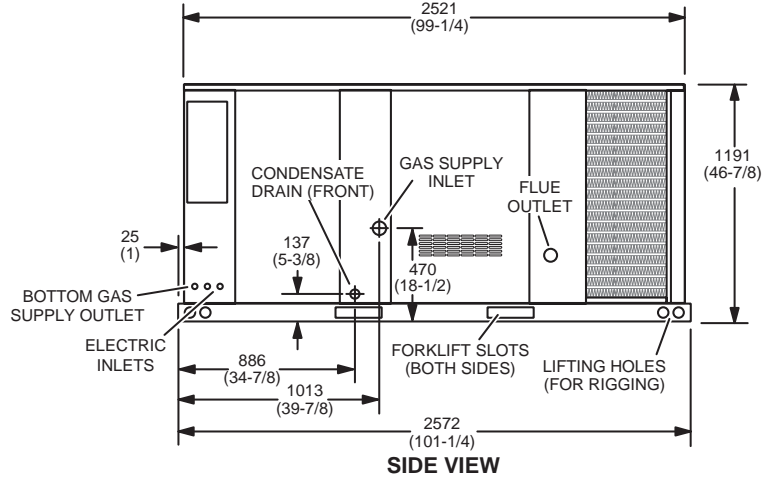
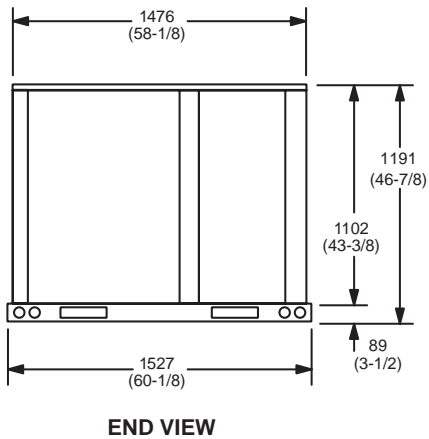
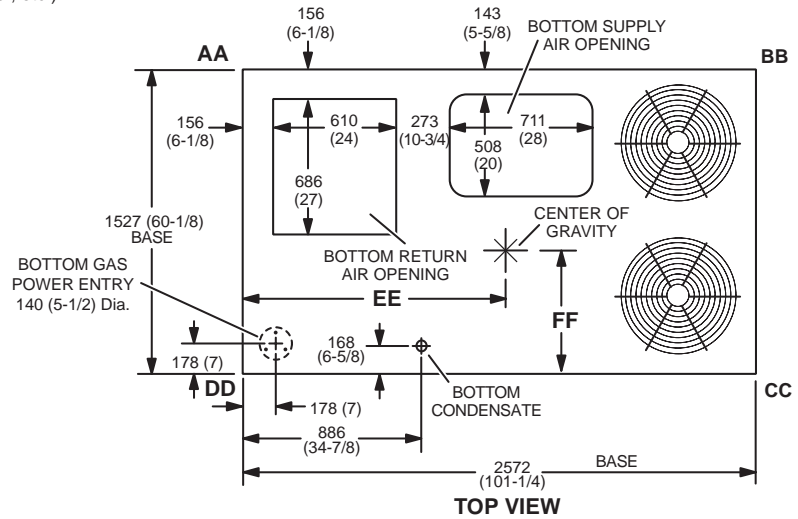
| Model Number | Shipping Weight | |
|---|-----------------|------|
| | kg | lbs. |
| ECONOMIZER / OUTDOOR AIR / EXHAUST | | |
| Economizer | | |
| Economizer Dampers | 27 | 60 |
| Barometric Relief Dampers (downflow) | 4 | 8 |
| Barometric Relief Damper Hood (downflow) | 11 | 25 |
| Outdoor Air Hood (downflow) | 10 | 23 |
| Outdoor Air Dampers | | |
| Outdoor Air Damper Section (downflow) - Automatic | 23 | 51 |
| Outdoor Air Damper Section (downflow) - Manual | 18 | 39 |
| Power Exhaust | 14 | 31 |
| GAS HEAT EXCHANGER (NET WEIGHT) | | |
| Medium Heat (adder over standard heat) | 4 | 9 |
| High Heat (adder over standard heat) | 15 | 32 |
| MSAV (MULTI-STAGE AIR VOLUME) SUPPLY AIR BLOWER OPTION | | |
| Variable Frequency Drive (VFD) and associated components | 5 | 10 |
| ROOF CURBS | | |
| Hybrid Roof Curbs, Downflow | | |
| 203 mm height | 27 | 60 |
| 356 mm height | 39 | 85 |
| 457 mm height | 45 | 100 |
| 610 mm height | 57 | 125 |
| Adjustable Pitch Curb | | |
| 356 mm height | 82 | 191 |
| CEILING DIFFUSERS | | |
| Step-Down | | |
| RTD11-95S | 54 | 118 |
| RTD11-135S | 61 | 135 |
| RTD11-185S | 76 | 168 |
| Flush | | |
| FD11-95S | 54 | 118 |
| FD11-135S | 61 | 135 |
| FD11-185S | 76 | 168 |
| Transitions | | |
| C1DIFF30B-1 | 14 | 30 |
| C1DIFF31B-1 | 15 | 32 |
| C1DIFF32B-1 | 16 | 36 |
| PACKAGING | | |
| LTL Packaging (less than truck load) | 48 | 105 |

