

LGT

ENLIGHT ROOFTOP UNITS

High Efficiency | Lennox® CORE Controller | Environ™ Coil | **R-454B** | 60Hz

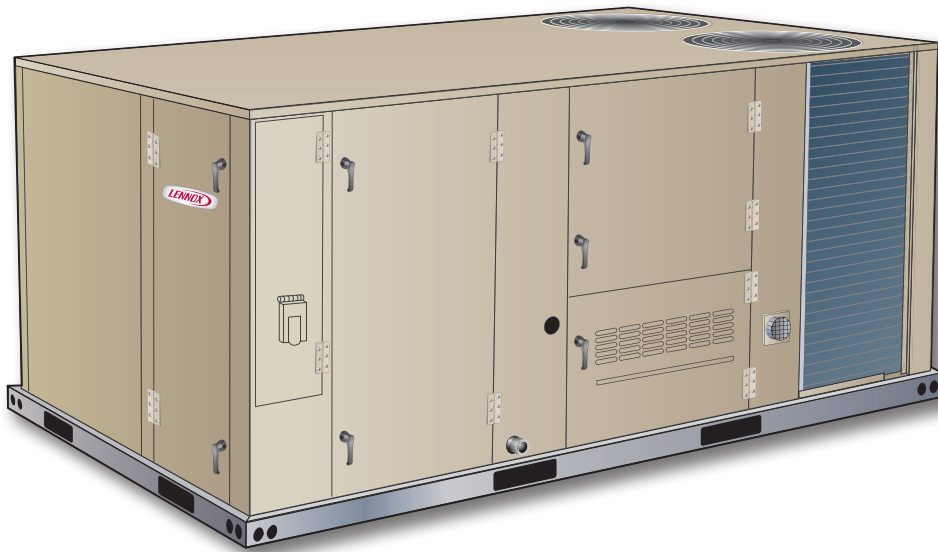
**COMMERCIAL
PRODUCT SPECIFICATIONS (EHB)**



7.5 to 12.5 Tons

Net Cooling Capacity | 92,000 to 138,000 Btuh
Gas Input Heat Capacity | 85,000 to 240,000 Btuh

ENLIGHT



SMART WIRE™ SYSTEM



MODEL NUMBER IDENTIFICATION

LGT120H5ES1Y

Brand
L = Lennox®

Unit Type
G = Packaged Gas Heat w/ Electric Cooling

Family
T = Enlight Series

Nominal Cooling Capacity - Tons
092 = 7.5 Tons
102 = 8.5 Tons
120 = 10 Tons
150 = 12.5 Tons

Cooling Efficiency
H = High Efficiency

Voltage
Y = 208/230V-3 phase-60Hz
G = 460V-3 phase-60Hz
J = 575V-3 phase-60Hz

Minor Design Sequence
1 = 1st Revision

Heating Type
Two-Stage
S = Standard Gas Heat, 2 Stage
M = Medium Gas Heat, 2 Stage
H = High Gas Heat, 2 Stage
Modulating
P = Standard Gas Heat, Modulating
K = Medium Gas Heat, Modulating
R = High Gas Heat, Modulating

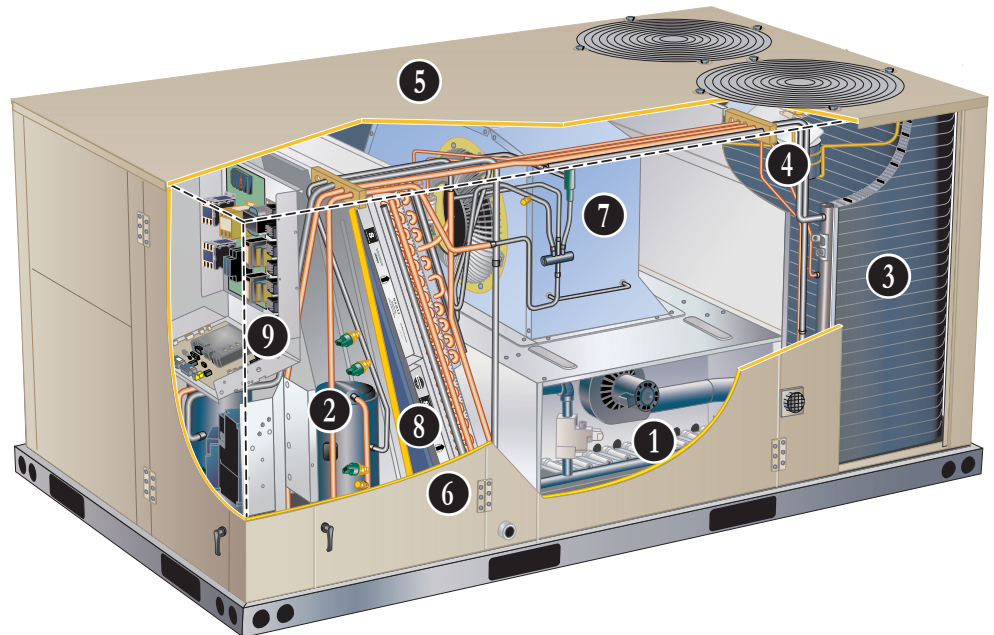
Blower Type
E = MSAV® Multi-Stage Air Volume (DirectPlus™ ECM Direct Drive)
P = VAV Variable Air Volume (DirectPlus™ ECM Direct Drive)

Refrigerant Type
5 = R-454B

FEATURE HIGHLIGHTS

Lennox' Enlight rooftop units featuring the Lennox® CORE Control System create a bright future through a highly energy-efficient and environmentally sustainable design. Comprehensive configurations meet a wide range of applications, making it the most flexible product line Lennox has to offer.

1. Heat Exchanger/Inshot Burners
2. Scroll Compressors
3. Environ™ Coil System
4. Outdoor Coil Fan Motors
5. Heavy Gauge Steel Cabinet
6. Hinged Access Panels
7. DirectPlus™ Direct Drive ECM Blower System
8. Air Filters
9. Lennox® CORE Control System



CONTENTS

| | |
|--|----|
| Approvals And Warranty | 3 |
| Blower Data | 32 |
| Dimensions | 39 |
| - Accessories | 40 |
| - Unit | 39 |
| Electrical Data | 35 |
| Features And Benefits | 3 |
| High Altitude Derate | 25 |
| Humiditrol® Dehumidification System Option | 12 |
| Humiditrol® Dehumidification System Ratings | 30 |
| Model Number Identification. | 1 |
| Optional Conventional Temperature Control Systems. | 13 |
| Options / Accessories | 20 |
| Outdoor Sound Data | 37 |
| Ratings | 26 |
| Sequence Of Operation. | 15 |
| Specifications | 23 |
| - Gas Heat | 25 |
| Unit Clearances | 37 |
| Weight Data | 38 |
| - Unit | 38 |

APPROVALS AND WARRANTY

APPROVALS

- All models are AHRI Standard 340/360-2023 certified
- ETL and CSA listed
- All models are ASHRAE 90.1-2025 compliant
- All models meet DOE 2023 energy efficiency standards
- All models are listed to UL 60335-1 and UL 60335-2-40 and meet the Refrigerant Detection and Dissipation Requirements
- Components are bonded for grounding to meet safety standards for servicing required by ETL, NEC and CEC
- All models meet California Code of Regulations, Title 24 and ASHRAE 90.1-2025 Section 6.4.3.10 requirements for staged airflow
- All models have been sound tested in accordance with test conditions included in AHRI Standard 270 or 370
- All models have HCAI (formerly OSHPD) OSP and Special Seismic Certification (Number: [OSP-0596](#)), and meet 2021 International Building Code (IBC), 2022 California Building Code (CBC) ASCE 7, and ICC-ES AC156
- All models have FSA approval and are compliant with standard ASCE 7-22 (ASD) and the Florida Building Code Eighth Edition (2023)
- Units are charged with virgin refrigerant to comply with NYCRR Part 494
- All models are fully charged and run tested to verify unit operation and functionality

WARRANTY

- Aluminized Heat Exchanger - Limited ten years
- Stainless Steel Heat Exchanger (optional) - Limited fifteen years
- Compressors - Limited five years
- Environ™ Coil System - Limited three years
- Lennox® CORE Unit Controller - Limited three years
- High Performance Economizers (optional) - Limited five years
- All other covered components - Limited one year

FEATURES AND BENEFITS

HEATING SYSTEM

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

Heat Exchanger

- Tubular construction, aluminized steel
- Life-cycle tested

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

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

Two-Stage Gas Heat

- Two-Stage gas valve adjusts heat for low and high output

NOTE - Modulating Gas Heat may be ordered as a factory installed option. See Options/Accessories table.

FEATURES AND BENEFITS

GAS HEATING SYSTEM (Continued)

Required Selections

Gas Input Choice - Order one:

- Standard Gas Heat - 84,500-130,000 Btuh
- Medium Gas Heat - 117,000-180,000 Btuh
- High Gas Heat - 156,000-240,000 Btuh

Options/Accessories

Factory Installed

Modulating Gas Heat

- Modulating gas valve adjusts heat output in real time based on demand for smoother temperature control
- Includes two factory-installed sensors:
 - Mixed Air Sensor
 - Indirect Sensing Discharge Air Temperature Sensor

NOTE - Modulating Gas Heat for Horizontal Applications requires a Remote Discharge Air Temperature Sensor / Fresh Air Tempering. Sensor is shipped with the unit for field installation if unit is configured at the factory. Sensor must be ordered separately for field installation if unit is not factory configured.

Stainless Steel Heat Exchanger

- Required if mixed air temperature is below 45°F

Field Installed

Bottom Gas Piping Entry

- Allows bottom gas entry through the curb or unit

Combustion Air Intake Extensions

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

Low Temperature Vestibule Heater

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

Options/Accessories

Field Installed

LPG/Propane Kit

- Conversion kit to field change over units from Natural Gas to LPG/Propane
- Includes gas valve conversion parts for both two-stage and modulating

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 (4 in. B-Vent) and caps are not furnished and must be field supplied. Refer to kit instructions for additional information.

COOLING SYSTEM

- Designed to maximize sensible and latent cooling performance at design conditions
- System can operate from 0°F to 125°F without any additional controls

R-454B Refrigerant

- Low GWP (Global Warming Potential)
- Zero ODP (Ozone Depletion Potential)
- Low Toxicity/Lower Flammability - A2L
- Unit is factory pre-charged

2 Compressor System

- System consists of one two-stage scroll compressor and one single-stage scroll compressor
- Resiliently mounted on rubber grommets for quiet operation

Compressor Crankcase Heaters

- Protects against refrigerant migration that can occur during low ambient operation or during extended off cycles

Thermal Expansion Valves

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

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

Low Pressure Switches

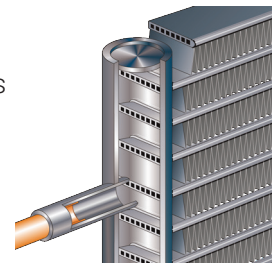
- Protects the compressors from low pressure conditions such as low refrigerant charge or low/no airflow

Indoor Coil Freeze Protection

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

3 Condenser Coil - Environ™ Coil System

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



FEATURES AND BENEFITS

COOLING SYSTEM (continued)

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
- Mounting brackets with rubber inserts secure coil to unit providing vibration dampening and corrosion protection
- Angled cabinet design protects coil from damage

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

Antimicrobial Condensate Drain Pan

- Composite pan, sloped to meet drainage requirements per ASHRAE 62.1
- Antimicrobial additive prevents growth of mold and mildew, which improves indoor air quality and reduces drain line blockage
- 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

- PVC coated fan guard furnished

Required Selections

Cooling Capacity

- Specify nominal cooling capacity

Options/Accessories

Factory or Field Installed

Condensate Drain Trap

- Constructed of PVC (factory or field) or copper (field only)

NOTE - Trap is field installed only; PVC version may be factory ordered to ship with unit.

Drain Pan Overflow Switch

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

LOW GWP REFRIGERANT DETECTION SYSTEM (RDS)

- Complies with UL 60335-2-40 approved standard
- Required for all systems using R-454B refrigerant
- Factory installed on all units
- Consists of a refrigerant detection sensor(s) and a mitigation control
- Ensures safe operation for systems equipped with R-454B refrigerant
- Sensor(s) monitors indoor coil area for R-454B refrigerant
- If R-454B refrigerant is detected the refrigerant detection system will prevent compressor and heating operation until R-454B refrigerant is no longer detected
- Refrigeration detection system energizes blower if any R-454B refrigerant is detected to mitigate any concentrations of refrigerant from the unit and the system

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 Horizontal Discharge Kit.

Duct Flanges

- Provided for horizontal duct attachment

Power/Gas Entry

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

Exterior Panels

- Constructed of heavy-gauge, galvanized steel
- Textured pre-paint with polyurethane finish
- Cyclic salt fog and UV exposure up to 1680 hours per ASTM D5894

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

6 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)

Required Selections

Airflow Configuration

- Specify downflow or horizontal

Options/Accessories

Factory or Field Installed

Return Air Adaptor Plate

- For same size LCA/LGA/LHA, LCC/LGC/LHC and TCA/TGA/THA unit replacement)
- Installs on return air opening in unit to match return air opening on existing roof curbs
- Also see Accessory Air Resistance table

Combination Coil/Hail Guards

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

Factory Installed

Corrosion Protection

- Completely flexible immersed coating
- Electrodeposited dry film process (AST ElectroFin E-Coat)
- ASTM B117 / DIN 53167 Salt Spray - 15,000+ hours
- ASTM G85 Annex A3 SWAAT Modified Salt Spray - 3,000 hours
- VA Master Construction Specification Division 23 for High Humidity Installations
- CID AA-52474A (GSA)
- Indoor Corrosion Protection:
 - Coated coil
 - Coated reheat coil
 - Painted blower housing
 - Painted base
- Outdoor Corrosion Protection:
 - Coated coil
 - Painted outdoor base

Field Installed

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.

Burglar Bars

- Heavy gauge galvanized frame
- Fully welded
- 3/4 in. bar meets ASTM specification
- Frame meets ASTM A446, A525, A526 and A527 specification
- Burglar bars designed to fit ductwork

BLOWER

7 DirectPlus™ Blower System

- High-efficiency, variable-speed ECM (electronically commutated) motor
- Eliminates the need for a separate variable-frequency drive
- MSAV® Multi-Stage Air Volume control modulates the amount of supply blower airflow according to cooling demand, heating demand, ventilation demand or smoke alarm
- The amount of airflow for each stage can be set according to a parameter in the Lennox® CORE Unit Controller
- Unit is shipped from the factory with preset airflows
- Fully variable speed motor modulates to maximize system efficiency
- Combines the motor and electronics into one unit
- Aerodynamically optimized impeller
- Backward curved blades mounted directly onto the rotor



- Air inlet grill reduces indoor sound levels without affecting air performance

Blower Proving Switch

- Monitors blower operation, shuts down unit if blower fails

Supply Static Pressure Transducer (VAV Models Only)

- Sends information to the Lennox® CORE Unit Controller to control blower speed to the desired supply duct static pressure
- Shipped with the unit for remote field installation in the supply duct

Required Selections

Blower Selection

- MSAV® Multi-Stage Air Volume controls the speed of the blower based on the cooling and heating demands
- VAV (Variable Air Volume) blower varies the air volume to maintain a constant supply duct static pressure

FEATURES AND BENEFITS

ELECTRICAL

SmartWire™ System

- Keyed and color-coded wiring connectors prevent miswiring
- Wire coloring scheme is standardized across all models
- Each connection is intuitively labeled to make troubleshooting and servicing quick and easy

Electrical Plugs

- Positive connection electrical plugs are used to connect common accessories or maintenance parts for easy removal or installation

Phase/Voltage Detection

- Monitors power supply to assure phase is correct at unit start-up
 - If phase is incorrect, the unit will not start and an alarm code is reported to the unit controller
- Protects unit from being started with incorrect phasing which could lead to issues such as compressors running backwards
- Voltage detection monitors power supply voltage to assure proper voltage
 - If voltage is not correct (over/under voltage conditions) the unit will not start and an alarm code is reported to the unit controller

Required Selections

Voltage Choice

- Specify when ordering base unit

Options/Accessories

Factory Installed

Circuit Breakers

- HACR type
- For overload and short circuit protection
- Factory wired and mounted in the power entry panel
- Current sensitive and temperature activated
- Manual reset

Short-Circuit Current Rating (SCCR)

- Higher short circuit protection up to 100kA

NOTE - Disconnect Switch is furnished and factory installed with High SCCR option.

Factory or Field Installed

Disconnect Switch

- Accessible outside of unit
- Spring loaded weatherproof cover furnished

GFI Service Outlets (2)

- 115V ground fault circuit interrupter (GFCI) type options:
- Factory installed, powered and wired
- Factory installed, non-powered, field wired
- Field installed, non-powered, field wired

Field Installed

GFI Weatherproof Cover

- Single-gang cover
- Heavy-duty, UV-resistant, polycarbonate case construction
- Hinged base cover with gasket

FEATURES AND BENEFITS

INDOOR AIR QUALITY

8 Air Filters

- Disposable 2 inch MERV 4 filters furnished as standard

Options/Accessories

Factory or Field Installed

Healthy Climate® High Efficiency Air Filters

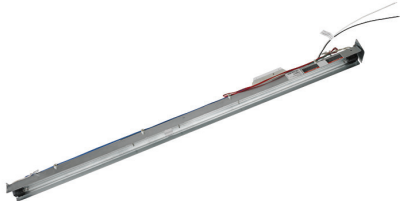
- Disposable MERV 8 and MERV 13 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters

Field Installed

Healthy Climate® High Efficiency MERV 16 Air Filters

- Disposable MERV 16 (Minimum Efficiency Reporting Value based on ASHRAE 52.2) efficiency 2 inch pleated filters

Healthy Climate® UVC Germicidal Light Kit



- 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
- 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)
- Destroys the organism or controls its ability to reproduce
- Field installed in the blower/evaporator coil section
- Magnetic safety interlock terminates power when access panels are removed
- All necessary hardware for installation is included
- Lamps operate on 110/230V-1ph power supply

NOTE - Step-down transformer may be ordered separately for 460V and 575V units.

- Approved by ETL

Needlepoint Bipolar Ionization (NPBI) Kit

- NPBI technology integrates with system controls for effective air treatment
- Ionization has been shown to effectively reduce harmful pathogens, pollutants and odors
- Brush-type ionizer introduces a high concentration of both positive and negative ions into the airstream
- The bipolar ions are then dispersed into the occupied space through the duct system proactively reducing the airborne contaminants
- Ions travel within the building air stream and attach to particles, pathogens, and gas molecules, making them larger and easier to capture in the filtration system
- UL 2998 certified for zero ozone emission

Indoor Air Quality (CO₂) Sensors

- Monitors CO₂ levels

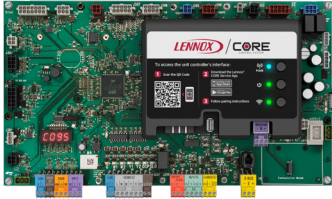
- Reports to the Lennox® CORE Unit Controller, which adjusts economizer dampers as needed

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

CONTROL SYSTEM

LENNOX® CORE CONTROL SYSTEM



9 The Lennox® CORE Control system is designed to accelerate equipment install and service. Standard with all Enlight rooftop units, control system integrates key technologies that lower installation costs, drive system efficiency, and protect your investments.

The Lennox® CORE Unit Controller is a microprocessor-based controller that provides flexible control of all unit functions.

CORE Mobile Service App

- Guided Setup with progress indicators, detailed help, and exportable summaries to manage simple, trouble-free setup, reducing commissioning times
- Enhanced Test Functionality provides real-time sensor readings, trending, and reports that enable easy troubleshooting
- Ability to set and configure parameters of the CORE Control System to manage sequence of operation
- Economizer test function ensures economizer is operating correctly



Additional Features:

- Built-In 7-Segment Display shows Unit Status and active alarms for easy troubleshooting
- Buttons for test and clearing delays
- SmartWire™ System with keyed and removable screw terminals ensure correct field wiring
- Built-in BACnet MS/TP and IP allow open integration to building management systems
- Two-port Ethernet Switch enables daisy chaining for BACnet IP and automatic firmware updates

NOTE - Unit Internet Connection required.