DIMENSIONS - UNIT

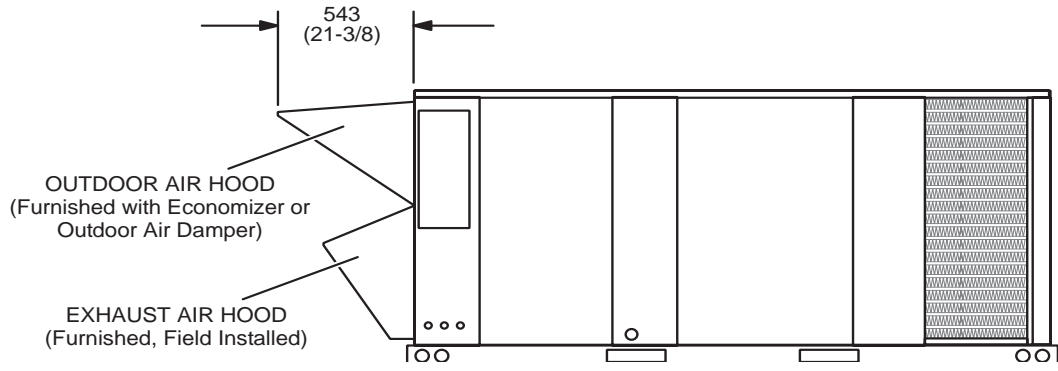
| Model No. | CORNER WEIGHTS | | | | | | | | | | | | CENTER OF GRAVITY | | | | | | | | | | | |
|-----------|----------------|------|------|------|------|------|------|------|------|------|------|------|-------------------|------|------|------|------|--------|------|--------|------|--------|------|--------|
| | AA | | | | BB | | | | CC | | | | DD | | | | EE | | | | FF | | | |
| | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | |
| | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | mm | in. | mm | in. | mm | in. | mm | in. |
| 092S | 107 | 236 | 147 | 325 | 91 | 201 | 120 | 264 | 99 | 218 | 125 | 278 | 120 | 264 | 160 | 353 | 1130 | 44-1/2 | 1105 | 43-1/2 | 622 | 24-1/2 | 648 | 25-1/2 |
| 092H | 128 | 282 | 149 | 328 | 109 | 241 | 123 | 272 | 118 | 261 | 131 | 290 | 143 | 316 | 164 | 361 | 1130 | 44-1/2 | 1105 | 43-1/2 | 622 | 24-1/2 | 648 | 25-1/2 |
| 102S | 109 | 241 | 150 | 332 | 93 | 205 | 122 | 269 | 101 | 222 | 127 | 282 | 122 | 270 | 163 | 359 | 1130 | 44-1/2 | 1105 | 43-1/2 | 622 | 24-1/2 | 648 | 25-1/2 |
| 102H | 129 | 284 | 150 | 330 | 110 | 242 | 124 | 273 | 119 | 263 | 132 | 291 | 144 | 318 | 165 | 363 | 1130 | 44-1/2 | 1105 | 43-1/2 | 622 | 24-1/2 | 648 | 25-1/2 |
| 120S | 116 | 255 | 155 | 344 | 97 | 215 | 124 | 276 | 105 | 231 | 132 | 292 | 129 | 285 | 171 | 378 | 1118 | 44 | 1092 | 43 | 629 | 24-3/4 | 654 | 25-3/4 |
| 120H | 134 | 295 | 155 | 342 | 113 | 249 | 127 | 279 | 122 | 268 | 134 | 296 | 150 | 330 | 170 | 375 | 1118 | 44 | 1092 | 43 | 629 | 24-3/4 | 654 | 25-3/4 |
| 150S | 125 | 275 | 146 | 321 | 105 | 232 | 119 | 263 | 115 | 253 | 128 | 282 | 142 | 312 | 162 | 358 | 1118 | 44 | 1092 | 43 | 610 | 24 | 635 | 25 |

Base Unit - The unit with NO OPTIONS.

Max. Unit - The unit with ALL OPTIONS Installed. (Economizer, etc.)



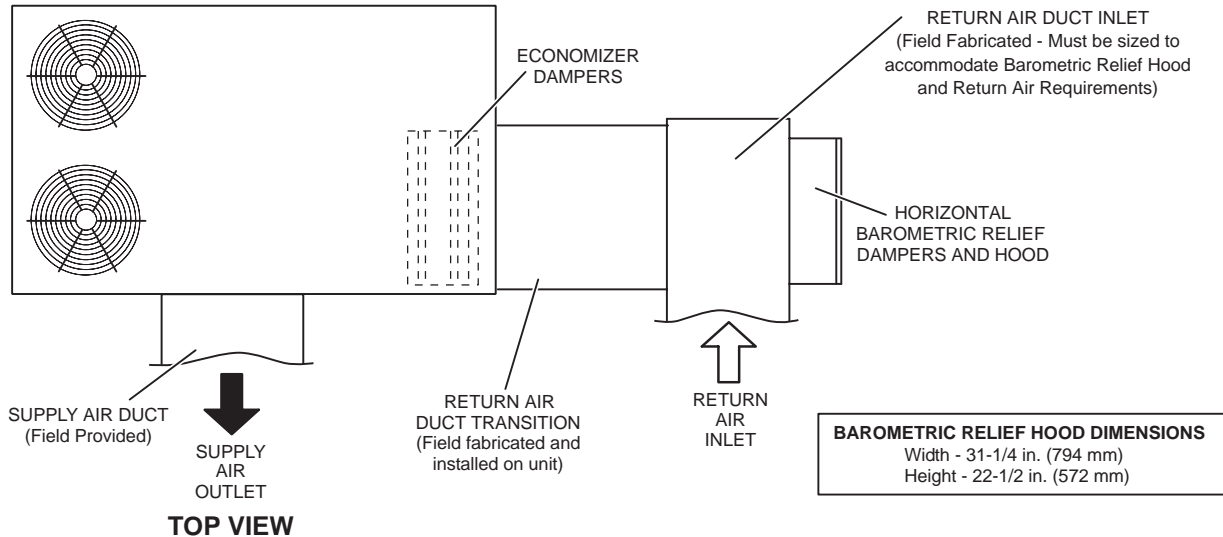
OUTDOOR AIR HOOD DETAIL



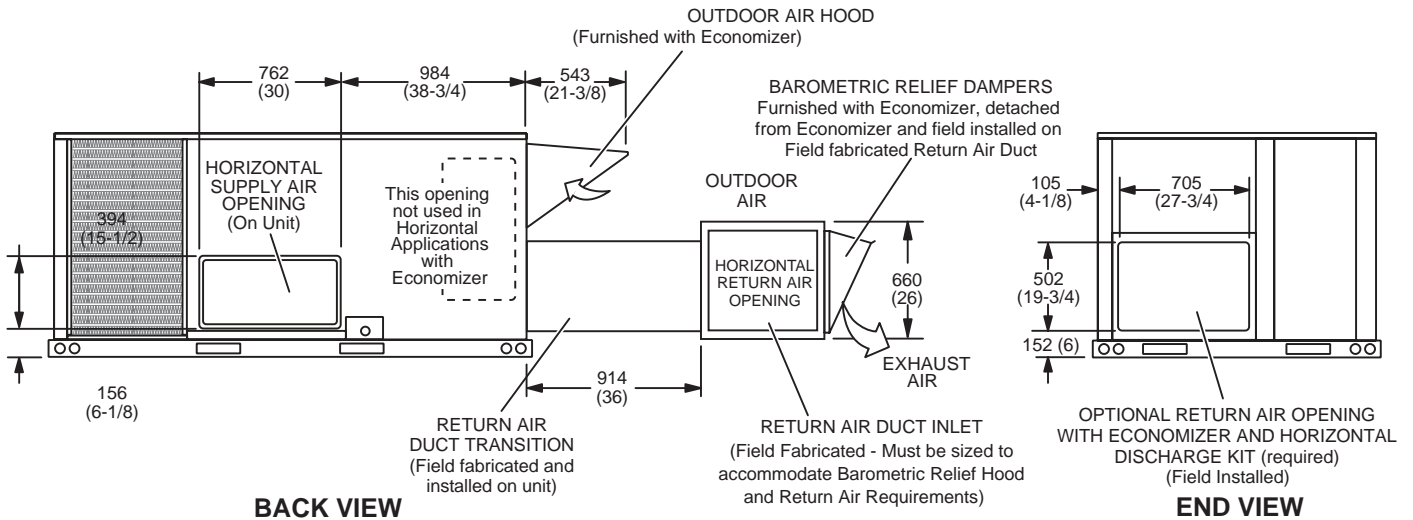
DIMENSIONS - ACCESSORIES

HORIZONTAL ECONOMIZER APPLICATION

(With Furnished Barometric Relief Dampers and Optional Horizontal Discharge Kit - Required)



TOP VIEW



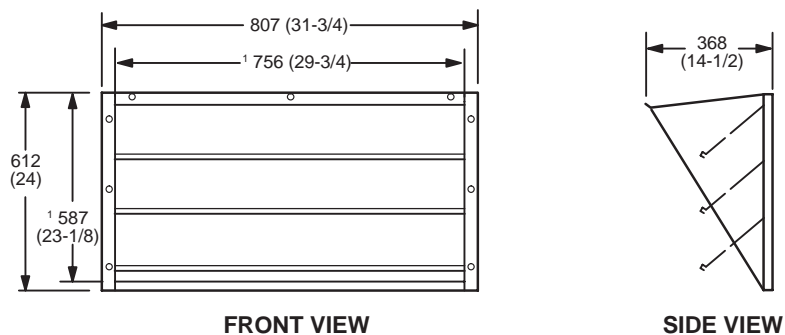
BACK VIEW

END VIEW

NOTE - Return Air Duct and Transition must be supported.