- Profile setup copies key settings between units with the same configuration to reduce setup time
- USB port allows a technician to download and transfer unit information to help verify service was performed
- USB software updates on the Lennox® CORE Unit Controller enhance functionality without the need to change components
- Unit Controller Software

Configurable Built-In Functions

- Discharge Air Cooling Control
- Up to three distinct Cooling Airflows in Thermostat Mode
- Programmable independent heating, ventilation and cooling blower speeds

- Discharge Air Heating Control
- Economizer Control Options (See Economizer / Exhaust Air / Outdoor Air sections)
- Exhaust Fan Control Modes for fresh air damper position
- Configurable Morning Warm-up
- Night Setback Mode
- Fresh Air Tempering for Improved Ventilation
- Demand Control Ventilation
- Low Ambient Controls for operation down to 0°F
- Humiditrol® Operation
- Enhanced Dehumidification (Latent Demand Control without hot gas reheat)

Component Protection / Unit Safeguards:

- Compressor Time-Off Delay
- Adjustable Blower On/Off Delay
- Return Air Temperature Limit Control
- Safety Switch Input allows Controller to respond to a external safety switch trip
- Service Relay Output
- Thermostat Bounce Delay
- Smoke Alarm Mode has four choices (unit off, positive pressure, negative pressure, purge)
- "Strike Three" Protection
- Gas Valve Time Delay Between First and Second Stage
- Minimum Compressor Run Time

Control Methods / Interfaces:

- DDC and 24V Thermostat
- BACnet MS/TP and IP
- LONTalk (Factory and Field Option)
- Lennox S-BUS
- Zone Temperature Sensor Input
- Dehumidistat and Humidity Sensor Inputs
- Indoor Air Quality Inputs (2)
- Built-in Control Parameter Defaults
- Permanent Diagnostic Code Storage
- Field Adjustable Control Parameters (Over 200 settings)
- Multiple Configurable Digital Inputs
- LED Indicators
- PC Interface connects the Lennox® CORE Unit Controller to a PC with the Lennox Unit Controller Software

NOTE - Lennox® CORE Control System features vary with the type of rooftop unit in which the control is installed.

CONTROL SYSTEM

LENNOX® CORE CONTROL SYSTEM (continued)

Controls Options

Factory or Field Installed

Dirty Filter Switch

- Senses static pressure increase and issues alarm if necessary

Fresh Air Tempering

- Used in applications with high outside air requirements
- Controller energizes the first stage heat as needed to maintain a minimum supply air temperature for comfort, regardless of the thermostat demand
- When ordered as a factory option, sensor ships with the unit for field installation

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)
- Power board located in unit control compartment

Commercial Control Systems

Interoperability via BACnet® or LonTalk® Protocols

- Communication compatible with third-party automation systems that support the BACnet Application Specific Controller device profile, LonMark® Space Comfort Controller functional profile, or LonMark Discharge Air Controller functional profile

- **Field Installed**

Thermostats and Room Sensors

- Control system and thermostat options, see page 14

OPTIONS / ACCESSORIES

ECONOMIZER

- Economizer operation is set and controlled by the Lennox® CORE Control System
- Simple plug-in connections from economizer to control system for easy installation
- All Enlight rooftop units are equipped with factory installed CEC Title 24 approved sensors for outside, return and discharge air temperature monitoring

NOTE - Optional sensors may be used instead of unit sensors to determine whether outdoor air is suitable for free cooling. See the Options/Accessories table.

Factory or Field Installed

10 High Performance Economizer

- Approved for California Title 24 building standards
- Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 CFM per sq. ft. leakage at 1 in. w.g.
- ASHRAE 90.1 compliant
- Downflow or Horizontal with Outdoor Air Hood
- Outdoor Air Hood is included when economizer is factory installed and is furnished with economizer when ordered for field installation
- Linked damper action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit

11 Downflow Barometric Relief Dampers with Exhaust Hood is also furnished

NOTE - Horizontal applications use furnished outdoor air hood and barometric relief dampers with exhaust hood. Requires optional Horizontal Discharge Kit. See dimension drawing on page 42.

Horizontal applications in reduced spaces requires optional Horizontal Low Profile Barometric Relief Dampers with Exhaust Hood and Horizontal Discharge Kit. See dimension drawing on page 43.

NOTE - High Performance Economizers are not approved for use with enthalpy controls in Title 24 applications.

NOTE - The Free Cooling setpoint for Title 24 applications must be set based on the Climate Zone where the system is installed. See Section 140.4 "Prescriptive Requirements for Space Conditioning Systems" of the California Energy Commission's 2022 Building Energy Efficiency Standards.

NOTE - Refer to Installation Instructions for complete setup information.

OPTIONS / ACCESSORIES

ECONOMIZER (continued)

Factory or Field Installed

Differential Sensible Control

- Factory setting
- Uses outdoor air and return air sensors that are furnished with the unit
- The Lennox® CORE Control System compares outdoor air temperature with return air and activates the economizer when the outdoor air is below the configured setpoint and cooler than return air

NOTE - Differential Sensible Control can be configured in the field to provide Offset Differential Sensible Control or Single Sensible Control.

In Offset Differential Sensible Control mode, the economizer is enabled if the temperature differential (offset) between outdoor air and return air reaches the configured setpoint.

In Single Sensible Control mode, the economizer is enabled when outdoor air temperature falls below the configured setpoint.

Global Control

- The unit controller communicates with a DDC system with one global sensor (enthalpy or sensible)
- Determines whether outside air is suitable for free cooling on all units connected to the control system
- Sensor must be field provided

Single Enthalpy Control (Not for Title 24)

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

Differential Enthalpy Control (Not for Title 24)

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

Field Installed

Outdoor Air CFM Control

- Maintains constant outdoor air volume levels on the supply air fan and varying unit airflows
- Velocity sensor located in the rooftop unit outdoor air section, the Lennox® CORE Control System changes the economizer position to help minimize the effect of supply fan speed changes on outdoor air volume levels
- Setpoint for outdoor air volume is established by field testing

NOTE - Not available with Demand Control Ventilation (CO₂ Sensor) or Building Pressure Control.

Building Pressure Control

- Maintains constant building pressure level
- Includes a static pressure transducer and outdoor static pressure assembly
- Using differential pressure information between the outdoor air and the building air, the Lennox® CORE Control System changes the economizer position to help maintain a constant building pressure

NOTE - Not available with Demand Control Ventilation (CO₂ Sensor) or Outdoor Air CFM Control.

EXHAUST

Factory or Field Installed

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 is 20 in. diameter
- Five blades
- One 1/3 HP motor

NOTE - Requires Economizer and Downflow Barometric Relief Dampers.

Field Installed

Horizontal Low Profile Barometric Relief Dampers

- For use when unit is configured for horizontal applications 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
- Bird screen and hood furnished

NOTE - Requires Horizontal Discharge Kit.

OPTIONS / ACCESSORIES

OUTDOOR AIR

Factory or Field Installed

Motorized Outdoor Air Dampers

- Linked mechanical dampers
- Fully modulating spring return damper motor with plug-in connection
- 0 to 25% (fixed) outdoor air adjustable
- Installs in unit
- Outdoor air hood with bird screen included

NOTE - Outdoor Air Hood is shipped separately in the unit with factory installed dampers for field installation.

Field Installed

Manual Outdoor Air Damper

- Adjustable slide damper
- Installed in unit
- Outdoor air hood with bird screen included

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 for assembly
- Can also be fastened together with furnished hardware
- Available in 8, 14, 18, and 24 inch heights

Adjustable Pitch Curb

- Fully adjustable pitch curbs (3/4 in. per foot in any direction) provide a level platform for rooftop units allowing flexible installations on roofs with uneven or sloped angles
- Interlocking tabs fasten corners together
- No tools required for assembly
- Hardware is furnished to connect upper curb with lower curb
- Available in 14 inch 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

HUMIDITROL® DEHUMIDIFICATION SYSTEM OPTION

OVERVIEW

- Factory installed option designed to control humidity
- Provides dehumidification on demand using ASHRAE 90.1 recommended method for comfort conditioning humidity control
- Unit comes equipped with one row reheat coil, solenoid valve and humidity controller

NOTE - A dehumidification demand from a relative humidity sensor, dehumidistat, a DDC controller or building automation system is required to control humidity.

Controls are not furnished and must be ordered separately.

BENEFITS

- Improves indoor air quality
- Helps prevent damage due to high humidity levels
- Improves comfort levels by reducing space humidity levels

OPERATION

No Dehumidification Demand

- The unit will operate conventionally whenever there is a demand for cooling or heating and no dehumidification demand
- Free cooling is only permitted when there is no demand for dehumidification

Dehumidification Demand Only

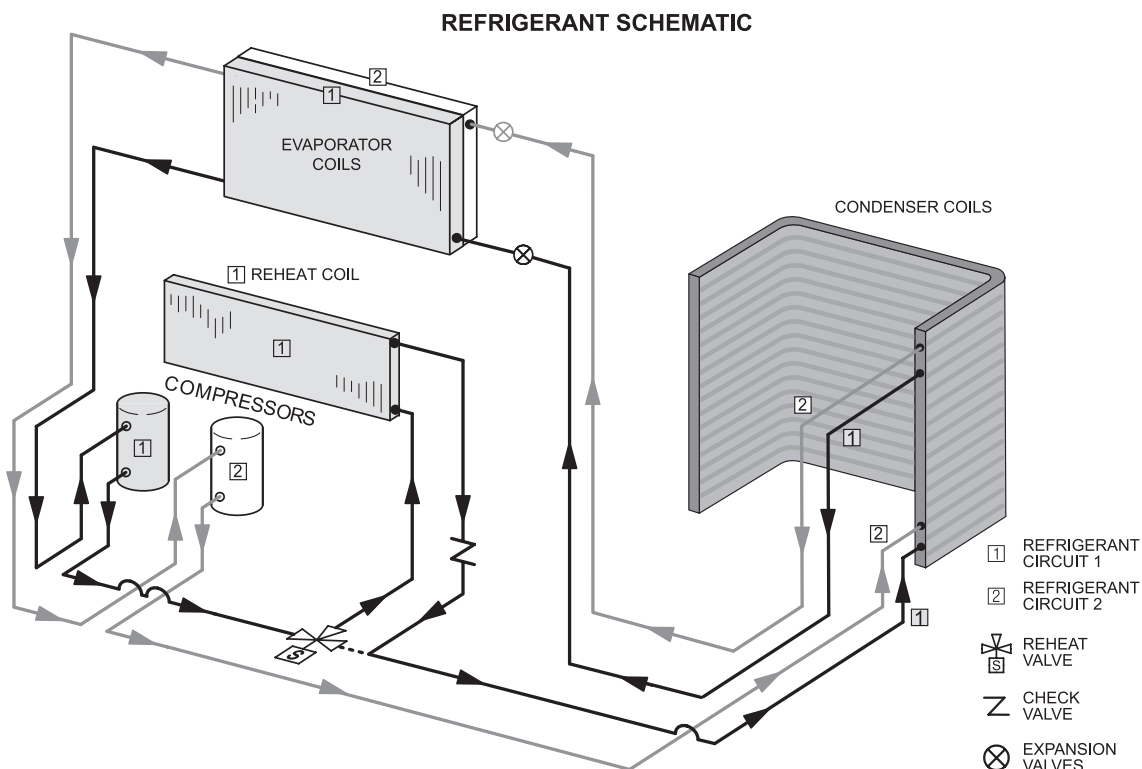
- Reheat operation will initiate on a dehumidification demand and does not require a cooling demand

- The unit will operate in the dehumidification mode until the relative humidity of the conditioned space is below the setpoint
- This reduces sensible cooling capacity and extends compressor run time to control humidity when the cooling load is low
- A solenoid valve diverts hot gas from the compressor to the reheat coil
- The cooled and dehumidified air from the evaporator is reheated as it passes through the reheat coil
- The de-superheated and partially condensed refrigerant continues to the outdoor condenser coil where condensing is completed
- Unit will continue to operate in this mode until the dehumidification demand is satisfied

NOTE - See Sequence of Operation for additional information.

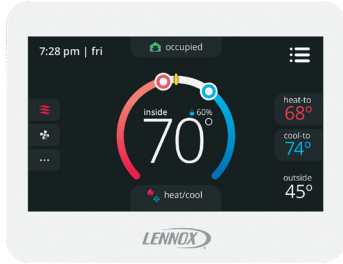
Dehumidification and Cooling Demand (Thermostat/ Room Sensor Application)

- If both a dehumidification and a full cooling load demand occur, the system will operate in cooling until the cooling demand is satisfied
- Then the system will energize the dehumidification mode



OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

CS8500 Commercial 7-Day Programmable Thermostat



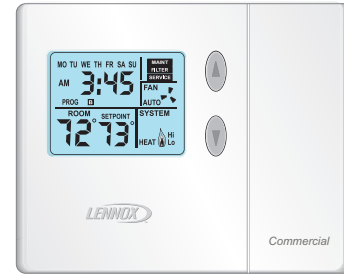
- Fully Communicating Sensor
- Full Color Touchscreen Interface
- Variable Speed System Control (On Compatible Units)
- Up To 4 Heat / 4 Cool
- Built-In Sensors For Temperature, Humidity And Optional CO₂
- Remote Sensor Options For Occupancy, Temperature
- BACnet Capable Options
- 5-2 or 7-Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-Changeover
- Four-Wire Installation
- FDD, ASHRAE, IECC Compliant

CS7500 Commercial 7-Day Programmable Thermostat



- Premium Universal Thermostat
- Full Color Touchscreen Interface
- Up To 4 Heat / 3 Cool
- Built-In Sensors For Temperature and Humidity
- Remote Sensors Options For Temperature, Discharge Air, Outdoor Air
- 5-2 or 7-Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-Changeover
- FDD, ASHRAE, IECC Compliant

CS3000 Commercial 5-2 Day Programmable Thermostat



- Conventional Multi-Stage Thermostat
 - Intuitive Display
 - Push-Button Operation
 - Up To 2 Heat / 2 Cool
 - Built-In Temperature Sensor
 - Remote Temperature Sensing
 - Up to 5-2 Day Scheduling
 - Smooth Setback Recovery
 - Heat/Cool Auto-changeover
- Wired Temperature/Humidity Room Sensor (Non-Communicating)**



- Terminal blocks for wiring connections
- Five-wire sensor connection
- Off-white plastic enclosure
- Non-adjustable
- Relative humidity range: 0 -100%
- +/- 3% Accuracy

OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

| Description | Order Number |
|---|--|
| CS8500 Commercial 7 Day Programmable Thermostat | |
| CS8500 7-Day Thermostat | No CO ₂ Sensing 24K55 |
| | With CO ₂ Sensing 24K53 |
| Sensors/Accessories | ¹ Remote non-adjustable wall-mount 10k 47W37 |
| | ¹ Remote non-adjustable wall-mount 11k 94L61 |
| Sybus Network Cable (Yellow) for CS8500 and LCS-5030 Wired Room Sensor | |
| Twisted pair 100% shielded communication cable, Red and Black | 500 ft. box 27M19 |
| 22 AWG, yellow jacket, rated at 75°C, 300V, Plenum rated | 1000 ft. box 94L63 |
| Insulation - Low smoke PVC, NEC, CMP | 2500 ft. roll 68M25 |
| CS7500 Commercial 7-Day Programmable Thermostat | |
| CS7500 7-Day Thermostat | 24K41 |
| Sensors/Accessories | ² Remote non-adjustable wall-mount 20k 47W36 |
| | ² Remote non-adjustable wall-mount 10k 47W37 |
| | Remote non-adjustable discharge air (duct mount) 19L22 |
| | Outdoor temperature sensor X2658 |
| CS3000 Commercial 5-2 Day Programmable Thermostat | |
| CS3000 5-2 Day Thermostat | 11Y05 |
| Sensors/Accessories | Remote non-adjustable wall mount 10k averaging 47W37 |
| | Thermostat wall mounting plate X2659 |
| Universal Thermostat Guard with Lock (clear) | |
| | Inside Dimensions (H x W x D) 5-7/8 x 8-3/8 x 3 in. 39P21 |
| Temperature/Humidity Room Sensor | |
| A335MT13AE1 Wired Temperature/Humidity Room Sensor (Non-Communicating) | 21W06 |

¹ Up to nine of the same type remote temperature sensors can be connected in parallel.

² 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

Objective: Outline the unit functions as a result of room thermostat or zone sensor demands.

Given: When economizer is present, it will function as an integral part of the unit cooling system. When not present, unit will function as if economizer is present but outdoor ambient is high and sensed as not suitable.

UNIT OPERATION WITH 2-STAGE THERMOSTAT (2 COOL AND 2 HEAT STAGES, Y1, Y2, W1, W2)

SUPPLY AIR BLOWER SPEED

Unit has following supply air blower speed setting:

- Ventilation speed
- Cooling Speed - Low
- Cooling Speed - High
- Heating speed
- Smoke speed (Used only in smoke removal option - not discussed)

COOLING

¹ Unit Features an Economizer and Outdoor Air is Suitable

Cooling - Thermostat Mode (Y1, Y2)

Y1 Demand:

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

Y2 Demand:

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain 55°F supply air temperature.

If economizer stays at maximum open for 3 minutes, compressor 1 is energized while supply air blower stays on high cooling speed providing maximum cooling capacity.

¹ *Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the rooftop unit via a network connection.*

Unit Does Not Feature an Economizer (or Outdoor Air Is Not Suitable)

Y1 Demand:

Compressor 1 operates and supply air blower operates at low cooling speed.

Y2 Demand:

All compressors operate and supply air blower operates at high cooling speed.

DEHUMIDIFICATION

Unit Features the Humiditrol® Dehumidification option. Economizer free cooling is locked out

Call For Dehumidification, No Y1, Y2 demand:

1st stage compressor operates, supply air blower operates at low cooling speed, and the reheat valve is energized.

Y1 Demand With A Call For Dehumidification:

All compressors operate, supply air blower operates at high cooling speed and the reheat valve is energized.

Y2 Demand With A Call For Dehumidification:

All compressors operate, supply air blower operates at high cooling speed, and the reheat valve is de-energized.

**UNIT OPERATION WITH 3-STAGE THERMOSTAT OR ZONE SENSOR
(3 COOL AND 2 HEAT STAGES, Y1, Y2, Y3 AND W1, W2)****SUPPLY AIR BLOWER SPEED**

Unit has following supply air blower speed setting:

- Ventilation speed
- Cooling Speed - Low
- Cooling Speed - Medium
- Cooling Speed - High
- Heating speed
- Smoke speed (Used only in smoke removal option - not discussed)

COOLING**¹ Unit Features An Economizer And Outdoor Air Is Suitable**

Cooling - Thermostat or Zone Sensor Mode (Y1, Y2, Y3)

Y1 Demand:

All compressors are off, supply air blower is on low cooling speed to minimize blower power consumption, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

Y2 Demand:

All compressors are off, supply air blower is on high cooling speed providing higher cooling capacity, and economizer modulates to maintain 55°F supply air temperature.

If economizer stays at maximum open for 3 minutes, compressor 1 is energized while supply air blower stays on high cooling speed providing maximum cooling capacity. After compressors are energized the economizer stays at maximum open.

Y3 Demand:

Compressors 1 and 2 are energized while supply air blower stays on high cooling speed.

¹ Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the rooftop unit via a network connection.

Unit Does Not Feature An Economizer or Outdoor Air Is Not Suitable**Y1 Demand:**

Compressor 1 operates at part load and supply air blower operates at low cooling speed.

Y2 Demand:

Compressor 1 operates at part load with compressor 2 ON, and supply air blower operates at medium cooling speed.

Y3 Demand:

All compressors operate and supply air blower operates at high cooling speed.

UNIT OPERATION WITH 3-STAGE THERMOSTAT OR ZONE SENSOR (3 COOL AND 2 HEAT STAGES, Y1, Y2, Y3 AND W1, W2) CONTINUED**DEHUMIDIFICATION**

Unit Features the Humiditrol® Dehumidification option. Economizer free cooling is locked out

Call For Dehumidification, No Y1, Y2 demand:

1st stage compressor operates, supply air blower operates at low cooling speed, and the reheat valve is energized.

Y1 Demand:

All compressors operate, supply air blower operates at medium cooling speed and the reheat valve is energized.

Y2 Demand:

All compressors operate, supply air blower operates at high cooling speed and the reheat valve is energized.

Y3 Demand:

All compressors operate, supply air blower operates at high cooling speed, and the reheat valve is de-energized.

HEATING - TWO-STAGE

NOTE - HEATING MODE IS THE SAME FOR ALL CONTROL OPTIONS

W1 Demand:

Gas valves are open (stage 1 on units with 2-stage gas valves) and supply air blower operates at heating speed.

W2 Demand:

Gas valves are open (stage 2 on units with 2-stage gas valves) and supply air blower operates at heating speed.