BAROMETRIC RELIEF DAMPERS (Furnished with Economizer)

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



FRONT VIEW

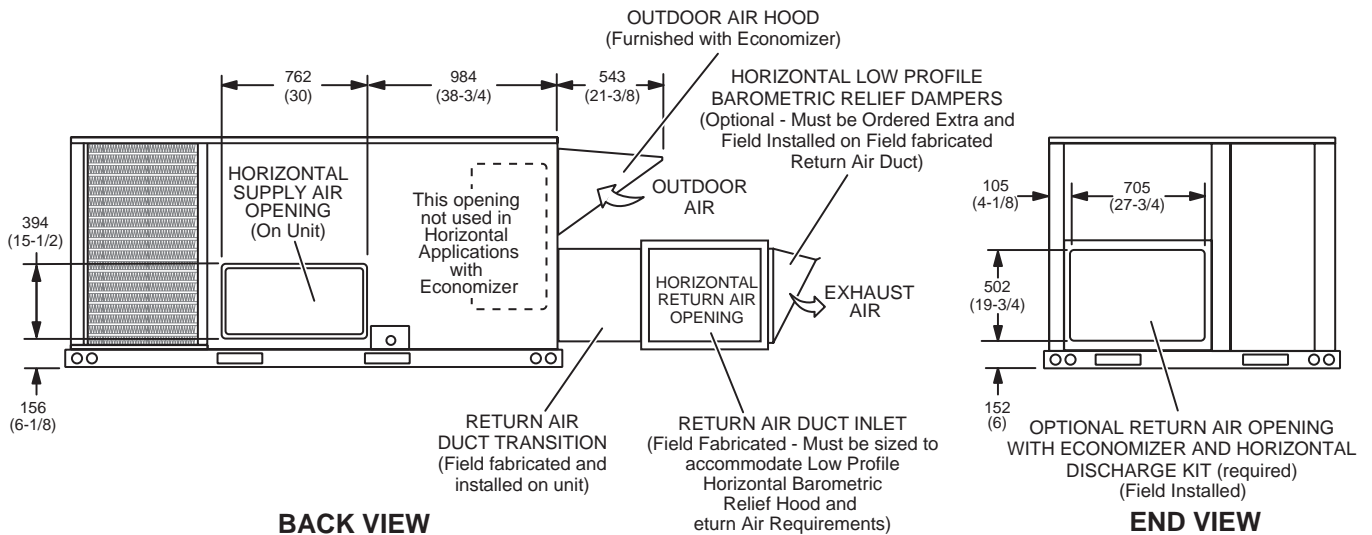
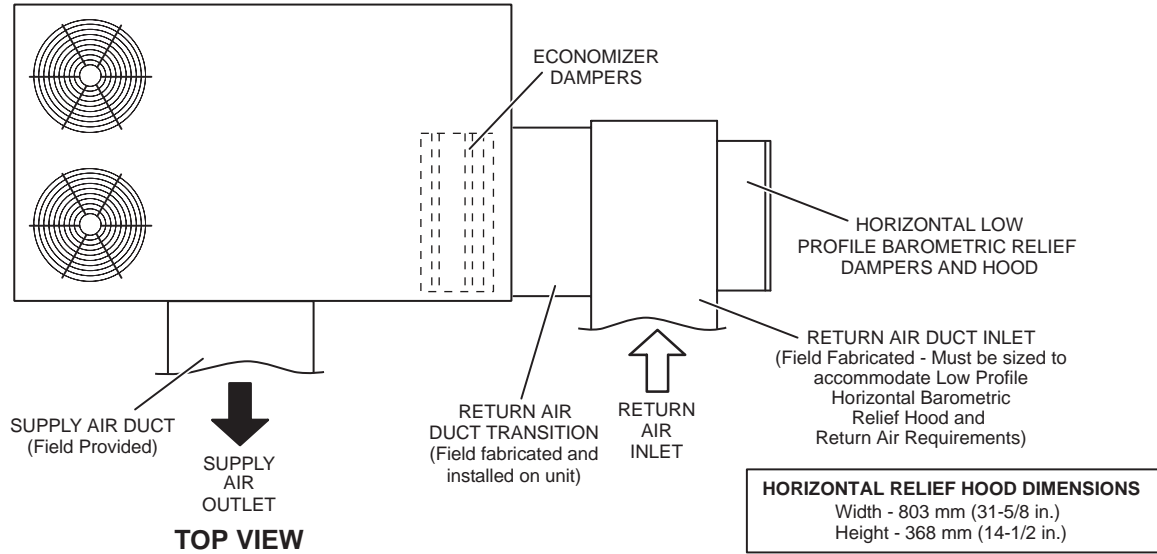
SIDE VIEW

¹ NOTE - Opening size required in return air duct.

DIMENSIONS - ACCESSORIES

HORIZONTAL ECONOMIZER APPLICATION

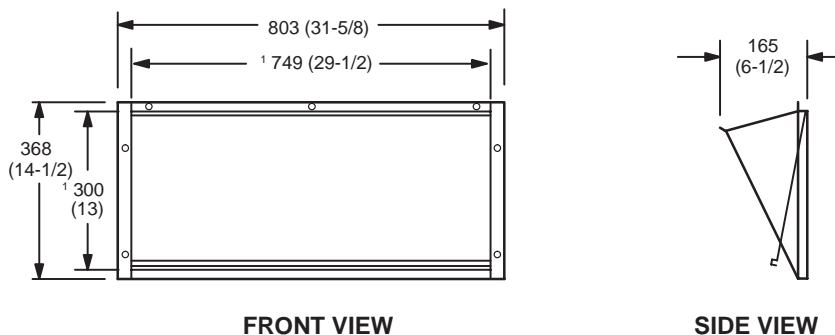
(with Optional Low Profile Horizontal Barometric Relief Dampers and Horizontal Discharge Kit - Required)



NOTE - Return Air Duct and Transition must be supported.