HEATING - MODULATING**W1 or Low Heating Demand:**

Supply fan operates at low heating speed and Gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint.

W2 or High Heating Demand:

Supply fan operates at high heating speed and Gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint.

Zone Sensor:

Heating demand is based on delta and duration of Zone Air Temperature (ZAT) away from ZAT setpoint. Based on heating demand, supply fan modulates between low heating speed and high heating speed while gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint as the blower speed changes.

ACCESSORIES**Outdoor Air Damper**

The minimum damper position for "occupied low blower" and "occupied high blower" is adjusted during unit setup to provide minimum fresh air requirements per ASHRAE 62.1 at the corresponding supply air blower speeds.

When supply air blower is off or the unit is in unoccupied mode, the outdoor air damper is closed.

When unit is in occupied mode and supply air blower is operating at a speed below the "midpoint" blower speed, the outdoor air damper is at minimum "low blower" position.

When unit is in occupied mode and supply air blower is operating at a speed equal to or above the "midpoint" blower speed, the outdoor air damper is at minimum "high blower" position.

NOTE - The "midpoint" blower speed is an average of the minimum and maximum blower speed (minimum speed + maximum speed divided by 2).

Power Exhaust

NOTE - POWER EXHAUST OPERATION IS THE SAME FOR ALL CONTROL OPTIONS

Single-stage power exhaust fan is an option available to units with Economizer and for downflow applications only.

Power exhaust fan operates when economizer outdoor air dampers are 50% open (adjustable) and when supply air blower is ON.

UNITS IN ZONING APPLICATIONS OPERATING WITH DISCHARGE AIR CONTROL (2 HEAT / 3 COOL)**SUPPLY AIR BLOWER SPEED**

Unit has the following supply air blower speed settings:

- Ventilation Speed
- Cooling Speed - Fully modular based on supply duct static pressure
- Heating Speed
- Smoke Speed (Used only in smoke removal option - not discussed)

COOLING

Discharge air temperature (DAT) can be used to control unit staging.

DAT default setpoint = 55°F. Unit will stage compressors as required to maintain the setpoint when provided with Y1 thermostat demand.

Increasing compressor stages provides more cooling capacity while decreasing compressor stages provides less cooling capacity.

¹ Unit Features And Economizer And Outdoor Air Is Suitable**Y1 Demand:**

All compressors are off, supply air blower operates to maintain duct static pressure, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting).

Y2 Demand:

All compressors are off, supply air blower operates to maintain duct static pressure, and economizer modulates to maintain 55°F supply air temperature. If economizer stays at maximum open for 3 minutes, compressor 1 is energized while supply air blower operates to maintain duct static pressure. After compressor 1 is energized, the economizer stays at maximum open.

Y3 Demand:

Compressor 1 and 2 are energized while supply air blower operates to maintain duct static pressure.

¹ Outdoor air suitability is determined by the energy state of outdoor ambient (enthalpy or sensible) and its ability to achieve the desired free cooling effects. Outdoor air suitability can also be determined by a third party controller and provided to the rooftop unit via a network connection.

Unit Does Not Feature And Economizer Or Outdoor Air Is Not Suitable**Y1 Demand:**

Compressor 1 operates at part load and supply air blower operates to maintain duct static pressure.

Y2 Demand:

Compressors 1 operates at part load with compressor 2 ON and supply air blower operates to maintain duct static pressure.

Y3 Demand:

All compressors operate and supply air blower operates to maintain duct static pressure.

HEATING - MODULATING**Thermostat (Up to 2 stages W1, W2)**

W1 demand is used to indicate heating operation. Supply fan operates to maintain Duct Static setpoint and gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint as the blower speed changes.

To turn off heating, W1 is removed.

Zone Sensor

Zone Air Temperature of ZAT_SP +0.5F signal is sent to indicate heating operation. Supply fan operates to maintain Duct Static setpoint and gas valve modulates to maintain Discharge Air Temperature (DAT) set-point as the blower speed changes.

Zone Air Temperature of ZAT_SP - 0.5F signal is sent to turn off heating.

UNITS IN ZONING APPLICATIONS OPERATING WITH DISCHARGE AIR CONTROL (2 HEAT / 3 COOL) CONTINUED
HEATING - TWO-STAGE

Discharge air temperature (DAT) can be used to control unit staging.

DAT default setpoint = 110°F. Unit will stage heating as required to maintain the setpoint when provided with W1 demand.

Increasing heat stages provides more heating capacity while decreasing heat stages provides less heating capacity.

Blower operates to maintain Heating Static setpoint for all stages.

W1 Demand:

The first stage of mechanical heat is activated; gas valve one is in low fire mode. This is -65% of heating capacity.

W2 Demand:

Gas valves are in high fire mode. This is 100% of heating capacity.

HEATING - MODULATING**W1 or Low Heating Demand:**

Supply fan operates at low heating speed and Gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint

W2 or High Heating Demand:

Supply fan operates at high heating speed and Gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint

Zone Sensor:

Heating demand is based on delta and duration of Zone Air Temperature (ZAT) away from ZAT setpoint. Based on heating demand, supply fan modulates between low heating speed and high heating speed while gas valve modulates to maintain Discharge Air Temperature (DAT) setpoint as the blower speed changes

ACCESSORIES**Modulating Outdoor Air Damper**

The minimum damper position for "occupied low blower" and "occupied high blower" is adjusted during unit setup to provide minimum fresh air requirements per ASHRAE 62.1 at the corresponding supply air blower speeds.

- When supply air blower is off or the unit is in unoccupied mode, the outdoor air damper is closed.
- When unit is in occupied mode and supply air blower is operating at a speed below the "midpoint" blower speed, the outdoor air damper is at minimum "low blower" position.
- When unit is in occupied mode and supply air blower is operating at a speed equal to or above the "midpoint" blower speed, the outdoor air damper is at minimum "high blower" position.

NOTE - The "midpoint" blower speed is an average of the minimum and maximum blower speed (minimum speed + maximum speed) divided by 2.

OPTIONS / ACCESSORIES

| Item Description | Order Number | Size | | | | |
|---|--------------------------------------|--------------|-----|-----|-----|----|
| | | 092 | 102 | 120 | 150 | |
| COOLING SYSTEM | | | | | | |
| Condensate Drain Trap | PVC | 22H54 | OX | OX | OX | OX |
| | Copper | 76W27 | X | X | X | X |
| Drain Pan Overflow Switch | | 21Z07 | OX | OX | OX | OX |
| HEATING SYSTEM | | | | | | |
| Bottom Gas Piping Kit | | 54W95 | X | X | X | X |
| Combustion Air Intake Extensions | | 19W51 | X | X | X | X |
| ¹ Modulating Gas Heat | | Factory | O | O | O | O |
| Gas Heat Input | Standard - 84,500-130,000 Btuh | Factory | O | O | O | O |
| | Medium - 117,000-180,000 Btuh | Factory | O | O | O | O |
| | High - 156,000-240,000 Btuh | Factory | O | O | O | O |
| LPG/Propane Conversion Kit | All Heat Sizes | 39J46 | X | X | X | X |
| Low Temperature Vestibule Heater | 208/230V-3ph | 22A51 | X | X | X | X |
| | 460V | 22A55 | X | X | X | X |
| | 575V | 13X65 | X | X | X | X |
| Stainless Steel Heat Exchanger | | Factory | O | O | O | O |
| Vertical Vent Extension Kit | | 42W16 | X | X | X | X |
| BLOWER - SUPPLY AIR | | | | | | |
| | DirectPlus™ Blower System with MSAV® | Factory | O | O | O | O |
| | DirectPlus™ Blower System with VAV | Factory | O | O | O | O |
| CABINET | | | | | | |
| Burglar Bars | | Y3355 | X | X | X | X |
| Combination Coil/Hail Guards | | 24C85 | OX | OX | OX | OX |
| Corrosion Protection | | Factory | O | O | O | O |
| Horizontal Discharge Kit | | 51W25 | X | X | X | X |
| Return Air Adaptor Plate (for same size LCA/LGA/LHA, LCC/LGC/LHC and TCA/TGA/THA unit replacement) | | 54W96 | OX | OX | OX | OX |
| CONTROLS | | | | | | |
| Blower Proving Switch | | 21Z10 | OX | OX | OX | OX |
| Commercial Controls | CPC Einstein Integration | Factory | O | O | O | O |
| | LonTalk® Module | 54W27 | OX | OX | OX | OX |
| | Novar® LSE | Factory | O | O | O | O |
| Dirty Filter Switch | | 53W67 | OX | OX | OX | OX |
| ¹ Remote Discharge Air Temperature Sensor | | 21Z08 | OX | OX | OX | OX |
| Fresh Air Tempering | | 21Z08 | OX | OX | OX | OX |
| Smoke Detector - Supply or Return (Power board and one sensor) | | 31A68 | OX | OX | OX | OX |
| Smoke Detector - Supply and Return (Power board and two sensors) | | 31A69 | OX | OX | OX | OX |

¹ Modulating Gas Heat for Horizontal Applications requires a Remote Discharge Air Temperature Sensor (21Z08). Sensor is shipped with the unit for field installation if unit is configured at the factory. Sensor must be ordered separately for field installation if unit is not factory configured.

NOTE - Order 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 | Order Number | Size | | | | |
|--|---|--------------|-----|-----|-----|----|
| | | 092 | 102 | 120 | 150 | |
| INDOOR AIR QUALITY | | | | | | |
| Air Filters | | | | | | |
| Healthy Climate® High Efficiency Air Filters 20 x 25 x 2 (Order 4 per unit) | MERV 8 | 50W61 | OX | OX | OX | OX |
| | MERV 13 | 52W41 | OX | OX | OX | OX |
| | MERV 16 | 21U41 | X | X | X | X |
| Replacement Media Filter With Metal Mesh Frame (includes non-pleated filter media) | | Y3063 | X | X | X | X |
| Indoor Air Quality (CO₂) Sensors | | | | | | |
| Sensor - Wall-mount, off-white plastic cover with LCD display | | 77N39 | X | X | X | X |
| Sensor - Wall-mount, off-white plastic cover, no display | | 87N53 | X | X | X | X |
| Sensor - Black plastic case, LCD display, rated for plenum mounting | | 87N52 | X | X | X | X |
| Sensor - Black plastic case, no display, rated for plenum mounting | | 87N54 | X | X | X | X |
| CO ₂ Sensor Duct Mounting Kit - for downflow applications | | 85L43 | X | X | X | X |
| Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (77N39) | | 90N43 | X | X | X | X |
| Needlepoint Bipolar Ionization (NPBI) | | | | | | |
| Needlepoint Bipolar Ionization (NPBI) Kit | | 21U36 | X | X | X | X |
| UVC Germicidal Lamps | | | | | | |
| ² Healthy Climate® UVC Light Kit (110/230v-1ph) | | 21A93 | X | X | X | X |
| Step-Down Transformers | 460V primary, 230V secondary | 10H20 | X | X | X | X |
| | 575V primary, 230V secondary | 10H21 | X | X | X | X |
| ELECTRICAL | | | | | | |
| Voltage 60 Hz | 208/230V - 3 phase | Factory | O | O | O | O |
| | 460V - 3 phase | Factory | O | O | O | O |
| | 575V - 3 phase | Factory | O | O | O | O |
| HACR Circuit Breakers | | Factory | O | O | O | O |
| ³ Short-Circuit Current Rating (SCCR) of 100kA (includes Phase/Voltage Detection) | | Factory | O | O | O | O |
| Disconnect Switch | 80 amp | 54W56 | OX | OX | OX | OX |
| GFI Service Outlets | 15 amp non-powered, field-wired (208/230V, 460V only) | 74M70 | OX | OX | OX | OX |
| | 15 amp factory-wired and powered (208/230V, 460V only) | Factory | O | O | O | O |
| | ⁴ 20 amp non-powered, field-wired (208/230V, 460V, 575V) | 67E01 | X | X | X | X |
| | ⁴ 20 amp non-powered, field-wired (575V) | Factory | O | O | O | O |
| Weatherproof Cover for GFI | | 10C89 | X | X | X | X |

² Lamps operate on 110-230V single-phase power supply. Step-down transformer may be ordered separately for 460V and 575V units. Alternately, 110V power supply may be used to directly power the UVC ballast(s).

³ Disconnect Switch is furnished and factory installed with High SCCR option.

⁴ Canada requires a minimum 20 amp circuit. Select 20 amp, non-powered, field wired GFI.

NOTE - Order 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 | Order Number | Size | | | |
|---|-------------------------------|------|-----|-----|-----|
| | | 092 | 102 | 120 | 150 |
| ECONOMIZER | | | | | |
| High Performance Economizer (Approved for California Title 24 Building Standards / AMCA Class 1A Certified) | | | | | |
| High Performance Economizer (Downflow or Horizontal) | 20U80 | OX | OX | OX | OX |
| Includes Economizer Dampers with Outdoor Air Hood and Downflow Barometric Relief Dampers with Exhaust Hood | | | | | |
| Downflow Applications - Use furnished Outdoor Air Hood – Order Downflow Barometric Relief Dampers and Exhaust Hood separately | | | | | |
| Horizontal Applications – Use furnished Outdoor Air Hood – Order Horizontal Low Profile Barometric Relief Dampers with Exhaust Hood and Horizontal Discharge Kit separately | | | | | |
| Horizontal Barometric Relief Dampers | | | | | |
| Horizontal Low Profile Barometric With Exhaust Hood | 53K04 | X | X | X | X |
| Economizer Controls | | | | | |
| Differential Enthalpy (Not for Title 24) | Order 2 21Z09 | OX | OX | OX | OX |
| Sensible Control | Sensor is Furnished Factory | O | O | O | O |
| Single Enthalpy | 21Z09 | OX | OX | OX | OX |
| Building Pressure Control | 13J77 | X | X | X | X |
| Outdoor Air CFM Control | 13J76 | X | X | X | X |
| Global Control | Sensor Field Provided Factory | O | O | O | O |
| OUTDOOR AIR | | | | | |
| Outdoor Air Dampers With Outdoor Air Hood | | | | | |
| Motorized | 14G28 | OX | OX | OX | OX |
| Manual | 14G29 | X | X | X | X |
| POWER EXHAUST | | | | | |
| Standard Static | 208/230V-3ph 53W44 | OX | OX | OX | OX |
| | 460V-3ph 53W45 | OX | OX | OX | OX |
| | 575V-3ph 53W46 | OX | OX | OX | OX |
| HUMIDITROL® CONDENSER REHEAT OPTION | | | | | |
| Humiditrol Dehumidification Option | Factory | O | O | O | O |
| Humidity Sensor Kit, Remote mounted (required) | 17M50 | X | X | X | X |
| ROOF CURBS | | | | | |
| Hybrid Roof Curbs, Downflow | | | | | |
| 8 in. height | 11F54 | X | X | X | X |
| 14 in. height | 11F55 | X | X | X | X |
| 18 in. height | 11F56 | X | X | X | X |
| 24 in. height | 11F57 | X | X | X | X |
| Adjustable Pitch Curb, Downflow | | | | | |
| 14 in. height | 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 - Order 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 | | | MSAV MODELS | | | | |
|---|--|-----------|---|---|---|---|----|
| Model | | | LGT092H5E | LGT102H5E | LGT120H5E | LGT150H5E | |
| Nominal Tonnage | | | 7.5 Ton | 8.5 Ton | 10 Ton | 12.5 Ton | |
| Efficiency Type | | | High | High | High | High | |
| Blower Type | | | DirectPlus™ ECM Direct Drive with MSAV® | DirectPlus™ ECM Direct Drive with MSAV® | DirectPlus™ ECM Direct Drive with MSAV® | DirectPlus™ ECM Direct Drive with MSAV® | |
| Cooling Performance | Gross Cooling Capacity (Btuh) | | 94,000 | 103,000 | 121,000 | 142,000 | |
| | ¹ Net Cooling Capacity (Btuh) | | 92,000 | 100,000 | 118,000 | 138,000 | |
| | ¹ AHRI Rated Air Flow (cfm) | | 3000 | 3400 | 3400 | 4100 | |
| | ¹ IEER (Btuh/Watt) | | 16.1 | 16.1 | 16.1 | 15.4 | |
| | ¹ EER (Btuh/Watt) | | 12.3 | 12.1 | 12.1 | 10.8 | |
| | Total Unit Power (kW) | | 7.6 | 8.0 | 9.9 | 12.8 | |
| Sound Rating Number | | | dBA | 88 | 88 | 89 | 89 |
| Refrigerant Charge | Refrigerant Type | | R-454B | R-454B | R-454B | R-454B | |
| | Without Reheat Option | Circuit 1 | 6 lbs. 4 oz. | 6 lbs. 4 oz. | 5 lbs. 14 oz. | 5 lbs. 12 oz. | |
| | | Circuit 2 | 5 lbs. 14 oz. | 5 lbs. 14 oz. | 5 lbs. 14 oz. | 6 lbs. 4 oz. | |
| | With Reheat Option | Circuit 1 | 6 lbs. 8 oz. | 6 lbs. 8 oz. | 6 lbs. 4 oz. | 6 lbs. 2 oz. | |
| | | Circuit 2 | 5 lbs. 14 oz. | 5 lbs. 14 oz. | 5 lbs. 14 oz. | 6 lbs. 4 oz. | |
| Gas Heat Available | | | See page 26 | | | | |
| Compressor Type (number) | | | Two-Stage Scroll (1) Single-Stage Scroll (1) | | | | |
| Outdoor Coil | Net face area - ft. ² (total) | | 27.5 | 27.5 | 27.5 | 27.5 | |
| | Rows | | 1 | 1 | 1 | 1 | |
| | Fins - in. | | 20 | 20 | 20 | 20 | |
| Outdoor Coil Fans | Motor HP (number and type) | | 1/3 (2 PSC) | 1/3 (2 PSC) | 1/2 (2 PSC) | 1/2 (2 PSC) | |
| | Rpm | | 1075 | 1075 | 1075 | 1075 | |
| | Watts (total) | | 860 | 860 | 1000 | 1000 | |
| | Diameter (Number) - in. | | (2) 24 | (2) 24 | (2) 24 | (2) 24 | |
| | Blades | | 3 | 3 | 3 | 3 | |
| | Total Air volume - cfm | | 9000 | 9000 | 9700 | 9700 | |
| | | | | | | | |
| Indoor Coil | Net face area - ft. ² (total) | | 13.54 | 13.54 | 13.54 | 13.54 | |
| | Tube diameter - in. | | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Rows | | 4 | 4 | 4 | 4 | |
| | Fins - in. | | 14 | 14 | 14 | 14 | |
| | Condensate drain size (NPT) - in. | | (1) 1 | | | | |
| | Expansion device type | | Balanced Port Thermostatic Expansion Valve, removable power element | | | | |
| Indoor Blower | Motor HP (number and type) | | 3.75 (1 ECM) | 3.75 (1 ECM) | 3.75 (1 ECM) | 3.75 (1 ECM) | |
| | Wheel (Number) diameter x width - in. | | (1) 22 x 9 | (1) 22 x 9 | (1) 22 x 9 | (1) 22 x 9 | |
| Filters | Type of filter | | MERV 4, Disposable | | | | |
| | Number and size - in. | | (4) 20 x 25 x 2 | | | | |
| Line voltage data (Volts-Phase-Hz) | | | 208/230-3-60, 460-3-60, 575-3-60 | | | | |

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

¹ AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

| SPECIFICATIONS | | | VAV MODELS | | | | |
|---|--|-----------|--|---|---|---|----|
| Model | | | LGT092H5P | LGT102H5P | LGT120H5P | LGT150H5P | |
| Nominal Tonnage | | | 7.5 Ton | 8.5 Ton | 10 Ton | 12.5 Ton | |
| Efficiency Type | | | High | High | High | High | |
| Blower Type | | | DirectPlus™ ECM Direct Drive with VAV | DirectPlus™ ECM Direct Drive with VAV | DirectPlus™ ECM Direct Drive with VAV | DirectPlus™ ECM Direct Drive with VAV | |
| Cooling Performance | Gross Cooling Capacity (Btuh) | | 94,000 | 103,000 | 121,000 | 142,000 | |
| | ¹ Net Cooling Capacity (Btuh) | | 92,000 | 100,000 | 118,000 | 138,000 | |
| | ¹ AHRI Rated Air Flow (cfm) | | 3000 | 3400 | 3400 | 4100 | |
| | ¹ IEER (Btuh/Watt) | | 15.5 | 15.5 | 15.5 | 14.6 | |
| | ¹ EER (Btuh/Watt) | | 12.3 | 12.1 | 12.1 | 10.8 | |
| | Total Unit Power (kW) | | 7.6 | 8.0 | 9.9 | 12.8 | |
| Sound Rating Number | | | dBA | 88 | 88 | 89 | 89 |
| Refrigerant Charge | Refrigerant Type | | R-454B | R-454B | R-454B | R-454B | |
| | Without Reheat Option | Circuit 1 | 6 lbs. 4 oz. | 6 lbs. 4 oz. | 5 lbs. 14 oz. | 5 lbs. 12 oz. | |
| | | Circuit 2 | 5 lbs. 14 oz. | 5 lbs. 14 oz. | 5 lbs. 14 oz. | 6 lbs. 4 oz. | |
| Gas Heat Available | | | See page 26 | | | | |
| Compressor Type (number) | | | Two-Stage Scroll (1) Single-Stage Scroll (1) | | | | |
| Outdoor Coil | Net face area - ft. ² (total) | | 27.5 | 27.5 | 27.5 | 27.5 | |
| | Rows | | 1 | 1 | 1 | 1 | |
| | Fins - in. | | 20 | 20 | 20 | 20 | |
| Outdoor Coil Fans | Motor (number) HP (type) | | (2) 1/3 (PSC) | (2) 1/3 (PSC) | (2) 1/2 (PSC) | (2) 1/2 (PSC) | |
| | Rpm | | 1075 | 1075 | 1075 | 1075 | |
| | Watts (total) | | 860 | 860 | 1000 | 1000 | |
| | Diameter (Number) - in. | | (2) 24 | (2) 24 | (2) 24 | (2) 24 | |
| | Blades | | 3 | 3 | 3 | 3 | |
| | Total Air volume - cfm | | 9000 | 9000 | 9700 | 9700 | |
| Indoor Coil | Net face area - ft. ² (total) | | 13.54 | 13.54 | 13.54 | 13.54 | |
| | Tube diameter - in. | | 3/8 | 3/8 | 3/8 | 3/8 | |
| | Rows | | 4 | 4 | 4 | 4 | |
| | Fins - in. | | 14 | 14 | 14 | 14 | |
| | Condensate drain size (NPT) - in. | | (1) 1 | | | | |
| | Expansion device type | | Balanced Port Thermostatic Expansion Valve,removable power element | | | | |
| Indoor Blower | Motor HP (number and type) | | 3.75 (1 ECM) | 3.75 (1 ECM) | 3.75 (1 ECM) | 3.75 (1 ECM) | |
| | Wheel (Number) diameter x width - in. | | (1) 22 x 9 | (1) 22 x 9 | (1) 22 x 9 | (1) 22 x 9 | |
| Filters | Type of filter | | MERV 4, Disposable | | | | |
| | Number and size - in. | | (4) 20 x 25 x 2 | | | | |
| Line voltage data (Volts-Phase-Hz) | | | 208/230-3-60, 460-3-60, 575-3-60 | | | | |

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

¹ AHRI Certified to AHRI Standard 340/360; 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

| SPECIFICATIONS | | | GAS HEAT | | |
|--|---------------|---------|--------------------------|----------------------|-------------|
| Heat Input Type | | | Standard | Medium | High |
| Gas Heat Type | | | Two-Stage or Modulating | | |
| Gas Heating Performance | Input - Btuh | Minimum | 85,000 | 117,000 | 156,000 |
| | | Maximum | 130,000 | 180,000 | 240,000 |
| | Output - Btuh | Maximum | 105,000 | 146,000 | 194,000 |
| Temperature Rise Range - °F | | | 15 - 45 | 30 - 60 | 40 - 70 |
| Minimum Air Volume - cfm | | | 2150 | 2250 | 2600 |
| Thermal Efficiency | | | 81% | 81% | 81% |
| Gas Supply Connections | | | 3/4 in. NPT | 3/4 in. NPT | 3/4 in. NPT |
| Recommended Gas Supply Pressure - Nat. / LPG | | | 7 in. w.g. / 11 in. w.g. | | |
| Gas Supply Pressure Range | | | Min./Max. (Natural) | 4.7 - 10.5 in. w.g. | |
| | | | Min./Max. (LPG) | 10.8 - 13.5 in. w.g. | |

NOTE - Modulating Gas Heat operates between the minimum and maximum gas heat inputs shown.

NOTE - Air volume may modulate below minimum volume if heat input is below maximum.

HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 2000 feet above sea level without any modifications.

At altitudes above 2000 feet units must be derated to match gas manifold pressures shown in table below.

At altitudes above 4500 feet unit must be derated 4% for each 1000 feet above sea level.

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

Refer to the Installation Instructions for more detailed information.

| Heat Input Type | Altitude Feet | Gas Manifold Pressure in. w.g. | | Input Rate (Btuh) |
|-----------------|---------------|-----------------------------------|--------------|-------------------|
| | | Natural Gas | LPG/ Propane | |
| Standard | 2001 - 4500 | 1.6 / 3.1 | 4.4 / 8.9 | 85,000 - 120,000 |
| Medium | 2001 - 4500 | 1.6 / 3.1 | 4.4 / 8.9 | 117,000 - 166,000 |
| High | 2001 - 4500 | 1.6 / 3.1 | 4.4 / 8.9 | 156,000 - 221,000 |

RATINGS

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

7.5 TON - LGT092H5E/P (1 COMPRESSOR - PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 65°F | | | | | | 75°F | | | | | | 85°F | | | | | | 95°F | | | | | |
| | | 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 | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 1440 | 40.6 | 1.15 | 0.78 | 0.96 | 1 | 38.2 | 1.4 | 0.8 | 1 | 1 | 35.7 | 1.69 | 0.82 | 1 | 1 | 33 | 2.02 | 0.84 | 1 | 1 | | | | |
| | 1800 | 43.4 | 1.07 | 0.85 | 1 | 1 | 41 | 1.34 | 0.87 | 1 | 1 | 38.4 | 1.65 | 0.9 | 1 | 1 | 35.6 | 1.99 | 0.95 | 1 | 1 | | | | |
| | 2160 | 45.7 | 1 | 0.91 | 1 | 1 | 43.2 | 1.29 | 0.96 | 1 | 1 | 40.5 | 1.62 | 1 | 1 | 1 | 37.5 | 1.97 | 1 | 1 | 1 | | | | |
| 67°F | 1440 | 42.7 | 1.09 | 0.62 | 0.77 | 0.91 | 40.2 | 1.36 | 0.62 | 0.78 | 0.95 | 37.4 | 1.67 | 0.63 | 0.8 | 1 | 34.4 | 2 | 0.63 | 0.82 | 1 | | | | |
| | 1800 | 44.9 | 1.03 | 0.66 | 0.83 | 1 | 42.2 | 1.31 | 0.67 | 0.85 | 1 | 39.3 | 1.64 | 0.68 | 0.88 | 1 | 36.1 | 1.99 | 0.69 | 0.91 | 1 | | | | |
| | 2160 | 46.4 | 0.98 | 0.7 | 0.9 | 1 | 43.6 | 1.28 | 0.71 | 0.93 | 1 | 40.6 | 1.62 | 0.73 | 0.98 | 1 | 37.5 | 1.97 | 0.75 | 1 | 1 | | | | |
| 71°F | 1440 | 45.2 | 1.02 | 0.46 | 0.61 | 0.75 | 42.6 | 1.31 | 0.46 | 0.61 | 0.76 | 39.7 | 1.63 | 0.45 | 0.62 | 0.78 | 36.6 | 1.98 | 0.45 | 0.63 | 0.8 | | | | |
| | 1800 | 47.3 | 0.95 | 0.49 | 0.65 | 0.81 | 44.5 | 1.26 | 0.48 | 0.66 | 0.83 | 41.5 | 1.6 | 0.48 | 0.68 | 0.86 | 38.3 | 1.97 | 0.48 | 0.69 | 0.89 | | | | |
| | 2160 | 48.8 | 0.9 | 0.51 | 0.7 | 0.88 | 45.9 | 1.23 | 0.51 | 0.71 | 0.9 | 42.8 | 1.58 | 0.51 | 0.73 | 0.95 | 39.4 | 1.95 | 0.51 | 0.75 | 1 | | | | |

7.5 TON - LGT092H5E/P (2 COMPRESSORS - PART LOAD / FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|--|--|--|--|
| | | 85°F | | | | | | 95°F | | | | | | 105°F | | | | | | 115°F | | | | | |
| | | 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 | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 1920 | 74.2 | 4.4 | 0.66 | 0.8 | 0.91 | 68.7 | 5.02 | 0.67 | 0.81 | 0.93 | 62.9 | 5.72 | 0.67 | 0.83 | 0.96 | 56.3 | 6.47 | 0.7 | 0.86 | 1 | | | | |
| | 2400 | 80.1 | 4.37 | 0.72 | 0.86 | 0.98 | 74.4 | 5 | 0.74 | 0.88 | 1 | 68.5 | 5.71 | 0.76 | 0.91 | 1 | 61.5 | 6.47 | 0.79 | 0.95 | 1 | | | | |
| | 2880 | 85.1 | 4.34 | 0.78 | 0.92 | 1 | 78.9 | 4.99 | 0.79 | 0.95 | 1 | 72.4 | 5.7 | 0.82 | 0.98 | 1 | 65.7 | 6.47 | 0.85 | 1 | 1 | | | | |
| 67°F | 1920 | 79.8 | 4.36 | 0.52 | 0.65 | 0.76 | 74.1 | 4.99 | 0.52 | 0.65 | 0.78 | 67.7 | 5.69 | 0.51 | 0.65 | 0.8 | 60.5 | 6.45 | 0.51 | 0.67 | 0.83 | | | | |
| | 2400 | 85.1 | 4.32 | 0.56 | 0.7 | 0.83 | 78.5 | 4.97 | 0.55 | 0.71 | 0.85 | 71.7 | 5.69 | 0.56 | 0.72 | 0.88 | 64.4 | 6.47 | 0.56 | 0.76 | 0.91 | | | | |
| | 2880 | 88.7 | 4.29 | 0.59 | 0.75 | 0.89 | 81.9 | 4.96 | 0.6 | 0.78 | 0.92 | 74.9 | 5.67 | 0.59 | 0.81 | 0.95 | 67.8 | 6.46 | 0.62 | 0.83 | 1 | | | | |
| 71°F | 1920 | 86.3 | 4.32 | 0.4 | 0.51 | 0.62 | 80 | 4.97 | 0.38 | 0.5 | 0.63 | 73.5 | 5.68 | 0.37 | 0.51 | 0.64 | 66.4 | 6.46 | 0.35 | 0.51 | 0.65 | | | | |
| | 2400 | 91.5 | 4.27 | 0.41 | 0.54 | 0.68 | 84.7 | 4.94 | 0.4 | 0.55 | 0.68 | 77.7 | 5.67 | 0.39 | 0.55 | 0.71 | 70.3 | 6.45 | 0.39 | 0.56 | 0.73 | | | | |
| | 2880 | 94.8 | 4.25 | 0.43 | 0.58 | 0.73 | 88.1 | 4.91 | 0.42 | 0.58 | 0.74 | 80.9 | 5.66 | 0.41 | 0.6 | 0.78 | 73 | 6.45 | 0.41 | 0.6 | 0.8 | | | | |

7.5 TON - LGT092H5E/P (2 COMPRESSORS - FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|--|--|--|--|
| | | 85°F | | | | | | 95°F | | | | | | 105°F | | | | | | 115°F | | | | | |
| | | 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 | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 2400 | 90.9 | 5.32 | 0.68 | 0.8 | 0.91 | 85.2 | 6.03 | 0.68 | 0.82 | 0.93 | 79.5 | 6.94 | 0.69 | 0.83 | 0.96 | 72.9 | 7.86 | 0.71 | 0.86 | 0.99 | | | | |
| | 3000 | 97.4 | 5.3 | 0.73 | 0.87 | 0.99 | 91.3 | 6.02 | 0.74 | 0.88 | 1 | 85 | 6.91 | 0.76 | 0.91 | 1 | 78.2 | 7.83 | 0.78 | 0.94 | 1 | | | | |
| | 3600 | 102.6 | 5.29 | 0.79 | 0.92 | 1 | 96.2 | 6.01 | 0.8 | 0.95 | 1 | 89.4 | 6.88 | 0.82 | 0.98 | 1 | 82.2 | 7.8 | 0.85 | 1 | 1 | | | | |
| 67°F | 2400 | 96.2 | 5.3 | 0.53 | 0.66 | 0.78 | 89.8 | 6.02 | 0.54 | 0.66 | 0.79 | 83.2 | 6.91 | 0.53 | 0.68 | 0.8 | 76.2 | 7.81 | 0.54 | 0.69 | 0.83 | | | | |
| | 3000 | 101.6 | 5.28 | 0.56 | 0.71 | 0.84 | 94.7 | 6 | 0.57 | 0.72 | 0.86 | 88.1 | 6.88 | 0.58 | 0.73 | 0.88 | 81 | 7.78 | 0.58 | 0.76 | 0.91 | | | | |
| | 3600 | 105.9 | 5.27 | 0.6 | 0.76 | 0.9 | 99.3 | 5.99 | 0.61 | 0.78 | 0.92 | 92.3 | 6.86 | 0.62 | 0.8 | 0.95 | 84.9 | 7.77 | 0.64 | 0.82 | 0.99 | | | | |
| 71°F | 2400 | 103.2 | 5.26 | 0.41 | 0.52 | 0.63 | 96.4 | 6 | 0.39 | 0.53 | 0.64 | 89.7 | 6.87 | 0.39 | 0.52 | 0.65 | 82.3 | 7.78 | 0.38 | 0.52 | 0.67 | | | | |
| | 3000 | 108.5 | 5.26 | 0.42 | 0.56 | 0.69 | 101.3 | 5.98 | 0.42 | 0.57 | 0.7 | 94.2 | 6.84 | 0.41 | 0.57 | 0.72 | 86.3 | 7.75 | 0.4 | 0.58 | 0.73 | | | | |
| | 3600 | 111.9 | 5.19 | 0.43 | 0.59 | 0.75 | 105.1 | 5.97 | 0.43 | 0.6 | 0.76 | 97.5 | 6.8 | 0.43 | 0.61 | 0.77 | 89.5 | 7.73 | 0.43 | 0.63 | 0.79 | | | | |

RATINGS

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

8.5 TON - LGT102H5E/P (1 COMPRESSOR - PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 1600 | 41.7 | 1.11 | 0.81 | 1 | 1 | 39.4 | 1.36 | 0.83 | 1 | 1 | 36.9 | 1.66 | 0.85 | 1 | 1 | 34.1 | 1.99 | 0.88 | 1 | 1 |
| | 2000 | 44.6 | 1.02 | 0.88 | 1 | 1 | 42.1 | 1.3 | 0.9 | 1 | 1 | 39.5 | 1.62 | 0.93 | 1 | 1 | 36.6 | 1.96 | 1 | 1 | 1 |
| | 2400 | 46.8 | 0.96 | 0.95 | 1 | 1 | 44.2 | 1.25 | 1 | 1 | 1 | 41.4 | 1.59 | 1 | 1 | 1 | 38.4 | 1.95 | 1 | 1 | 1 |
| 67°F | 1600 | 43.7 | 1.05 | 0.63 | 0.79 | 0.94 | 41.1 | 1.33 | 0.64 | 0.81 | 1 | 38.2 | 1.64 | 0.65 | 0.83 | 1 | 35.1 | 1.98 | 0.66 | 0.86 | 1 |
| | 2000 | 45.7 | 0.99 | 0.68 | 0.86 | 1 | 43 | 1.28 | 0.69 | 0.89 | 1 | 40 | 1.61 | 0.7 | 0.91 | 1 | 36.7 | 1.96 | 0.72 | 0.95 | 1 |
| | 2400 | 47.2 | 0.94 | 0.72 | 0.93 | 1 | 44.3 | 1.25 | 0.74 | 0.99 | 1 | 41.4 | 1.59 | 0.75 | 1 | 1 | 38.4 | 1.95 | 0.78 | 1 | 1 |
| 71°F | 1600 | 46 | 0.99 | 0.47 | 0.63 | 0.77 | 43.3 | 1.28 | 0.47 | 0.64 | 0.79 | 40.4 | 1.61 | 0.47 | 0.64 | 0.81 | 37.2 | 1.96 | 0.46 | 0.66 | 0.84 |
| | 2000 | 47.9 | 0.93 | 0.5 | 0.68 | 0.84 | 45 | 1.24 | 0.5 | 0.69 | 0.87 | 42 | 1.58 | 0.5 | 0.7 | 0.9 | 38.7 | 1.94 | 0.5 | 0.72 | 0.93 |
| | 2400 | 49.5 | 0.87 | 0.52 | 0.72 | 0.91 | 46.5 | 1.2 | 0.52 | 0.74 | 0.94 | 43.4 | 1.56 | 0.52 | 0.75 | 1 | 40 | 1.93 | 0.53 | 0.78 | 1 |

8.5 TON - LGT102H5E/P (2 COMPRESSORS - PART LOAD / FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 85°F | | | | | 95°F | | | | | 105°F | | | | | 115°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 2160 | 79.1 | 4.54 | 0.67 | 0.83 | 0.93 | 73.3 | 5.19 | 0.69 | 0.83 | 0.96 | 67.2 | 5.91 | 0.7 | 0.86 | 0.99 | 60.8 | 6.69 | 0.71 | 0.89 | 1 |
| | 2700 | 85.4 | 4.52 | 0.74 | 0.88 | 1 | 79.3 | 5.18 | 0.75 | 0.91 | 1 | 72.8 | 5.9 | 0.78 | 0.94 | 1 | 66 | 6.71 | 0.8 | 0.98 | 1 |
| | 3240 | 90.2 | 4.48 | 0.8 | 0.95 | 1 | 83.8 | 5.16 | 0.82 | 0.98 | 1 | 77.2 | 5.9 | 0.85 | 1 | 1 | 70.4 | 6.7 | 0.88 | 1 | 1 |
| 67°F | 2160 | 85 | 4.5 | 0.53 | 0.65 | 0.78 | 78.5 | 5.16 | 0.53 | 0.67 | 0.8 | 71.8 | 5.89 | 0.53 | 0.68 | 0.83 | 64.6 | 6.68 | 0.53 | 0.69 | 0.86 |
| | 2700 | 89.9 | 4.47 | 0.56 | 0.71 | 0.86 | 83.3 | 5.14 | 0.57 | 0.73 | 0.88 | 76.1 | 5.88 | 0.58 | 0.74 | 0.91 | 68.5 | 6.69 | 0.58 | 0.78 | 0.95 |
| | 3240 | 93.1 | 4.45 | 0.61 | 0.78 | 0.92 | 86.4 | 5.13 | 0.62 | 0.8 | 0.95 | 79.4 | 5.88 | 0.62 | 0.82 | 0.99 | 72 | 6.69 | 0.64 | 0.86 | 1 |
| 71°F | 2160 | 91.4 | 4.46 | 0.4 | 0.52 | 0.63 | 84.9 | 5.13 | 0.39 | 0.52 | 0.64 | 78 | 5.88 | 0.37 | 0.52 | 0.65 | 70.8 | 6.69 | 0.37 | 0.52 | 0.67 |
| | 2700 | 96.1 | 4.44 | 0.42 | 0.56 | 0.7 | 89.4 | 5.12 | 0.4 | 0.56 | 0.71 | 82.4 | 5.87 | 0.4 | 0.57 | 0.73 | 74.5 | 6.68 | 0.39 | 0.58 | 0.77 |
| | 3240 | 99.7 | 4.37 | 0.44 | 0.59 | 0.76 | 92.6 | 5.1 | 0.43 | 0.6 | 0.77 | 85.5 | 5.81 | 0.42 | 0.62 | 0.79 | 77.3 | 6.69 | 0.43 | 0.63 | 0.82 |