HORIZONTAL LOW PROFILE BAROMETRIC RELIEF DAMPERS

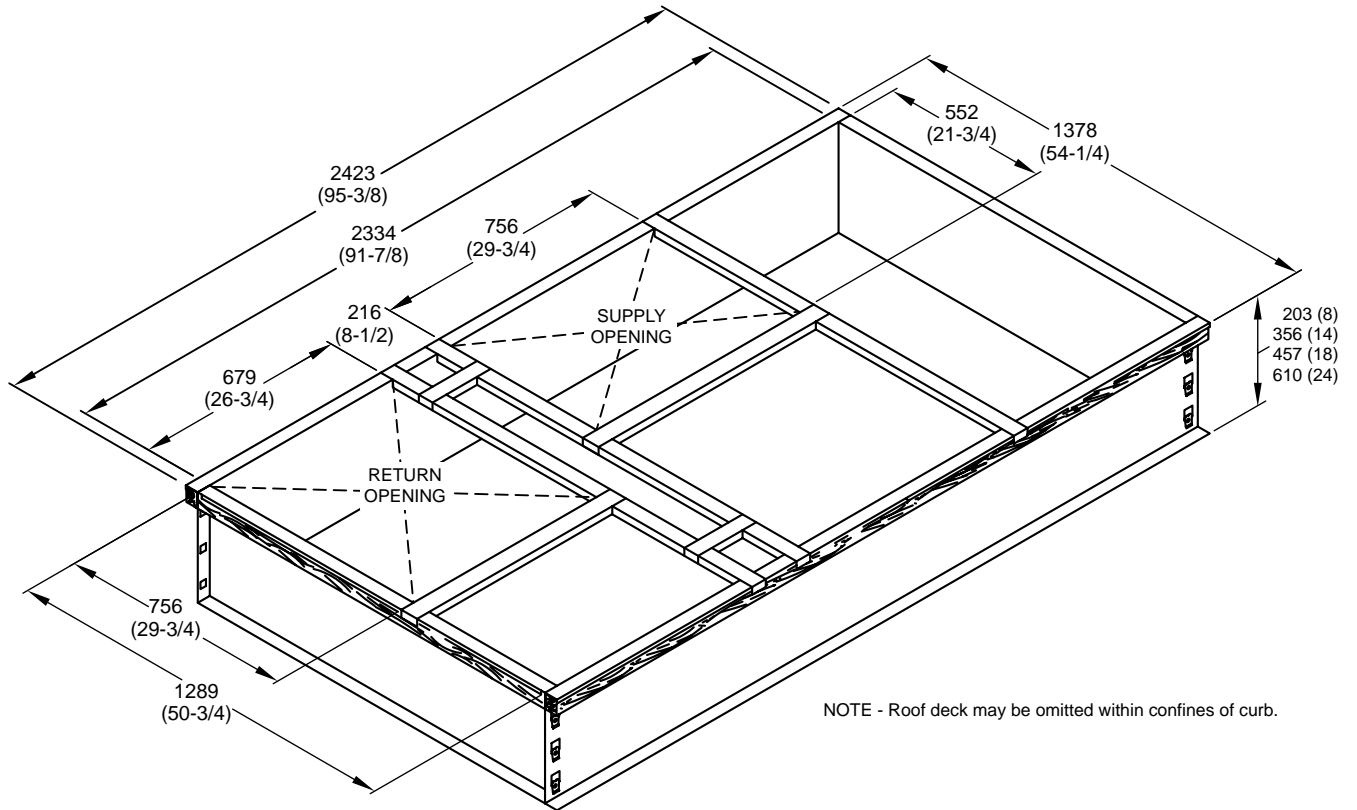
(Field installed in horizontal return air duct adjacent to unit)



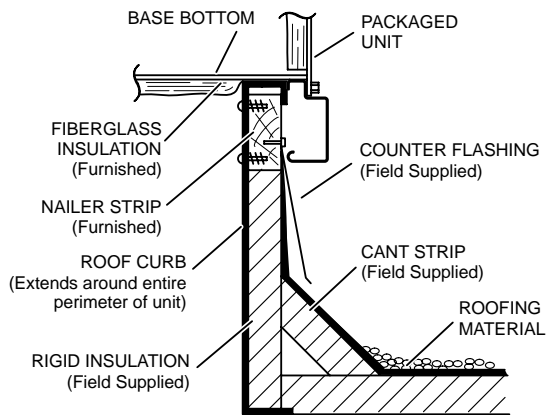
¹ NOTE - Opening size required in return air duct.