8.5 TON - LGT102H5E/P (2 COMPRESSORS - FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 85°F | | | | | 95°F | | | | | 105°F | | | | | 115°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 2720 | 99.7 | 5.43 | 0.7 | 0.82 | 0.94 | 93.7 | 6.16 | 0.7 | 0.84 | 0.96 | 87.1 | 7.01 | 0.72 | 0.86 | 0.99 | 80.4 | 8.08 | 0.73 | 0.88 | 1 |
| | 3400 | 106.3 | 5.42 | 0.75 | 0.89 | 1 | 99.8 | 6.15 | 0.77 | 0.91 | 1 | 93 | 6.99 | 0.78 | 0.94 | 1 | 85.9 | 8.03 | 0.81 | 0.98 | 1 |
| | 4080 | 111.1 | 5.36 | 0.81 | 0.96 | 1 | 104.5 | 6.14 | 0.83 | 0.99 | 1 | 97.6 | 6.99 | 0.85 | 1 | 1 | 90.5 | 7.96 | 0.88 | 1 | 1 |
| 67°F | 2720 | 104.6 | 5.41 | 0.54 | 0.67 | 0.79 | 97.7 | 6.14 | 0.54 | 0.68 | 0.81 | 90.9 | 6.98 | 0.55 | 0.69 | 0.83 | 83.5 | 8.04 | 0.54 | 0.72 | 0.85 |
| | 3400 | 110.1 | 5.35 | 0.58 | 0.73 | 0.86 | 103.1 | 6.13 | 0.59 | 0.76 | 0.89 | 96.1 | 6.95 | 0.6 | 0.76 | 0.91 | 88.8 | 7.99 | 0.6 | 0.78 | 0.95 |
| | 4080 | 114.2 | 5.41 | 0.62 | 0.79 | 0.93 | 107.3 | 6.15 | 0.63 | 0.81 | 0.96 | 100.3 | 6.97 | 0.64 | 0.83 | 0.99 | 92.6 | 7.93 | 0.66 | 0.85 | 1 |
| 71°F | 2720 | 111.7 | 5.42 | 0.41 | 0.53 | 0.66 | 104.7 | 6.12 | 0.4 | 0.54 | 0.67 | 97.8 | 6.95 | 0.4 | 0.54 | 0.67 | 90.1 | 7.98 | 0.38 | 0.54 | 0.7 |
| | 3400 | 116.8 | 5.4 | 0.43 | 0.58 | 0.72 | 109.7 | 6.08 | 0.41 | 0.57 | 0.73 | 101.9 | 6.95 | 0.42 | 0.59 | 0.74 | 94.3 | 7.91 | 0.42 | 0.61 | 0.75 |
| | 4080 | 120.7 | 5.38 | 0.44 | 0.61 | 0.76 | 113.2 | 6.13 | 0.45 | 0.63 | 0.78 | 105.3 | 6.96 | 0.45 | 0.64 | 0.8 | 96.8 | 7.88 | 0.45 | 0.66 | 0.82 |

RATINGS

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

10 TON - LGT120H5E/P (1 COMPRESSOR - PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|--|--|--|--|
| | | 65°F | | | | | | 75°F | | | | | | 85°F | | | | | | 95°F | | | | | |
| | | 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 | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 1920 | 51.5 | 1.56 | 0.79 | 1 | 1 | 48.9 | 1.87 | 0.81 | 1 | 1 | 46.2 | 2.2 | 0.83 | 1 | 1 | 43 | 2.58 | 0.86 | 1 | 1 | | | | |
| | 2400 | 55.1 | 1.55 | 0.86 | 1 | 1 | 52.2 | 1.85 | 0.88 | 1 | 1 | 49.3 | 2.19 | 0.91 | 1 | 1 | 45.9 | 2.57 | 1 | 1 | 1 | | | | |
| | 2880 | 57.8 | 1.53 | 0.92 | 1 | 1 | 54.7 | 1.84 | 1 | 1 | 1 | 51.7 | 2.19 | 1 | 1 | 1 | 48.1 | 2.56 | 1 | 1 | 1 | | | | |
| 67°F | 1920 | 54 | 1.55 | 0.62 | 0.77 | 0.92 | 51 | 1.86 | 0.63 | 0.79 | 1 | 47.9 | 2.2 | 0.63 | 0.81 | 1 | 44.3 | 2.57 | 0.65 | 0.84 | 1 | | | | |
| | 2400 | 56.6 | 1.54 | 0.66 | 0.84 | 1 | 53.3 | 1.85 | 0.68 | 0.87 | 1 | 50 | 2.19 | 0.69 | 0.89 | 1 | 46.2 | 2.57 | 0.7 | 0.93 | 1 | | | | |
| | 2880 | 58.4 | 1.53 | 0.71 | 0.91 | 1 | 55 | 1.84 | 0.72 | 0.97 | 1 | 51.7 | 2.18 | 0.74 | 1 | 1 | 48.1 | 2.56 | 0.76 | 1 | 1 | | | | |
| 71°F | 1920 | 57.3 | 1.54 | 0.46 | 0.61 | 0.76 | 54.1 | 1.85 | 0.46 | 0.62 | 0.77 | 50.8 | 2.19 | 0.46 | 0.63 | 0.79 | 47.1 | 2.56 | 0.46 | 0.64 | 0.82 | | | | |
| | 2400 | 59.7 | 1.53 | 0.48 | 0.66 | 0.82 | 56.3 | 1.84 | 0.48 | 0.67 | 0.85 | 52.9 | 2.18 | 0.49 | 0.69 | 0.87 | 48.9 | 2.56 | 0.49 | 0.7 | 0.91 | | | | |
| | 2880 | 61.4 | 1.52 | 0.51 | 0.71 | 0.89 | 57.9 | 1.83 | 0.51 | 0.72 | 0.92 | 54 | 2.18 | 0.52 | 0.74 | 1 | 50.1 | 2.56 | 0.52 | 0.77 | 1 | | | | |

10 TON - LGT120H5E/P (2 COMPRESSORS - PART LOAD / FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|--|--|--|--|
| | | 85°F | | | | | | 95°F | | | | | | 105°F | | | | | | 115°F | | | | | |
| | | 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 | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 2560 | 98 | 5.68 | 0.66 | 0.81 | 0.92 | 91.8 | 6.54 | 0.68 | 0.82 | 0.95 | 85.4 | 7.51 | 0.68 | 0.84 | 0.98 | 78.5 | 8.59 | 0.7 | 0.87 | 1 | | | | |
| | 3200 | 104.9 | 5.7 | 0.72 | 0.88 | 1 | 98.6 | 6.55 | 0.74 | 0.9 | 1 | 92.3 | 7.5 | 0.77 | 0.92 | 1 | 84.7 | 8.6 | 0.77 | 0.96 | 1 | | | | |
| | 3840 | 110.5 | 5.69 | 0.78 | 0.94 | 1 | 103.9 | 6.51 | 0.8 | 0.97 | 1 | 96.9 | 7.53 | 0.83 | 1 | 1 | 89.6 | 8.6 | 0.86 | 1 | 1 | | | | |
| 67°F | 2560 | 104.6 | 5.68 | 0.53 | 0.64 | 0.77 | 98 | 6.54 | 0.52 | 0.66 | 0.79 | 91.1 | 7.48 | 0.53 | 0.66 | 0.81 | 83.5 | 8.57 | 0.52 | 0.68 | 0.84 | | | | |
| | 3200 | 110.3 | 5.67 | 0.55 | 0.69 | 0.85 | 103.3 | 6.51 | 0.56 | 0.71 | 0.87 | 95.8 | 7.51 | 0.57 | 0.74 | 0.89 | 88.1 | 8.56 | 0.58 | 0.77 | 0.93 | | | | |
| | 3840 | 114.5 | 5.67 | 0.59 | 0.76 | 0.91 | 107.4 | 6.55 | 0.6 | 0.78 | 0.94 | 99.5 | 7.5 | 0.62 | 0.82 | 0.97 | 91.7 | 8.58 | 0.62 | 0.84 | 1 | | | | |
| 71°F | 2560 | 112.2 | 5.67 | 0.4 | 0.51 | 0.62 | 105.3 | 6.55 | 0.39 | 0.52 | 0.63 | 98.1 | 7.45 | 0.37 | 0.51 | 0.65 | 90.4 | 8.57 | 0.37 | 0.52 | 0.66 | | | | |
| | 3200 | 118 | 5.68 | 0.42 | 0.56 | 0.68 | 110.8 | 6.54 | 0.4 | 0.55 | 0.69 | 102.9 | 7.47 | 0.4 | 0.56 | 0.72 | 94.8 | 8.59 | 0.39 | 0.57 | 0.74 | | | | |
| | 3840 | 122.1 | 5.69 | 0.42 | 0.59 | 0.74 | 114.3 | 6.53 | 0.42 | 0.59 | 0.76 | 106.5 | 7.53 | 0.43 | 0.6 | 0.79 | 97.6 | 8.54 | 0.43 | 0.61 | 0.8 | | | | |

10 TON - LGT120H5E/P (2 COMPRESSORS - FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|-------|------|--|--|--|--|
| | | 85°F | | | | | | 95°F | | | | | | 105°F | | | | | | 115°F | | | | | |
| | | 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 | | | | | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | | | | | |
| 63°F | 3200 | 121.5 | 7.07 | 0.68 | 0.8 | 0.92 | 114.3 | 8.03 | 0.69 | 0.82 | 0.95 | 107 | 9.14 | 0.7 | 0.84 | 0.98 | 99.7 | 10.38 | 0.72 | 0.87 | 1 | | | | |
| | 4000 | 128.7 | 7.1 | 0.74 | 0.88 | 1 | 121.5 | 8.06 | 0.75 | 0.9 | 1 | 113.8 | 9.18 | 0.77 | 0.92 | 1 | 105.4 | 10.43 | 0.79 | 0.96 | 1 | | | | |
| | 4800 | 134.4 | 7.11 | 0.79 | 0.94 | 1 | 126.9 | 8.09 | 0.81 | 0.97 | 1 | 118.9 | 9.22 | 0.83 | 1 | 1 | 110.3 | 10.45 | 0.86 | 1 | 1 | | | | |
| 67°F | 3200 | 127.5 | 7.1 | 0.53 | 0.66 | 0.78 | 119.8 | 8.05 | 0.53 | 0.66 | 0.79 | 111.5 | 9.16 | 0.54 | 0.68 | 0.81 | 103.7 | 10.4 | 0.54 | 0.7 | 0.84 | | | | |
| | 4000 | 133.4 | 7.13 | 0.56 | 0.71 | 0.85 | 125.7 | 8.09 | 0.57 | 0.73 | 0.87 | 117.3 | 9.2 | 0.58 | 0.74 | 0.9 | 108.9 | 10.45 | 0.59 | 0.77 | 0.93 | | | | |
| | 4800 | 138.1 | 7.2 | 0.6 | 0.77 | 0.92 | 130.1 | 8.13 | 0.61 | 0.79 | 0.95 | 122.1 | 9.23 | 0.62 | 0.81 | 0.98 | 112.8 | 10.46 | 0.63 | 0.84 | 1 | | | | |
| 71°F | 3200 | 135.5 | 7.17 | 0.4 | 0.52 | 0.63 | 127.9 | 8.1 | 0.39 | 0.53 | 0.65 | 119.5 | 9.21 | 0.39 | 0.53 | 0.66 | 110.6 | 10.45 | 0.38 | 0.53 | 0.67 | | | | |
| | 4000 | 141.6 | 7.18 | 0.42 | 0.56 | 0.7 | 133 | 8.16 | 0.41 | 0.57 | 0.71 | 124.7 | 9.26 | 0.41 | 0.58 | 0.73 | 114.7 | 10.47 | 0.42 | 0.59 | 0.74 | | | | |
| | 4800 | 145.9 | 7.22 | 0.43 | 0.6 | 0.74 | 137 | 8.16 | 0.43 | 0.61 | 0.76 | 128.3 | 9.29 | 0.44 | 0.62 | 0.78 | 118.4 | 10.51 | 0.44 | 0.63 | 0.81 | | | | |

RATINGS

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

12.5 TON - LGT150H5E/P (1 COMPRESSOR - PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 2080 | 57.9 | 2.15 | 0.77 | 0.95 | 1 | 55 | 2.48 | 0.78 | 0.99 | 1 | 51.7 | 2.84 | 0.8 | 1 | 1 | 48.5 | 3.26 | 0.82 | 1 | 1 |
| | 2600 | 61.6 | 2.14 | 0.82 | 1 | 1 | 58.8 | 2.47 | 1 | 1 | 1 | 55.6 | 2.84 | 0.87 | 1 | 1 | 52 | 3.26 | 0.92 | 1 | 1 |
| | 3120 | 64.9 | 2.14 | 0.89 | 1 | 1 | 61.5 | 2.46 | 0.94 | 1 | 1 | 58.2 | 2.84 | 0.99 | 1 | 1 | 54.6 | 3.26 | 1 | 1 | 1 |
| 67°F | 2080 | 60.8 | 2.14 | 0.6 | 0.75 | 0.89 | 56.5 | 2.47 | 0.61 | 0.61 | 0.61 | 54 | 2.84 | 0.62 | 0.78 | 0.98 | 50.6 | 3.26 | 0.62 | 0.8 | 1 |
| | 2600 | 64 | 2.14 | 0.64 | 0.81 | 1 | 60.5 | 2.47 | 0.65 | 0.83 | 1 | 57.1 | 2.84 | 0.66 | 0.85 | 1 | 52.9 | 3.26 | 0.68 | 0.88 | 1 |
| | 3120 | 66.4 | 2.13 | 0.68 | 0.87 | 1 | 62.4 | 2.46 | 0.69 | 0.9 | 1 | 58.6 | 2.83 | 0.71 | 0.95 | 1 | 54.7 | 3.26 | 0.73 | 1 | 1 |
| 71°F | 2080 | 64.6 | 2.14 | 0.45 | 0.6 | 0.73 | 66.2 | 2.45 | 1 | 1 | 1 | 57.6 | 2.84 | 0.45 | 0.61 | 0.77 | 53.8 | 3.26 | 0.45 | 0.62 | 0.78 |
| | 2600 | 67.8 | 2.13 | 0.48 | 0.64 | 0.79 | 63.9 | 2.46 | 0.47 | 0.65 | 0.81 | 60.1 | 2.83 | 0.47 | 0.66 | 0.83 | 56.2 | 3.25 | 0.48 | 0.67 | 0.86 |
| | 3120 | 70 | 2.12 | 0.5 | 0.68 | 0.85 | 65.9 | 2.45 | 0.49 | 0.69 | 0.87 | 61.8 | 2.82 | 0.5 | 0.71 | 0.92 | 57.9 | 3.25 | 0.5 | 0.72 | 0.98 |

12.5 TON - LGT150H5E/P (2 COMPRESSORS - PART LOAD / FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 85°F | | | | | 95°F | | | | | 105°F | | | | | 115°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 3200 | 120.5 | 7.74 | 0.66 | 0.81 | 0.93 | 113.7 | 8.78 | 0.67 | 0.83 | 0.95 | 106.3 | 9.89 | 0.69 | 0.84 | 0.98 | 98.7 | 11.27 | 0.69 | 0.87 | 1 |
| | 4000 | 128.6 | 7.77 | 0.7 | 0.88 | 1 | 121.3 | 8.81 | 0.72 | 0.9 | 1 | 113.6 | 9.96 | 0.76 | 0.93 | 1 | 105.2 | 11.25 | 0.79 | 0.97 | 1 |
| | 4800 | 135.2 | 7.81 | 0.78 | 0.94 | 1 | 127.4 | 8.85 | 0.8 | 0.97 | 1 | 119.3 | 10.07 | 0.83 | 1 | 1 | 110.8 | 11.38 | 0.86 | 1 | 1 |
| 67°F | 3200 | 129.1 | 7.76 | 0.52 | 0.64 | 0.77 | 121.4 | 8.83 | 0.51 | 0.64 | 0.79 | 112.6 | 9.97 | 0.52 | 0.67 | 0.81 | 104.2 | 11.23 | 0.52 | 0.68 | 0.84 |
| | 4000 | 135.4 | 7.8 | 0.55 | 0.69 | 0.85 | 127 | 8.84 | 0.56 | 0.71 | 0.87 | 118.5 | 9.99 | 0.56 | 0.72 | 0.9 | 109.1 | 11.34 | 0.58 | 0.76 | 0.93 |
| | 4800 | 140.2 | 7.83 | 0.58 | 0.76 | 0.92 | 131.7 | 8.87 | 0.59 | 0.78 | 0.95 | 122.5 | 10.03 | 0.61 | 0.82 | 0.98 | 113.2 | 11.33 | 0.62 | 0.84 | 1 |
| 71°F | 3200 | 137.9 | 7.81 | 0.39 | 0.51 | 0.62 | 129.9 | 8.86 | 0.38 | 0.51 | 0.62 | 121.4 | 10.05 | 0.38 | 0.51 | 0.63 | 112.1 | 11.37 | 0.38 | 0.52 | 0.65 |
| | 4000 | 144.9 | 7.86 | 0.41 | 0.54 | 0.66 | 136.2 | 8.9 | 0.4 | 0.55 | 0.69 | 127.2 | 10.06 | 0.41 | 0.55 | 0.7 | 117.2 | 11.33 | 0.4 | 0.56 | 0.74 |
| | 4800 | 149.8 | 7.88 | 0.42 | 0.57 | 0.74 | 140.2 | 8.92 | 0.42 | 0.59 | 0.75 | 130.9 | 10.08 | 0.42 | 0.59 | 0.78 | 120.8 | 11.35 | 0.43 | 0.61 | 0.8 |

12.5 TON - LGT150H5E/P (2 COMPRESSORS - FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 85°F | | | | | 95°F | | | | | 105°F | | | | | 115°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 4000 | 145.5 | 9.17 | 0.68 | 0.82 | 0.95 | 137.5 | 10.32 | 0.7 | 0.83 | 0.97 | 128.6 | 11.65 | 0.72 | 0.86 | 1 | 119.3 | 13.09 | 0.73 | 0.89 | 1 |
| | 5000 | 153.7 | 9.26 | 0.74 | 0.89 | 1 | 145.2 | 10.44 | 0.76 | 0.92 | 1 | 136.2 | 11.76 | 0.78 | 0.95 | 1 | 126.2 | 13.19 | 0.81 | 0.99 | 1 |
| | 6000 | 160.4 | 9.32 | 0.8 | 0.96 | 1 | 151.4 | 10.51 | 0.82 | 1 | 1 | 141.8 | 11.81 | 0.85 | 1 | 1 | 132.1 | 13.36 | 0.88 | 1 | 1 |
| 67°F | 4000 | 153 | 9.24 | 0.54 | 0.66 | 0.79 | 144 | 10.4 | 0.55 | 0.68 | 0.81 | 134.1 | 11.69 | 0.54 | 0.69 | 0.83 | 123.6 | 13.21 | 0.56 | 0.72 | 0.86 |
| | 5000 | 159.3 | 9.31 | 0.58 | 0.72 | 0.87 | 149.6 | 10.47 | 0.58 | 0.74 | 0.89 | 139.9 | 11.77 | 0.59 | 0.76 | 0.92 | 129.8 | 13.32 | 0.61 | 0.79 | 0.96 |
| | 6000 | 164.2 | 9.37 | 0.62 | 0.78 | 0.94 | 155 | 10.55 | 0.61 | 0.81 | 0.97 | 144.9 | 11.84 | 0.63 | 0.83 | 1 | 134.4 | 13.29 | 0.65 | 0.86 | 1 |
| 71°F | 4000 | 162.3 | 9.35 | 0.41 | 0.53 | 0.65 | 153.2 | 10.52 | 0.4 | 0.54 | 0.66 | 143.1 | 11.82 | 0.4 | 0.54 | 0.67 | 132.7 | 13.27 | 0.39 | 0.55 | 0.69 |
| | 5000 | 169 | 9.43 | 0.43 | 0.56 | 0.71 | 159.1 | 10.6 | 0.43 | 0.58 | 0.72 | 148.5 | 11.9 | 0.42 | 0.59 | 0.75 | 137.5 | 13.34 | 0.43 | 0.6 | 0.76 |
| | 6000 | 174.2 | 9.5 | 0.44 | 0.61 | 0.75 | 163.2 | 10.66 | 0.44 | 0.62 | 0.77 | 152.7 | 11.96 | 0.45 | 0.64 | 0.8 | 141.1 | 13.5 | 0.45 | 0.64 | 0.83 |