DIMENSIONS - ACCESSORIES

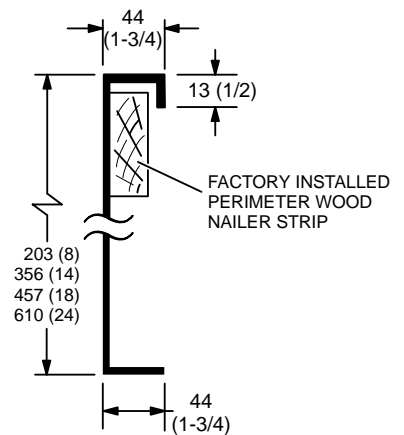
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



TYPICAL FLASHING DETAIL FOR ROOF CURB

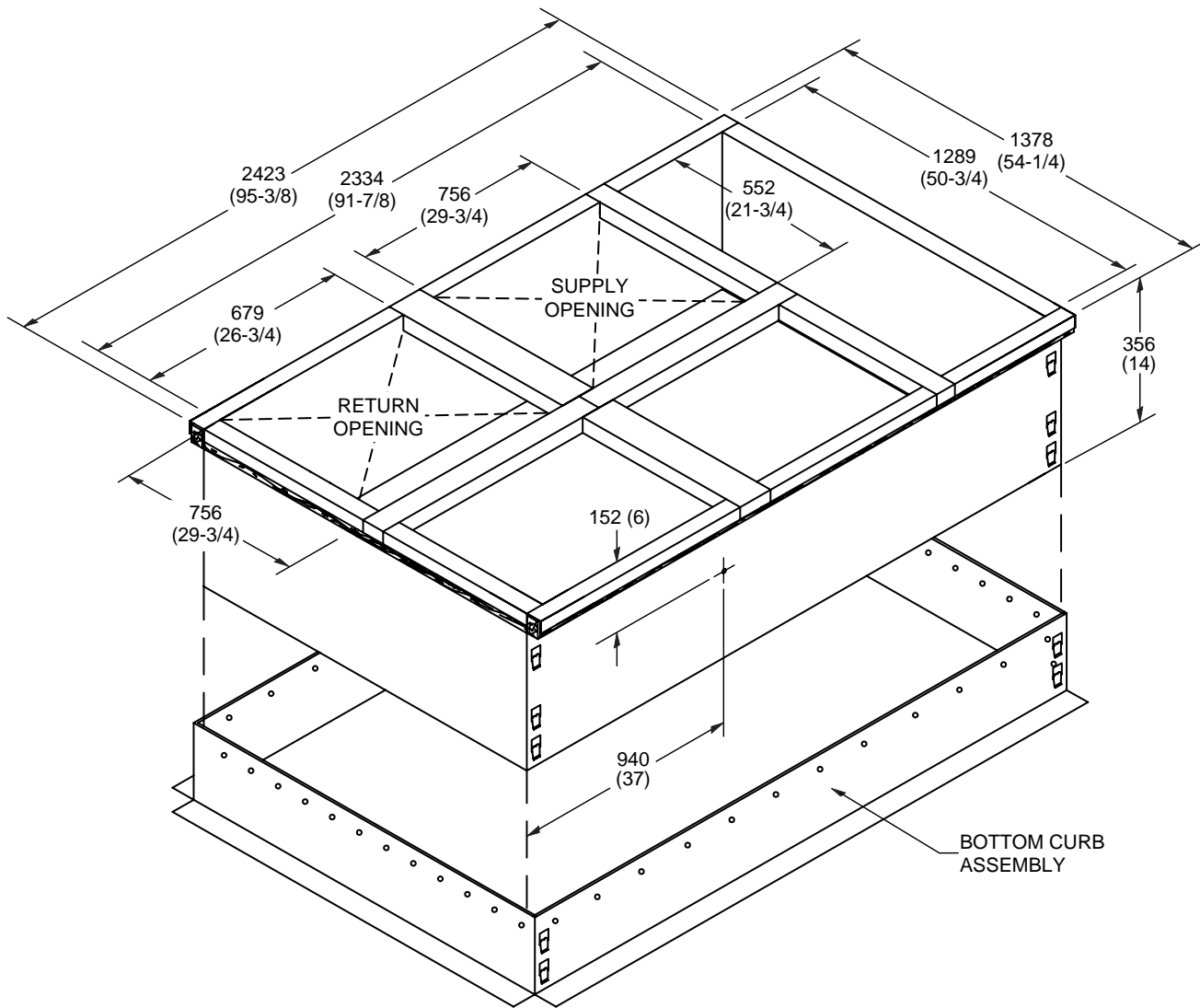


DETAIL ROOF CURB



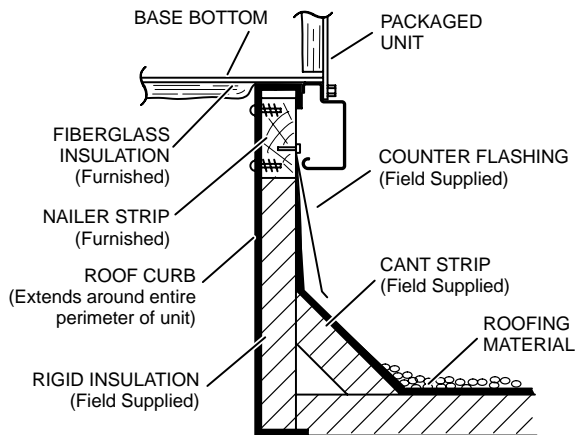
DIMENSIONS - ACCESSORIES

ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

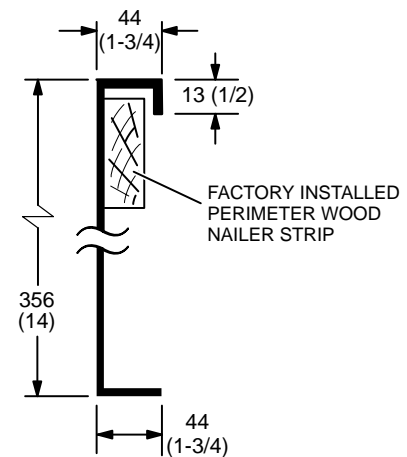


NOTE - Maximum slope pitch is 19 mm per 305 mm (3/4 in. per 1 foot) in any one direction.