HUMIDITROL® DEHUMIDIFICATION SYSTEM RATINGS

7.5 TON - LGT092H5E WITH HUMIDITROL® OPERATING (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 1440 | 33.1 | 2.3 | .55 | .73 | .92 | 25.4 | 2.5 | .50 | .73 | .97 | 21.0 | 2.5 | .39 | .72 | 1.00 | 13.1 | 2.8 | .13 | .70 | 1.00 |
| | 1800 | 39.9 | 2.1 | .62 | .82 | .96 | 30.8 | 2.3 | .58 | .84 | .99 | 22.5 | 2.5 | .50 | .87 | 1.00 | 13.9 | 2.8 | .31 | .94 | 1.00 |
| | 2160 | 42.0 | 2.1 | .68 | .91 | .96 | 28.7 | 2.5 | .65 | .96 | .97 | 23.6 | 2.5 | .61 | .99 | .99 | 14.8 | 2.9 | .48 | 1.00 | 1.00 |
| 67°F | 1440 | 41.0 | 2.1 | .38 | .56 | .71 | 33.2 | 2.3 | .29 | .51 | .69 | 25.6 | 2.6 | .15 | .44 | .69 | 17.7 | 2.9 | -.13 | .30 | .67 |
| | 1800 | 44.5 | 2.1 | .43 | .62 | .79 | 31.8 | 2.5 | .35 | .56 | .80 | 27.0 | 2.6 | .21 | .53 | .82 | 18.4 | 2.9 | -.06 | .43 | .85 |
| | 2160 | 46.7 | 2.1 | .43 | .68 | .87 | 33.3 | 2.5 | .40 | .64 | .90 | 27.7 | 2.5 | .27 | .63 | .95 | 18.8 | 2.9 | .00 | .56 | 1.00 |
| 71°F | 1440 | 46.2 | 2.1 | .25 | .40 | .55 | 34.5 | 2.5 | .15 | .29 | .51 | 30.2 | 2.6 | -.02 | .24 | .46 | 22.5 | 2.9 | -.30 | .06 | .37 |
| | 1800 | 49.4 | 2.1 | .22 | .45 | .62 | 36.8 | 2.5 | .18 | .34 | .59 | 31.5 | 2.6 | .01 | .29 | .55 | 23.4 | 2.9 | -.29 | .13 | .49 |
| | 2160 | 51.9 | 2.1 | .29 | .49 | .67 | 38.4 | 2.5 | .19 | .39 | .66 | 33.1 | 2.6 | .02 | .35 | .64 | 23.8 | 2.9 | -.27 | .19 | .59 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

7.5 TON - LGT092H5E WITH HUMIDITROL® OPERATING (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-----|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 2400 | 80.3 | 3.8 | .55 | .69 | .81 | 68.5 | 4.2 | .51 | .68 | .82 | 56.7 | 4.7 | .46 | .67 | .83 | 43.9 | 5.3 | .39 | .65 | .85 |
| | 3000 | 87.0 | 3.8 | .61 | .75 | .88 | 74.3 | 4.2 | .58 | .75 | .90 | 61.6 | 4.7 | .56 | .75 | .95 | 48.4 | 5.3 | .49 | .75 | .96 |
| | 3600 | 91.9 | 3.8 | .65 | .81 | .94 | 78.4 | 4.2 | .65 | .82 | .95 | 64.8 | 4.7 | .63 | .83 | .96 | 50.6 | 5.3 | .59 | .85 | .97 |
| 67°F | 2400 | 88.6 | 3.8 | .40 | .54 | .67 | 76.8 | 4.2 | .35 | .52 | .67 | 64.2 | 4.7 | .28 | .48 | .65 | 52.3 | 5.3 | .18 | .43 | .64 |
| | 3000 | 94.4 | 3.8 | .43 | .59 | .74 | 81.3 | 4.2 | .38 | .59 | .74 | 67.9 | 4.7 | .31 | .56 | .74 | 54.8 | 5.3 | .24 | .52 | .73 |
| | 3600 | 98.1 | 3.8 | .47 | .66 | .80 | 84.4 | 4.2 | .42 | .64 | .80 | 70.4 | 4.7 | .38 | .63 | .81 | 56.5 | 5.3 | .28 | .60 | .82 |
| 71°F | 2400 | 91.7 | 3.9 | .25 | .38 | .51 | 86.1 | 4.2 | .21 | .36 | .51 | 74.0 | 4.7 | .14 | .31 | .48 | 61.0 | 5.3 | .02 | .23 | .44 |
| | 3000 | 103.8 | 3.9 | .29 | .44 | .59 | 90.6 | 4.2 | .20 | .40 | .57 | 77.5 | 4.7 | .15 | .36 | .56 | 63.4 | 5.3 | .04 | .28 | .52 |
| | 3600 | 106.4 | 3.9 | .31 | .49 | .65 | 88.5 | 4.4 | .21 | .43 | .64 | 78.8 | 4.7 | .16 | .41 | .62 | 64.8 | 5.3 | .04 | .34 | .59 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

8.5 TON - LGT102H5E WITH HUMIDITROL® OPERATING (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-----|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 1600 | 35.7 | 2.2 | .56 | .73 | .91 | 30.8 | 2.2 | .49 | .73 | .93 | 22.4 | 2.5 | .36 | .70 | .92 | 13.5 | 2.7 | .04 | .64 | .92 |
| | 2000 | 43.1 | 2.1 | .63 | .84 | .93 | 29.0 | 2.4 | .58 | .85 | .93 | 23.9 | 2.5 | .47 | .87 | .93 | 14.5 | 2.8 | .23 | .89 | .92 |
| | 2400 | 45.6 | 2.1 | .70 | .92 | .93 | 31.1 | 2.4 | .67 | .93 | .93 | 25.9 | 2.5 | .60 | .93 | .93 | 16.2 | 2.8 | .45 | .93 | .93 |
| 67°F | 1600 | 44.9 | 2.1 | .40 | .57 | .72 | 31.9 | 2.4 | .30 | .47 | .69 | 27.2 | 2.5 | .13 | .42 | .68 | 18.4 | 2.8 | -.20 | .25 | .64 |
| | 2000 | 47.9 | 2.1 | .40 | .64 | .81 | 33.9 | 2.4 | .36 | .56 | .83 | 28.7 | 2.5 | .20 | .53 | .83 | 19.2 | 2.8 | -.12 | .40 | .85 |
| | 2400 | 50.4 | 2.1 | .45 | .70 | .90 | 35.5 | 2.4 | .41 | .65 | .92 | 29.4 | 2.5 | .27 | .64 | .94 | 19.5 | 2.8 | -.04 | .56 | .94 |
| 71°F | 1600 | 49.9 | 2.1 | .26 | .42 | .57 | 36.9 | 2.4 | .15 | .28 | .53 | 32.3 | 2.5 | -.04 | .23 | .46 | 23.5 | 2.8 | -.36 | .02 | .35 |
| | 2000 | 53.3 | 2.1 | .22 | .47 | .64 | 39.2 | 2.4 | .18 | .35 | .61 | 34.0 | 2.5 | -.01 | .30 | .56 | 24.4 | 2.8 | -.34 | .11 | .48 |
| | 2400 | 55.7 | 2.0 | .32 | .52 | .70 | 40.7 | 2.4 | .21 | .41 | .68 | 35.0 | 2.5 | .02 | .36 | .66 | 24.7 | 2.8 | -.31 | .19 | .61 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

8.5 TON - LGT102H5E WITH HUMIDITROL® OPERATING (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 2720 | 86.4 | 4.2 | .57 | .72 | .84 | 72.2 | 4.5 | .55 | .73 | .87 | 57.4 | 5.2 | .52 | .74 | .91 | 43.0 | 5.9 | .46 | .76 | .98 |
| | 3400 | 94.0 | 4.2 | .63 | .78 | .91 | 78.7 | 4.5 | .62 | .80 | .95 | 63.4 | 5.1 | .63 | .82 | 1.00 | 47.8 | 5.9 | .58 | .86 | 1.00 |
| | 4080 | 92.6 | 4.3 | .69 | .85 | .96 | 83.2 | 4.5 | .69 | .86 | .96 | 67.0 | 5.1 | .69 | .90 | .99 | 49.8 | 5.9 | .68 | .97 | 1.00 |
| 67°F | 2720 | 96.1 | 4.1 | .42 | .56 | .70 | 81.7 | 4.5 | .37 | .55 | .71 | 66.3 | 5.1 | .31 | .52 | .71 | 52.2 | 5.9 | .21 | .50 | .72 |
| | 3400 | 101.9 | 4.1 | .45 | .63 | .77 | 86.6 | 4.5 | .41 | .62 | .77 | 69.9 | 5.1 | .35 | .61 | .81 | 54.4 | 5.8 | .26 | .61 | .82 |
| | 4080 | 106.4 | 4.1 | .50 | .68 | .82 | 83.4 | 4.7 | .45 | .67 | .84 | 73.2 | 5.1 | .40 | .68 | .87 | 56.1 | 5.8 | .35 | .68 | .91 |
| 71°F | 2720 | 106.7 | 4.1 | .28 | .42 | .55 | 92.1 | 4.4 | .23 | .38 | .53 | 77.1 | 5.1 | .15 | .34 | .52 | 61.3 | 5.8 | .03 | .26 | .50 |
| | 3400 | 113.3 | 4.0 | .30 | .46 | .61 | 90.6 | 4.6 | .22 | .41 | .60 | 81.3 | 5.1 | .17 | .39 | .60 | 64.8 | 5.8 | .06 | .33 | .60 |
| | 4080 | 114.9 | 4.0 | .32 | .51 | .67 | 100.1 | 4.4 | .26 | .49 | .68 | 82.3 | 5.0 | .18 | .45 | .66 | 65.8 | 5.8 | .06 | .40 | .65 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

HUMIDITROL® DEHUMIDIFICATION SYSTEM RATINGS

10 TON - LGT120H5E WITH HUMIDITROL® OPERATING (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-----|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 1920 | 48.6 | 2.7 | .51 | .69 | .86 | 38.8 | 3.0 | .39 | .67 | .87 | 28.3 | 3.3 | .32 | .64 | .88 | 19.4 | 3.6 | .09 | .57 | .86 |
| | 2400 | 51.7 | 2.8 | .58 | .79 | .89 | 41.1 | 3.0 | .49 | .79 | .89 | 30.3 | 3.3 | .44 | .80 | .88 | 19.8 | 3.7 | .24 | .80 | .87 |
| | 2880 | 54.1 | 2.8 | .65 | .87 | .90 | 43.0 | 3.1 | .58 | .88 | .90 | 32.2 | 3.4 | .55 | .88 | .89 | 21.1 | 3.7 | .40 | .86 | .88 |
| 67°F | 1920 | 53.9 | 2.8 | .35 | .52 | .68 | 44.1 | 3.0 | .19 | .47 | .66 | 34.0 | 3.3 | .10 | .38 | .60 | 24.3 | 3.7 | -.17 | .23 | .59 |
| | 2400 | 57.0 | 2.8 | .40 | .59 | .77 | 46.3 | 3.1 | .25 | .55 | .77 | 35.7 | 3.4 | .17 | .49 | .77 | 24.5 | 3.7 | -.11 | .37 | .78 |
| | 2880 | 59.0 | 2.9 | .44 | .65 | .85 | 48.0 | 3.1 | .29 | .62 | .86 | 36.7 | 3.4 | .23 | .58 | .89 | 25.2 | 3.8 | -.04 | .50 | .89 |
| 71°F | 1920 | 59.2 | 2.8 | .22 | .37 | .52 | 49.4 | 3.1 | .03 | .30 | .48 | 39.7 | 3.4 | -.07 | .19 | .42 | 29.4 | 3.7 | -.35 | .01 | .32 |
| | 2400 | 62.7 | 2.9 | .23 | .42 | .59 | 52.0 | 3.1 | .04 | .35 | .56 | 41.4 | 3.4 | -.03 | .25 | .51 | 30.3 | 3.8 | -.34 | .08 | .44 |
| | 2880 | 64.4 | 2.9 | .26 | .46 | .65 | 53.8 | 3.2 | .16 | .40 | .63 | 42.1 | 3.5 | -.02 | .31 | .60 | 30.6 | 3.8 | -.33 | .15 | .56 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

10 TON - LGT120H5E WITH HUMIDITROL® OPERATING (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-----|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 3200 | 102.9 | 5.3 | .54 | .68 | .79 | 95.9 | 5.7 | .52 | .68 | .80 | 78.8 | 6.4 | .49 | .67 | .82 | 64.2 | 7.3 | .43 | .66 | .84 |
| | 4000 | 119.2 | 5.1 | .59 | .74 | .86 | 102.6 | 6.0 | .59 | .74 | .88 | 85.1 | 6.5 | .58 | .75 | .91 | 68.4 | 7.4 | .52 | .76 | .93 |
| | 4800 | 123.8 | 5.2 | .65 | .79 | .90 | 107.0 | 6.1 | .64 | .80 | .91 | 87.7 | 6.6 | .63 | .83 | .92 | 70.2 | 7.4 | .61 | .85 | .92 |
| 67°F | 3200 | 121.8 | 5.1 | .40 | .54 | .66 | 105.6 | 5.8 | .36 | .52 | .66 | 88.5 | 6.5 | .29 | .50 | .66 | 73.4 | 7.3 | .23 | .46 | .65 |
| | 4000 | 127.9 | 5.2 | .43 | .59 | .72 | 110.9 | 6.1 | .37 | .58 | .73 | 92.9 | 6.5 | .34 | .57 | .73 | 75.9 | 7.4 | .26 | .54 | .74 |
| | 4800 | 131.0 | 5.2 | .46 | .65 | .78 | 107.6 | 6.4 | .41 | .64 | .79 | 94.7 | 6.6 | .38 | .63 | .80 | 76.7 | 7.4 | .33 | .62 | .83 |
| 71°F | 3200 | 132.9 | 5.2 | .27 | .40 | .52 | 117.6 | 6.1 | .22 | .37 | .51 | 99.8 | 6.6 | .15 | .33 | .49 | 83.8 | 7.4 | .06 | .26 | .47 |
| | 4000 | 128.8 | 5.5 | .29 | .42 | .58 | 116.1 | 6.4 | .20 | .38 | .58 | 103.2 | 6.6 | .18 | .38 | .57 | 86.9 | 7.5 | .08 | .31 | .56 |
| | 4800 | 141.9 | 5.3 | .30 | .46 | .63 | 125.2 | 6.2 | .24 | .45 | .63 | 105.4 | 6.7 | .17 | .43 | .62 | 87.7 | 7.5 | .08 | .37 | .60 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

12.5 TON - LGT150H5E WITH HUMIDITROL® OPERATING (PART LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|------|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 2080 | 53.8 | 3.1 | .50 | .67 | .87 | 42.2 | 3.4 | .45 | .67 | .88 | 29.9 | 3.7 | .36 | .68 | .94 | 19.1 | 4.2 | .14 | .68 | 1.00 |
| | 2600 | 48.5 | 3.4 | .56 | .78 | .88 | 44.9 | 3.5 | .53 | .78 | .91 | 31.2 | 3.8 | .46 | .84 | .93 | 20.0 | 4.2 | .32 | .91 | .98 |
| | 3120 | 60.2 | 3.2 | .62 | .84 | .89 | 46.9 | 3.5 | .60 | .88 | .90 | 34.1 | 3.9 | .57 | .93 | .93 | 21.4 | 4.3 | .49 | 1.00 | .96 |
| 67°F | 2080 | 59.9 | 3.2 | .34 | .50 | .66 | 48.2 | 3.5 | .26 | .46 | .65 | 35.4 | 3.8 | .12 | .40 | .65 | 25.2 | 4.2 | -.16 | .28 | .65 |
| | 2600 | 63.5 | 3.2 | .38 | .56 | .74 | 50.7 | 3.5 | .30 | .54 | .75 | 38.4 | 3.9 | .18 | .49 | .78 | 25.6 | 4.3 | -.08 | .41 | .83 |
| | 3120 | 66.2 | 3.3 | .42 | .62 | .81 | 52.7 | 3.6 | .35 | .61 | .84 | 39.3 | 3.9 | .23 | .59 | .89 | 26.3 | 4.3 | -.01 | .54 | .96 |
| 71°F | 2080 | 65.9 | 3.3 | .20 | .36 | .50 | 54.4 | 3.6 | .10 | .29 | .47 | 42.7 | 3.9 | -.06 | .19 | .42 | 30.7 | 4.3 | -.35 | .02 | .34 |
| | 2600 | 69.9 | 3.3 | .22 | .40 | .56 | 57.1 | 3.6 | .12 | .34 | .54 | 44.5 | 4.0 | -.03 | .25 | .51 | 32.0 | 4.4 | -.33 | .10 | .46 |
| | 3120 | 72.7 | 3.4 | .24 | .44 | .62 | 59.2 | 3.7 | .15 | .39 | .61 | 45.9 | 4.0 | -.01 | .31 | .59 | 33.1 | 4.4 | -.31 | .17 | .57 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

12.5 TON - LGT150H5E WITH HUMIDITROL® OPERATING (FULL LOAD)

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil | | | | | | | | | | | | | | | | | | | |
|-------------------------------|------------------|---|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-------|-----------------|-------------------|-------------------------------|------|-----|
| | | 65°F | | | | | 75°F | | | | | 85°F | | | | | 95°F | | | | |
| | | 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 | | |
| cfm | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | kBtuh | kW | 75°F | 80°F | 85°F | |
| 63°F | 4000 | 126.6 | 6.7 | .57 | .72 | .83 | 108.9 | 7.9 | .56 | .72 | .85 | 89.3 | 8.4 | .53 | .73 | .89 | 71.3 | 9.5 | .49 | .75 | .93 |
| | 5000 | 134.8 | 6.8 | .63 | .78 | .90 | 116.6 | 8.0 | .62 | .79 | .95 | 95.0 | 8.5 | .60 | .81 | .96 | 76.1 | 9.6 | .59 | .84 | .99 |
| | 6000 | 140.2 | 6.8 | .69 | .84 | .93 | 107.1 | 8.4 | .69 | .89 | .96 | 99.4 | 8.6 | .68 | .89 | .96 | 79.7 | 9.7 | .69 | .94 | .98 |
| 67°F | 4000 | 138.9 | 6.8 | .40 | .56 | .71 | 121.2 | 8.0 | .37 | .54 | .70 | 100.3 | 8.5 | .32 | .52 | .71 | 80.7 | 9.6 | .25 | .49 | .72 |
| | 5000 | 143.8 | 6.9 | .45 | .61 | .76 | 119.6 | 8.4 | .41 | .60 | .79 | 104.1 | 8.6 | .38 | .60 | .79 | 83.6 | 9.7 | .29 | .61 | .82 |
| | 6000 | 149.1 | 6.9 | .47 | .69 | .82 | 125.8 | 8.2 | .46 | .70 | .84 | 106.8 | 8.7 | .42 | .68 | .87 | 86.7 | 9.8 | .37 | .68 | .90 |
| 71°F | 4000 | 151.7 | 6.9 | .27 | .41 | .54 | 130.5 | 8.2 | .22 | .38 | .53 | 113.5 | 8.7 | .15 | .33 | .53 | 94.0 | 9.7 | .06 | .28 | .49 |
| | 5000 | 158.1 | 7.0 | .28 | .45 | .60 | 137.6 | 7.8 | .24 | .41 | .60 | 117.3 | 8.8 | .18 | .38 | .60 | 97.2 | 9.8 | .09 | .33 | .59 |
| | 6000 | 162.4 | 7.0 | .30 | .49 | .67 | 141.0 | 7.9 | .25 | .46 | .66 | 119.3 | 8.8 | .18 | .43 | .68 | 98.9 | 9.9 | .10 | .39 | .67 |

NOTE - Total Cooling Capacity is calculated at 80°F Dry Bulb.

BLOWER DATA

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

Maximum Static Pressure With Gas Heat - 2.0 in. w.g.

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard - 2150 cfm; Medium - 2250 cfm; High - 2600 cfm

| Total Air Volume cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | | | |
|----------------------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 0.2 | | 0.4 | | 0.6 | | 0.8 | | 1.0 | | 1.2 | | 1.4 | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts |
| 1750 | 644 | 137 | 740 | 235 | 796 | 302 | 833 | 343 | 873 | 373 | 996 | 558 | 1065 | 664 |
| 2000 | 675 | 165 | 768 | 260 | 821 | 330 | 861 | 386 | 960 | 507 | 1026 | 629 | 1094 | 753 |
| 2250 | 711 | 195 | 803 | 290 | 856 | 375 | 901 | 497 | 991 | 564 | 1058 | 703 | 1128 | 840 |
| 2500 | 764 | 241 | 852 | 335 | 904 | 439 | 951 | 568 | 1025 | 641 | 1097 | 789 | 1170 | 934 |
| 2750 | 847 | 316 | 901 | 399 | 946 | 543 | 1004 | 674 | 1074 | 746 | 1146 | 895 | 1220 | 1041 |
| 3000 | 944 | 426 | 980 | 511 | 1021 | 671 | 1074 | 803 | 1136 | 874 | 1205 | 1021 | 1276 | 1167 |
| 3250 | 1022 | 544 | 1057 | 640 | 1099 | 810 | 1149 | 942 | 1207 | 1012 | 1272 | 1156 | 1338 | 1304 |
| 3500 | 1092 | 666 | 1131 | 770 | 1174 | 948 | 1225 | 1081 | 1281 | 1151 | 1342 | 1297 | 1402 | 1451 |
| 3750 | 1161 | 780 | 1202 | 892 | 1248 | 1079 | 1298 | 1217 | 1353 | 1291 | 1409 | 1445 | 1463 | 1609 |
| 4000 | 1230 | 888 | 1273 | 1010 | 1319 | 1212 | 1369 | 1362 | 1421 | 1441 | 1471 | 1608 | 1518 | 1784 |
| 4250 | 1299 | 1006 | 1342 | 1140 | 1388 | 1362 | 1436 | 1526 | 1483 | 1612 | 1528 | 1790 | 1571 | 1975 |
| 4500 | 1366 | 1142 | 1409 | 1289 | 1454 | 1532 | 1498 | 1708 | 1542 | 1798 | 1583 | 1984 | 1623 | 2172 |
| 4750 | 1432 | 1295 | 1474 | 1457 | 1516 | 1719 | 1558 | 1903 | 1598 | 1997 | 1637 | 2187 | 1674 | 2377 |
| 5000 | 1496 | 1471 | 1537 | 1645 | 1577 | 1921 | 1616 | 2110 | 1654 | 2205 | 1690 | 2396 | 1726 | 2586 |
| 5250 | 1560 | 1667 | 1598 | 1849 | 1636 | 2132 | 1673 | 2324 | 1709 | 2419 | 1744 | 2609 | 1779 | 2796 |
| 5500 | 1623 | 1878 | 1659 | 2064 | 1695 | 2349 | 1731 | 2539 | 1765 | 2634 | --- | --- | --- | --- |
| 5750 | 1686 | 2097 | 1720 | 2284 | 1755 | 2567 | --- | --- | --- | --- | --- | --- | --- | --- |
| 6000 | 1748 | 2316 | 1781 | 2502 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

| Total Air Volume cfm | Total Static Pressure - in. w.g. | | | | | | | | | | | |
|----------------------------|----------------------------------|-------|------|-------|------|-------|------|-------|------|-------|------|-------|
| | 1.6 | | 1.8 | | 2.0 | | 2.2 | | 2.4 | | 2.6 | |
| | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts | RPM | Watts |
| 1750 | 1134 | 775 | 1203 | 896 | 1275 | 1025 | 1356 | 1149 | 1422 | 1287 | 1470 | 1439 |
| 2000 | 1162 | 878 | 1231 | 1007 | 1302 | 1139 | 1379 | 1268 | 1440 | 1411 | 1486 | 1570 |
| 2250 | 1198 | 975 | 1268 | 1111 | 1338 | 1250 | 1409 | 1388 | 1464 | 1542 | 1507 | 1711 |
| 2500 | 1243 | 1075 | 1313 | 1217 | 1380 | 1365 | 1442 | 1517 | 1491 | 1685 | 1533 | 1860 |
| 2750 | 1293 | 1186 | 1361 | 1336 | 1423 | 1494 | 1477 | 1661 | 1520 | 1839 | 1561 | 2016 |
| 3000 | 1346 | 1317 | 1410 | 1474 | 1466 | 1642 | 1514 | 1818 | 1554 | 2000 | 1594 | 2180 |
| 3250 | 1402 | 1460 | 1460 | 1627 | 1511 | 1803 | 1553 | 1986 | 1591 | 2172 | 1631 | 2352 |
| 3500 | 1459 | 1616 | 1509 | 1793 | 1555 | 1976 | 1594 | 2165 | 1631 | 2352 | 1671 | 2531 |
| 3750 | 1512 | 1785 | 1557 | 1970 | 1599 | 2159 | 1636 | 2350 | 1673 | 2536 | 1713 | 2714 |
| 4000 | 1562 | 1969 | 1604 | 2157 | 1643 | 2347 | 1680 | 2538 | 1717 | 2722 | 1756 | 2896 |
| 4250 | 1611 | 2163 | 1650 | 2352 | 1688 | 2541 | 1724 | 2729 | 1762 | 2908 | --- | --- |
| 4500 | 1661 | 2362 | 1698 | 2552 | 1734 | 2739 | 1770 | 2922 | --- | --- | --- | --- |
| 4750 | 1710 | 2567 | 1746 | 2754 | --- | --- | --- | --- | --- | --- | --- | --- |
| 5000 | 1761 | 2774 | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |

BLOWER DATA

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

| Air Volume cfm | Wet Indoor Coil | | Gas Heat Exchanger | | | Economizer | Humiditrol® Reheat Coil | Filters | | | Return Air Adaptor Plate |
|-------------------|-----------------|----------|--------------------|----------------|--------------|------------|-------------------------------|---------|---------|---------|-----------------------------------|
| | | | Standard Heat | Medium Heat | High Heat | | | MERV 8 | MERV 13 | MERV 16 | |
| | 092, 102 | 120, 150 | | | | | | | | | |
| 1750 | 0.04 | 0.04 | 0.06 | 0.02 | 0.02 | 0.05 | 0.02 | 0.01 | 0.03 | 0.06 | 0.00 |
| 2000 | 0.05 | 0.05 | 0.07 | 0.05 | 0.06 | 0.06 | 0.02 | 0.01 | 0.03 | 0.08 | 0.00 |
| 2250 | 0.06 | 0.06 | 0.07 | 0.07 | 0.08 | 0.08 | 0.02 | 0.01 | 0.04 | 0.09 | 0.00 |
| 2500 | 0.07 | 0.07 | 0.09 | 0.10 | 0.11 | 0.11 | 0.03 | 0.01 | 0.05 | 0.10 | 0.00 |
| 2750 | 0.08 | 0.08 | 0.09 | 0.11 | 0.12 | 0.12 | 0.03 | 0.02 | 0.05 | 0.11 | 0.00 |
| 3000 | 0.10 | 0.09 | 0.11 | 0.12 | 0.13 | 0.13 | 0.03 | 0.02 | 0.06 | 0.12 | 0.02 |
| 3250 | 0.11 | 0.10 | 0.12 | 0.15 | 0.16 | 0.15 | 0.04 | 0.02 | 0.06 | 0.13 | 0.02 |
| 3500 | 0.12 | 0.11 | 0.12 | 0.16 | 0.17 | 0.15 | 0.04 | 0.03 | 0.07 | 0.15 | 0.04 |
| 3750 | 0.14 | 0.13 | 0.14 | 0.19 | 0.20 | 0.15 | 0.05 | 0.03 | 0.08 | 0.16 | 0.07 |
| 4000 | 0.15 | 0.14 | 0.14 | 0.21 | 0.22 | 0.19 | 0.05 | 0.04 | 0.08 | 0.17 | 0.09 |
| 4250 | 0.17 | 0.15 | 0.14 | 0.24 | 0.28 | 0.19 | 0.06 | 0.04 | 0.09 | 0.19 | 0.11 |
| 4500 | 0.19 | 0.17 | 0.15 | 0.26 | 0.32 | 0.22 | 0.07 | 0.04 | 0.09 | 0.20 | 0.12 |
| 4750 | 0.20 | 0.18 | 0.16 | 0.29 | 0.37 | 0.25 | 0.07 | 0.05 | 0.10 | 0.21 | 0.16 |
| 5000 | 0.22 | 0.20 | 0.16 | 0.34 | 0.43 | 0.29 | 0.08 | 0.06 | 0.10 | 0.23 | 0.18 |
| 5250 | 0.24 | 0.22 | 0.16 | 0.37 | 0.47 | 0.32 | 0.08 | 0.06 | 0.11 | 0.24 | 0.19 |
| 5500 | 0.25 | 0.23 | 0.18 | 0.44 | 0.54 | 0.34 | 0.09 | 0.07 | 0.12 | 0.25 | 0.22 |
| 5750 | 0.27 | 0.25 | 0.19 | 0.49 | 0.59 | 0.45 | 0.10 | 0.07 | 0.12 | 0.27 | 0.25 |
| 6000 | 0.29 | 0.27 | 0.20 | 0.54 | 0.64 | 0.52 | 0.10 | 0.08 | 0.13 | 0.28 | 0.27 |

POWER EXHAUST FAN PERFORMANCE

| Return Air System Static Pressure | Air Volume Exhausted |
|-----------------------------------|----------------------|
| in. w.g. | cfm |
| 0 | 3175 |
| 0.05 | 2955 |
| 0.10 | 2685 |
| 0.15 | 2410 |
| 0.20 | 2165 |
| 0.25 | 1920 |
| 0.30 | 1420 |
| 0.35 | 1200 |

BLOWER DATA

CEILING DIFFUSERS AIR RESISTANCE - in. w.g.

| Size | RTD11 Step-Down Diffuser | | | | FD11 Flush Diffuser |
|-----------|--------------------------|-------------|---------------------|-----------------------|---------------------|
| | Air Volume cfm | 2 Ends Open | 1 Side, 2 Ends Open | All Ends & Sides Open | |
| 092 | 2400 | 0.21 | 0.18 | 0.15 | 0.14 |
| | 2600 | 0.24 | 0.21 | 0.18 | 0.17 |
| | 2800 | 0.27 | 0.24 | 0.21 | 0.20 |
| | 3000 | 0.32 | 0.29 | 0.25 | 0.25 |
| | 3200 | 0.41 | 0.37 | 0.32 | 0.31 |
| | 3400 | 0.50 | 0.45 | 0.39 | 0.37 |
| | 3600 | 0.61 | 0.54 | 0.48 | 0.44 |
| 102 & 120 | 3600 | 0.36 | 0.28 | 0.23 | 0.15 |
| | 3800 | 0.40 | 0.32 | 0.26 | 0.18 |
| | 4000 | 0.44 | 0.36 | 0.29 | 0.21 |
| | 4200 | 0.49 | 0.40 | 0.33 | 0.24 |
| | 4400 | 0.54 | 0.44 | 0.37 | 0.27 |
| | 4600 | 0.60 | 0.49 | 0.42 | 0.31 |
| | 4800 | 0.65 | 0.53 | 0.46 | 0.35 |
| | 5000 | 0.69 | 0.58 | 0.50 | 0.39 |
| 150 | 5200 | 0.75 | 0.62 | 0.54 | 0.43 |
| | 4200 | 0.22 | 0.19 | 0.16 | 0.10 |
| | 4400 | 0.28 | 0.24 | 0.20 | 0.12 |
| | 4600 | 0.34 | 0.29 | 0.24 | 0.15 |
| | 4800 | 0.40 | 0.34 | 0.29 | 0.19 |
| | 5000 | 0.46 | 0.39 | 0.34 | 0.23 |
| | 5200 | 0.52 | 0.44 | 0.39 | 0.27 |
| | 5400 | 0.58 | 0.49 | 0.43 | 0.31 |
| | 5600 | 0.64 | 0.54 | 0.47 | 0.35 |
| 5800 | 0.70 | 0.59 | 0.51 | 0.39 | |

CEILING DIFFUSER AIR THROW DATA

| Model | Air Volume cfm | ¹ Effective Throw Range | |
|----------|-------------------|------------------------------------|------------|
| | | RTD11 Step-Down | FD11 Flush |
| | | ft. | ft. |
| 092 | 2600 | 24 - 29 | 19 - 24 |
| | 2800 | 25 - 30 | 20 - 28 |
| | 3000 | 27 - 33 | 21 - 29 |
| | 3200 | 28 - 35 | 22 - 29 |
| | 3400 | 30 - 37 | 22 - 30 |
| 102, 120 | 3600 | 25 - 33 | 22 - 29 |
| | 3800 | 27 - 35 | 22 - 30 |
| | 4000 | 29 - 37 | 24 - 33 |
| | 4200 | 32 - 40 | 26 - 35 |
| | 4400 | 34 - 42 | 28 - 37 |
| 150 | 5600 | 39 - 49 | 28 - 37 |
| | 5800 | 42 - 51 | 29 - 38 |
| | 6000 | 44 - 54 | 40 - 50 |
| | 6200 | 45 - 55 | 42 - 51 |
| | 6400 | 46 - 55 | 43 - 52 |
| | 6600 | 47 - 56 | 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 50 ft. per minute. Four sides open.

ELECTRICAL DATA **7.5 TON**

| Model | | LGT092H5E / LGT092H5P | | |
|--|-----------------------------------|------------------------------|-----------------|-----------------|
| ¹ Voltage - 60Hz | | 208/230V-3ph | 460V-3ph | 575V-3ph |
| Compressor 1 (Non-Inverter) | Rated Load Amps | 11.9 | 6.8 | 4.8 |
| | Locked Rotor Amps | 112 | 61.8 | 39 |
| Compressor 2 (Non-Inverter) | Rated Load Amps | 12.2 | 6.4 | 5.1 |
| | Locked Rotor Amps | 120.4 | 50 | 41 |
| Outdoor Fan Motors (2) | Full Load Amps (2 Non-ECM) | 2.4 | 1.3 | 1 |
| | Total | 4.8 | 2.6 | 2 |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 1.3 | 1 |
| Service Outlet 115V GFI (amps) | | 15 | 15 | 20 |
| Indoor Blower Motor | HP | 3.75 | 3.75 | 3.75 |
| | Full Load Amps | 8 | 4.2 | 3.6 |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 50 | 25 | 20 |
| | With (1) 0.33 HP Power Exhaust | 50 | 25 | 20 |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 40 | 22 | 17 |
| | With (1) 0.33 HP Power Exhaust | 43 | 24 | 18 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

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

² 2 HACR type breaker or fuse.

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

ELECTRICAL DATA **8.5 TON**

| Model | | LGT102H5E / LGT102H5P | | |
|--|-----------------------------------|------------------------------|-----------------|-----------------|
| ¹ Voltage - 60Hz | | 208/230V-3ph | 460V-3ph | 575V-3ph |
| Compressor 1 (Non-Inverter) | Rated Load Amps | 11.9 | 6.8 | 4.8 |
| | Locked Rotor Amps | 112 | 61.8 | 39 |
| Compressor 2 (Non-Inverter) | Rated Load Amps | 12.8 | 6 | 5.8 |
| | Locked Rotor Amps | 120.4 | 49.4 | 41 |
| Outdoor Fan Motors (2) | Full Load Amps (2 Non-ECM) | 2.4 | 1.3 | 1 |
| | Total | 4.8 | 2.6 | 2 |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 1.3 | 1 |
| Service Outlet 115V GFI (amps) | | 15 | 15 | 20 |
| Indoor Blower Motor | HP | 3.75 | 3.75 | 3.75 |
| | Full Load Amps | 8 | 4.2 | 3.6 |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 50 | 25 | 20 |
| | With (1) 0.33 HP Power Exhaust | 50 | 25 | 20 |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 41 | 22 | 18 |
| | With (1) 0.33 HP Power Exhaust | 44 | 23 | 19 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

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

² 2 HACR type breaker or fuse.

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

ELECTRICAL DATA**10 TON**

| Model | | LGT120H5E / LGT120H5P | | |
|--|-----------------------------------|-----------------------|----------|----------|
| ¹ Voltage - 60Hz | | 208/230V-3ph | 460V-3ph | 575V-3ph |
| Compressor 1 (Non-Inverter) | Rated Load Amps | 13.8 | 6.9 | 5.8 |
| | Locked Rotor Amps | 150 | 58 | 47.8 |
| Compressor 2 (Non-Inverter) | Rated Load Amps | 16 | 7.1 | 6.4 |
| | Locked Rotor Amps | 156.4 | 69 | 47.8 |
| Outdoor Fan Motors (2) | Full Load Amps (2 Non-ECM) | 3 | 1.5 | 1.2 |
| | Total | 6 | 3 | 2.4 |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 1.3 | 1 |
| Service Outlet 115V GFI (amps) | | 15 | 15 | 20 |
| Indoor Blower Motor | HP | 3.75 | 3.75 | 3.75 |
| | Full Load Amps | 8 | 4.2 | 3.6 |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 60 | 30 | 25 |
| | With (1) 0.33 HP Power Exhaust | 60 | 30 | 25 |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 48 | 23 | 20 |
| | With (1) 0.33 HP Power Exhaust | 51 | 25 | 21 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ 1 Extremes of operating range are plus and minus 10% of line voltage.² 2 HACR type breaker or fuse.³ 3 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL DATA****12.5 TON**

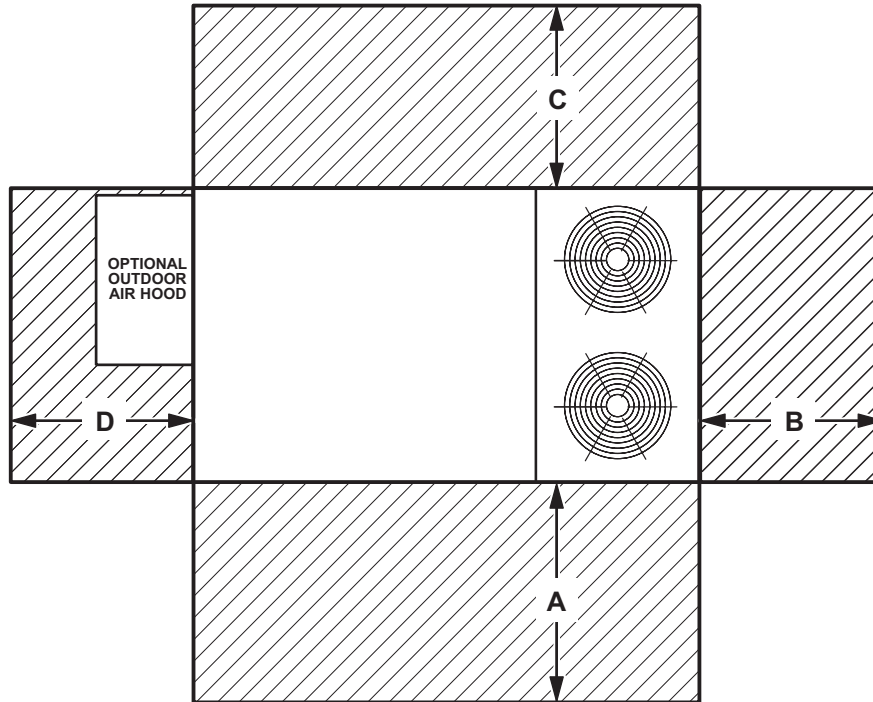
| Model | | LGT150H5E/ LGT150H5P | | |
|--|-----------------------------------|----------------------|----------|----------|
| ¹ Voltage - 60Hz | | 208/230V-3ph | 460V-3ph | 575V-3ph |
| Compressor 1 (Non-Inverter) | Rated Load Amps | 19.2 | 9.1 | 6.2 |
| | Locked Rotor Amps | 162.3 | 70.8 | 58.2 |
| Compressor 2 (Non-Inverter) | Rated Load Amps | 22.4 | 9.1 | 7.2 |
| | Locked Rotor Amps | 166.2 | 74.6 | 54 |
| Outdoor Fan Motors (2) | Full Load Amps (2 Non-ECM) | 3 | 1.5 | 1.2 |
| | Total | 6 | 3 | 2.4 |
| Power Exhaust (1) 0.33 HP | Full Load Amps | 2.4 | 1.3 | 1 |
| Service Outlet 115V GFI (amps) | | 15 | 15 | 20 |
| Indoor Blower Motor | HP | 3.75 | 3.75 | 3.75 |
| | Full Load Amps | 8 | 4.2 | 3.6 |
| ² Maximum Overcurrent Protection (MOCP) | Unit Only | 80 | 35 | 25 |
| | With (1) 0.33 HP Power Exhaust | 80 | 35 | 25 |
| ³ Minimum Circuit Ampacity (MCA) | Unit Only | 62 | 28 | 22 |
| | With (1) 0.33 HP Power Exhaust | 64 | 29 | 23 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

¹ 1 Extremes of operating range are plus and minus 10% of line voltage.² 2 HACR type breaker or fuse.³ 3 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**FIELD WIRING NOTES**

- For use with copper wiring only
- Field wiring not furnished
- All wiring must conform to NEC or CEC and local electrical codes
- For specific wiring information, please refer to the installation instructions

UNIT CLEARANCES



| ¹ Unit Clearance | A | | B | | C | | D | | Top Clearance |
|------------------------------------|-----|------|-----|-----|-----|-----|-----|------|---------------|
| | in. | mm | in. | mm | in. | mm | in. | mm | |
| Service Clearance | 60 | 1524 | 36 | 914 | 36 | 934 | 60 | 1524 | Unobstructed |
| Clearance to Combustibles | 36 | 914 | 1 | 25 | 1 | 25 | 1 | 25 | |
| Minimum Operation Clearance | 36 | 914 | 36 | 914 | 36 | 914 | 36 | 914 | |

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

¹ Service Clearance - Required for removal of serviceable parts.