TYPICAL FLASHING DETAIL FOR ROOF CURB



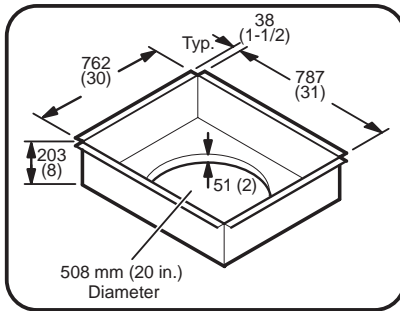
DETAIL ROOF CURB



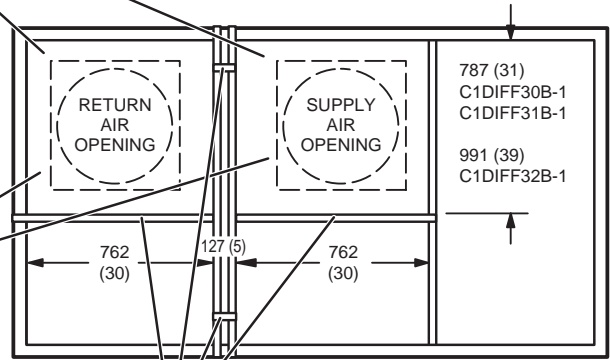
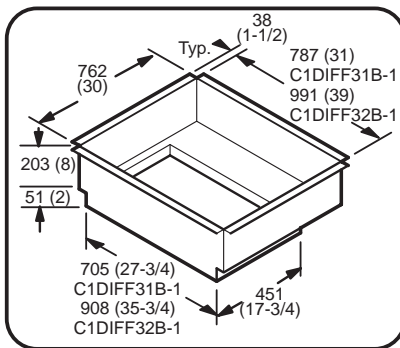
DIMENSIONS - ACCESSORIES

ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS

C1DIFF30B-1 ROUND TRANSITIONS
(for 092 models)



C1DIFF31B-1 & C1DIFF32B-1 RECTANGULAR TRANSITIONS
(for 102 thru 150 models)



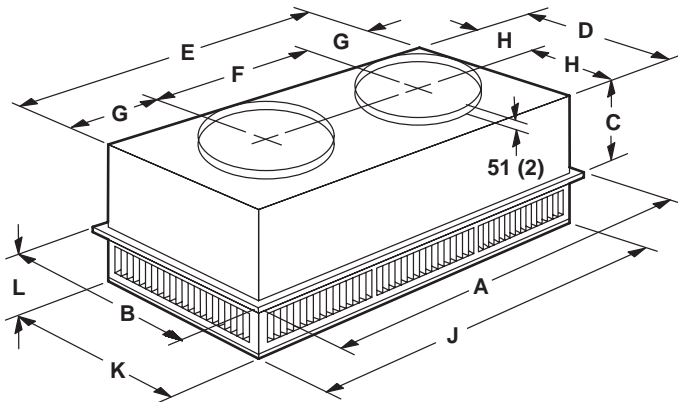
TOP VIEW

NOTE - These four supports are furnished with the transitions to replace supports furnished with curb for proper transition spacing.

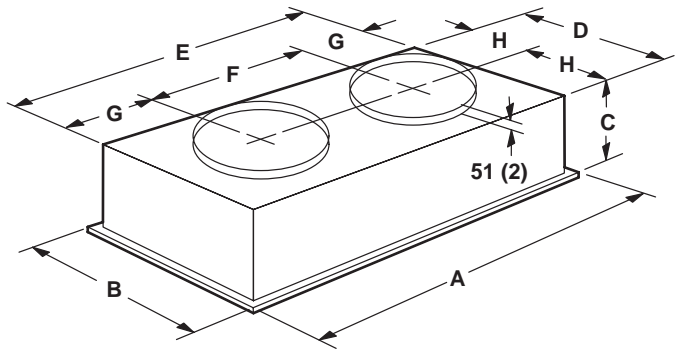
DIMENSIONS - ACCESSORIES

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



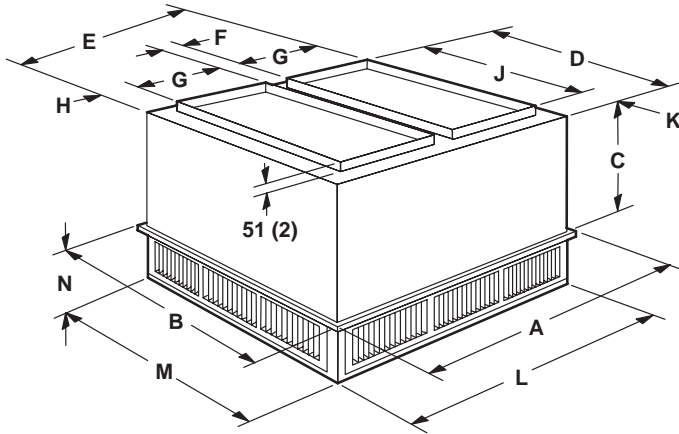
| Model Number | | RTD11-95S |
|--------------|-----|-----------|
| A | mm | 1159 |
| | in. | 47-5/8 |
| B | mm | 752 |
| | in. | 29-5/8 |
| C | mm | 365 |
| | in. | 14-3/8 |
| D | mm | 699 |
| | in. | 27-1/2 |
| E | mm | 1158 |
| | in. | 45-1/2 |
| F | mm | 572 |
| | in. | 22-1/2 |
| G | mm | 292 |
| | in. | 11-1/2 |
| H | mm | 349 |
| | in. | 13-3/4 |
| J | mm | 1156 |
| | in. | 45-1/2 |
| K | mm | 699 |
| | in. | 27-1/2 |
| L | mm | 206 |
| | in. | 8-1/8 |
| Duct Size | mm | 508 round |
| | in. | 20 round |

| Model Number | | FD11-95S |
|--------------|-----|-----------|
| A | mm | 1159 |
| | in. | 47-5/8 |
| B | mm | 752 |
| | in. | 29-5/8 |
| C | mm | 422 |
| | in. | 16-5/8 |
| D | mm | 686 |
| | in. | 27 |
| E | mm | 1143 |
| | in. | 45 |
| F | mm | 22-1/2 |
| | in. | 572 |
| G | mm | 286 |
| | in. | 11-1/4 |
| H | mm | 343 |
| | in. | 13-1/2 |
| Duct Size | mm | 508 round |
| | in. | 20 round |

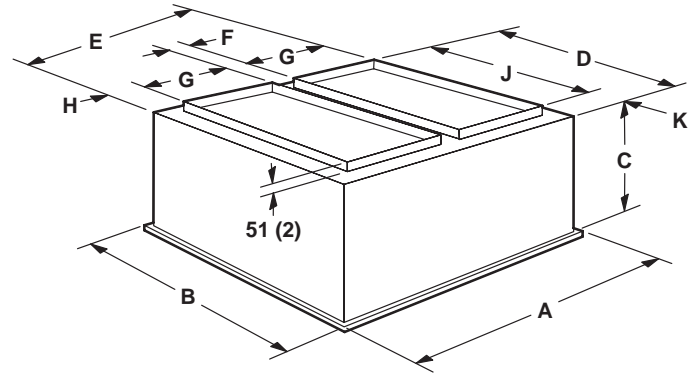
DIMENSIONS - ACCESSORIES

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER



| Model Number | | RTD11-135S | RTD11-185S |
|--------------|-----|------------|------------|
| A | mm | 1210 | 1210 |
| | in. | 47-5/8 | 47-5/8 |
| B | mm | 905 | 1210 |
| | in. | 35-5/8 | 47-5/8 |
| C | mm | 524 | 625 |
| | in. | 20-5/8 | 24-5/8 |
| D | mm | 851 | 1156 |
| | in. | 33-1/2 | 45-1/2 |
| E | mm | 1156 | 1156 |
| | in. | 45-1/2 | 45-1/2 |
| F | mm | 114 | 114 |
| | in. | 4-1/2 | 4-1/2 |
| G | mm | 457 | 457 |
| | in. | 18 | 18 |
| H | mm | 64 | 64 |
| | in. | 2-1/2 | 2-1/2 |
| J | mm | 711 | 914 |
| | in. | 28 | 36 |
| K | mm | 70 | 121 |
| | in. | 2-3/4 | 4-3/4 |
| L | mm | 1156 | 1156 |
| | in. | 45-1/2 | 45-1/2 |
| M | mm | 851 | 1156 |
| | in. | 33-1/2 | 45-1/2 |
| N | mm | 232 | 257 |
| | in. | 9-1/8 | 10-1/8 |
| Duct Size | mm | 457 x 711 | 457 x 914 |
| | in. | 18 x 28 | 18 x 36 |

| Model Number | | FD11-135S | FD11-185S |
|--------------|-----|-----------|-----------|
| A | mm | 1210 | 1210 |
| | in. | 47-5/8 | 47-5/8 |
| B | mm | 905 | 1210 |
| | in. | 35-5/8 | 47-5/8 |
| C | mm | 591 | 743 |
| | in. | 23-1/4 | 29-1/4 |
| D | mm | 838 | 1143 |
| | in. | 33 | 45 |
| E | mm | 1143 | 1143 |
| | in. | 45 | 45 |
| F | mm | 112 | 112 |
| | in. | 4-1/2 | 4-1/2 |
| G | mm | 457 | 457 |
| | in. | 18 | 18 |
| H | mm | 57 | 57 |
| | in. | 2-1/4 | 2-1/4 |
| J | mm | 711 | 914 |
| | in. | 28 | 36 |
| K | mm | 64 | 114 |
| | in. | 2-1/2 | 4-1/2 |
| Duct Size | mm | 457 x 711 | 457 x 914 |
| | in. | 18 x 28 | 18 x 36 |

REVISIONS

| Section | Description |
|---|------------------------|
| Optional Conventional Temperature Control Systems | Added BACnet controls. |



Visit us at www.lennox.com

For the latest technical information, www.lennoxcommercial.com

Contact us at 1-800-4-LENNOX

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

©2020 Lennox Industries, Inc.