Clearance to Combustibles - Required clearance to combustible material.

Minimum Operation Clearance - Required clearance for proper unit operation.

OUTDOOR SOUND DATA

| Size | 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 | 76 | 79 | 84 | 83 | 79 | 73 | 66 | 88 |
| 120, 150 | 70 | 77 | 85 | 84 | 80 | 78 | 76 | 89 |

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

¹ Sound Rating Number according to 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).

| WEIGHT DATA | | | | UNIT |
|---------------|------|-----|----------|------|
| Size | Net | | Shipping | |
| | lbs. | kg | lbs. | kg |
| 092 Base Unit | 1088 | 494 | 1173 | 532 |
| 092 Max. Unit | 1239 | 562 | 1324 | 601 |
| 102 Base Unit | 1095 | 497 | 1180 | 535 |
| 102 Max. Unit | 1246 | 565 | 1331 | 604 |
| 120 Base Unit | 1100 | 500 | 1185 | 539 |
| 120 Max. Unit | 1251 | 569 | 1336 | 607 |
| 150 Base Unit | 1120 | 509 | 1205 | 548 |
| 150 Max. Unit | 1271 | 578 | 1356 | 616 |

FACTORY / FIELD INSTALLED OPTIONS AND ACCESSORIES - NET WEIGHTS

| Description | lbs. | kg | |
|--|-------------|-----|----|
| ECONOMIZER / OUTDOOR AIR / EXHAUST | | | |
| Economizer | | | |
| Economizer Dampers | 56 | 26 | |
| Outdoor Air Hood (downflow) | 21 | 10 | |
| Barometric Relief Dampers (downflow) | 9 | 4 | |
| Barometric Relief Dampers (low profile horizontal) | 20 | 9 | |
| Outdoor Air Dampers | | | |
| Motorized | 10 | 5 | |
| Manual | 10 | 5 | |
| Power Exhaust | 31 | 14 | |
| GAS HEAT EXCHANGER (NET WEIGHT) | | | |
| Medium Heat (adder over standard heat) | 17 | 8 | |
| High Heat (adder over standard heat) | 33 | 15 | |
| COMBINATION COIL/HAIL GUARDS | | | |
| All models | 21 | 10 | |
| ROOF CURBS | | | |
| Hybrid Roof Curbs, Downflow | | | |
| 8 in. height | 103 | 47 | |
| 14 in. height | 125 | 57 | |
| 18 in. height | 147 | 67 | |
| 24 in. height | 169 | 77 | |
| Adjustable Pitch Curb, Downflow | | | |
| 14 in. height | 169 | 77 | |
| CEILING DIFFUSERS | | | |
| Step-Down | RTD11-95S | 118 | 54 |
| | RTD11-135S | 135 | 61 |
| | RTD11-185S | 168 | 76 |
| Flush | FD11-95S | 118 | 54 |
| | FD11-135S | 135 | 61 |
| | FD11-185S | 168 | 76 |
| Transitions | C1DIFF30B-1 | 30 | 14 |
| | C1DIFF31B-1 | 32 | 15 |
| | C1DIFF32B-1 | 36 | 16 |
| HUMIDITROL® DEHUMIDIFICATION SYSTEM | | | |
| Humiditrol® Dehumidification Option | 20 | 9 | |

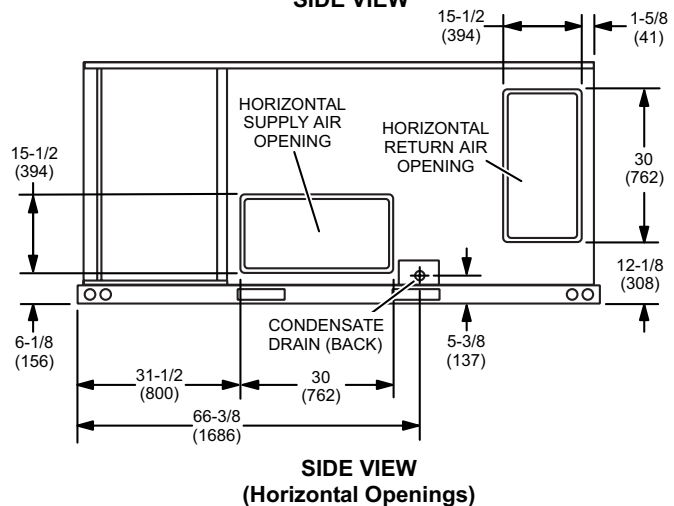
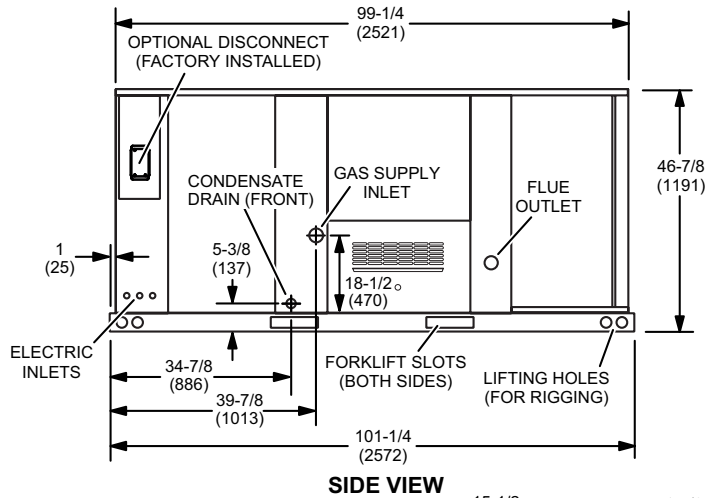
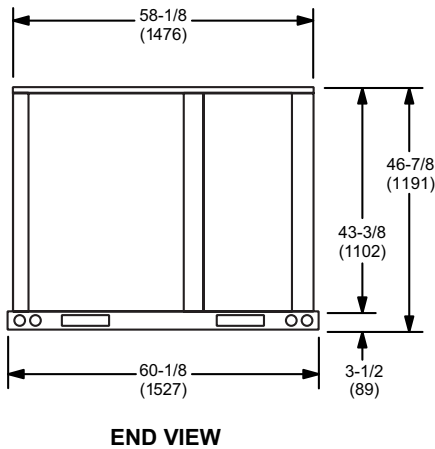
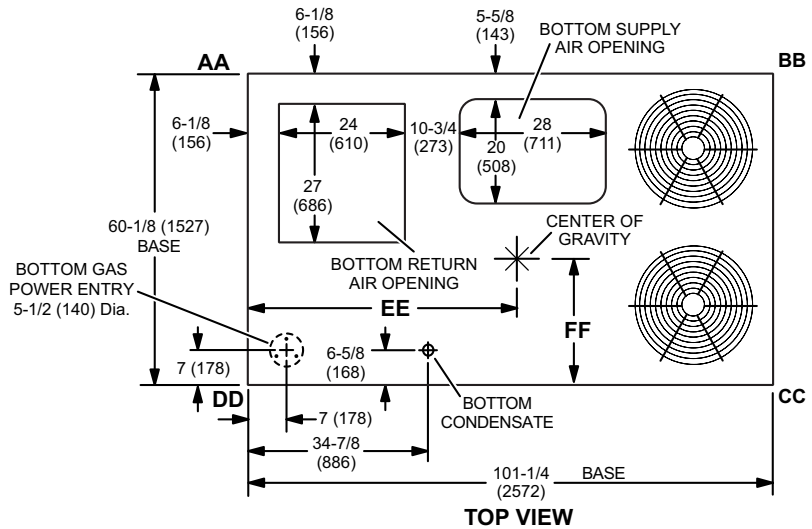
DIMENSIONS

UNIT

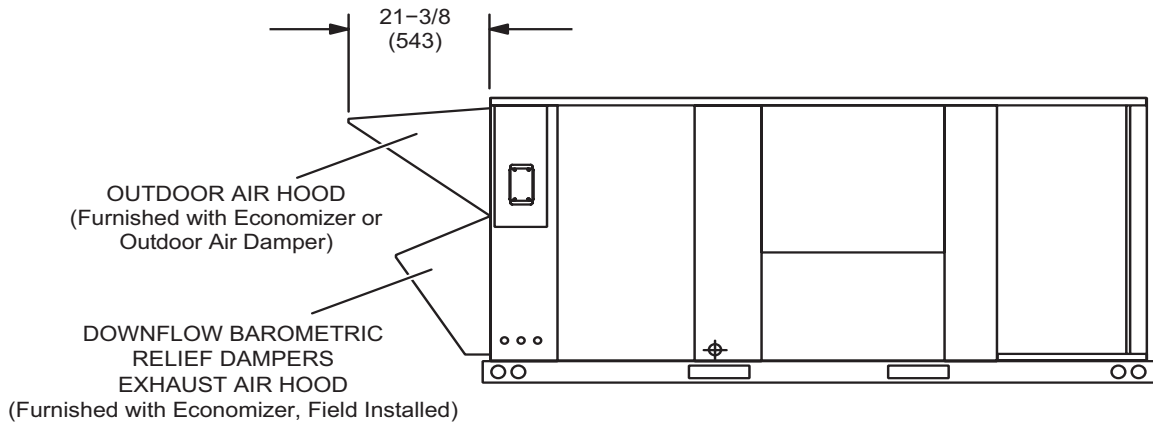
| Size | CORNER WEIGHTS | | | | | | | | | | | | | | | | CENTER OF GRAVITY | | | | | | | |
|------|----------------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|------|-----|-------------------|------|------|------|------|-----|------|-----|
| | AA | | | | BB | | | | CC | | | | DD | | | | EE | | | | FF | | | |
| | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | | Base | | Max. | |
| | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | lbs. | kg | in. | mm | in. | mm | in. | mm | in. | mm |
| 092 | 293 | 133 | 338 | 153 | 263 | 119 | 295 | 134 | 286 | 130 | 316 | 143 | 326 | 148 | 370 | 168 | 46.5 | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 102 | 294 | 134 | 340 | 154 | 265 | 120 | 297 | 135 | 288 | 131 | 318 | 144 | 328 | 149 | 372 | 169 | 46.5 | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 120 | 306 | 139 | 349 | 158 | 275 | 125 | 305 | 138 | 295 | 134 | 326 | 148 | 334 | 152 | 382 | 173 | 46.5 | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |
| 150 | 316 | 143 | 359 | 163 | 284 | 129 | 314 | 142 | 304 | 138 | 393 | 178 | 345 | 157 | 393 | 178 | 46.5 | 1181 | 45.5 | 1156 | 24.5 | 622 | 25.5 | 648 |

Base Unit - The unit with NO INTERNAL OPTIONS.

Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.

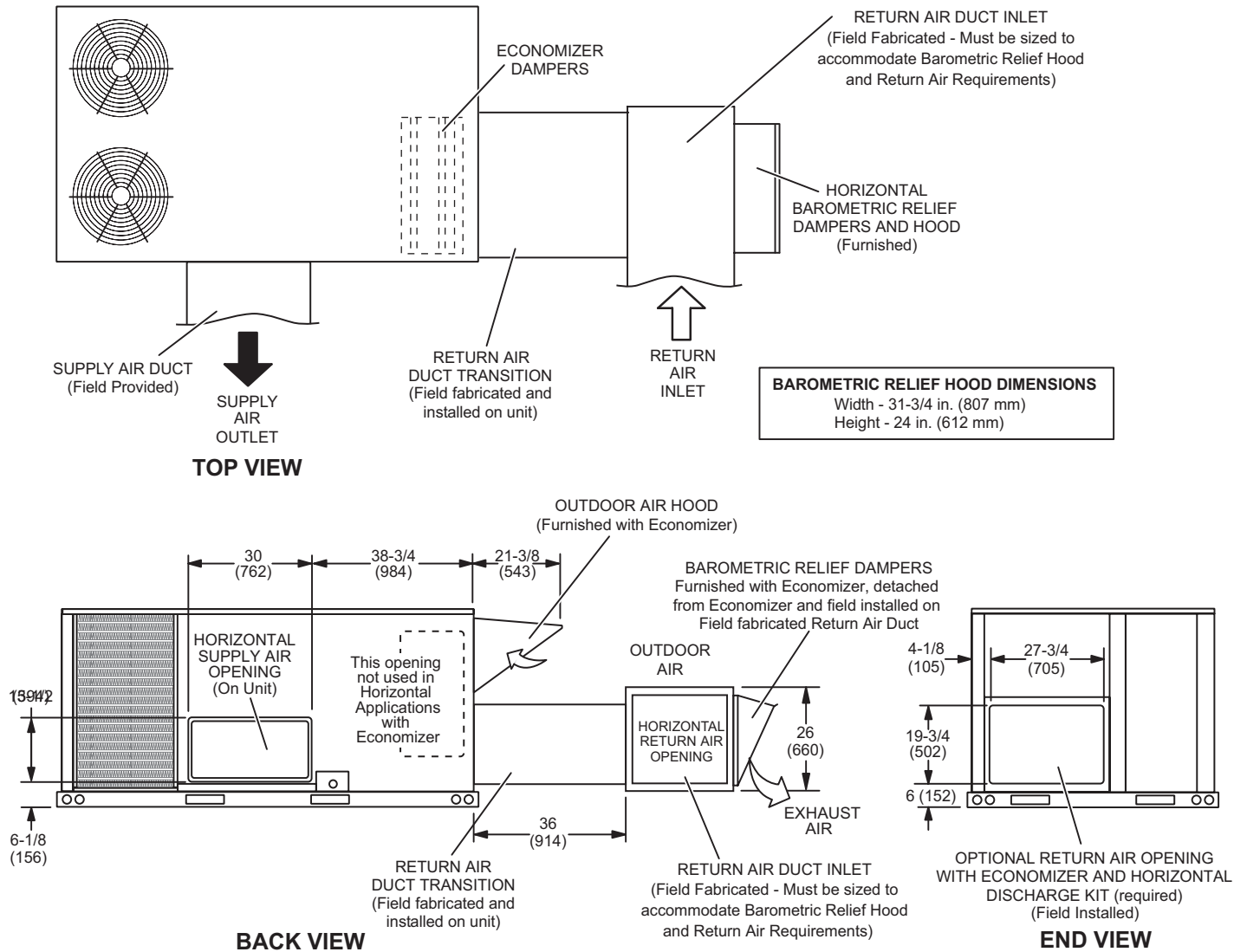


OUTDOOR AIR HOOD DETAIL



HORIZONTAL ECONOMIZER APPLICATION

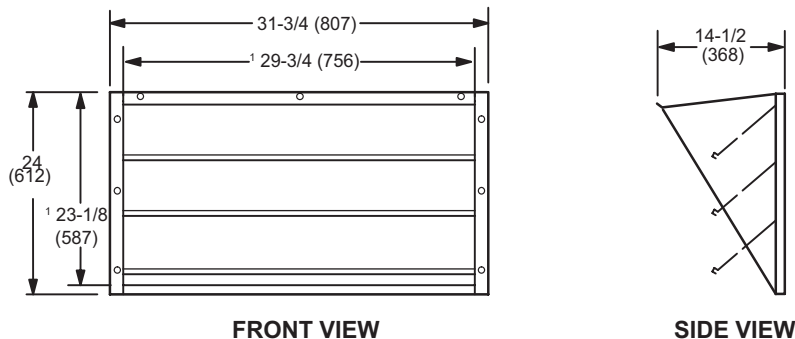
(With Furnished Barometric Relief Dampers and Optional Horizontal Discharge Kit - Required)



NOTE - Return Air Duct and Transition must be supported.

BAROMETRIC RELIEF DAMPERS
 (Furnished with Economizer)

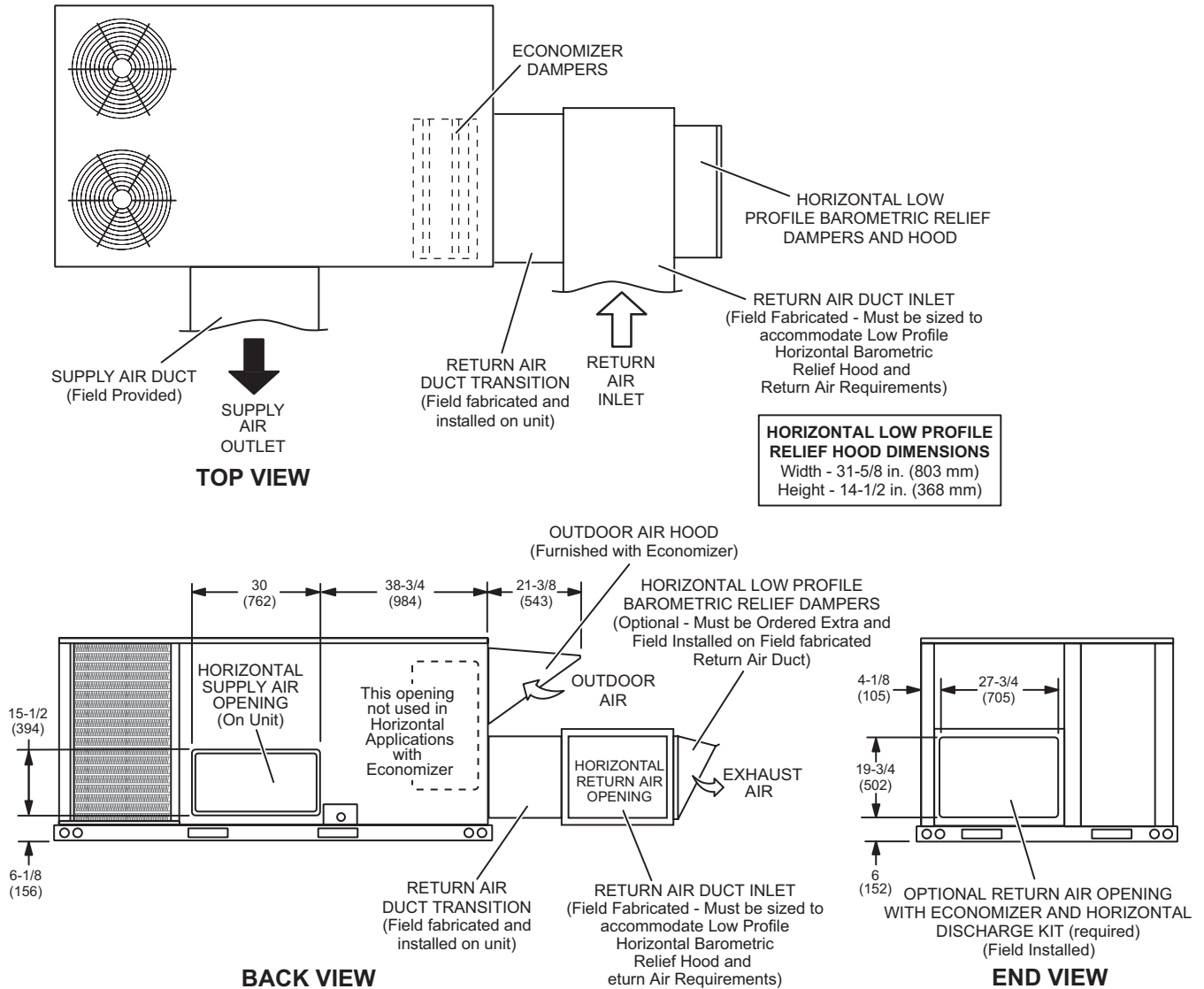
(Field installed in horizontal return air duct adjacent to unit)



¹ NOTE - Opening size required in return air duct.

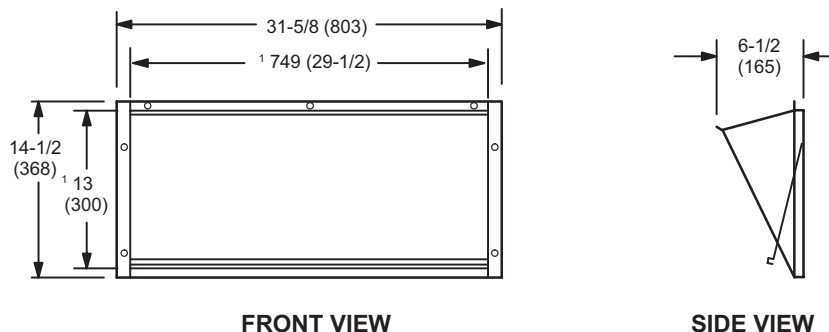
HORIZONTAL ECONOMIZER APPLICATION

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



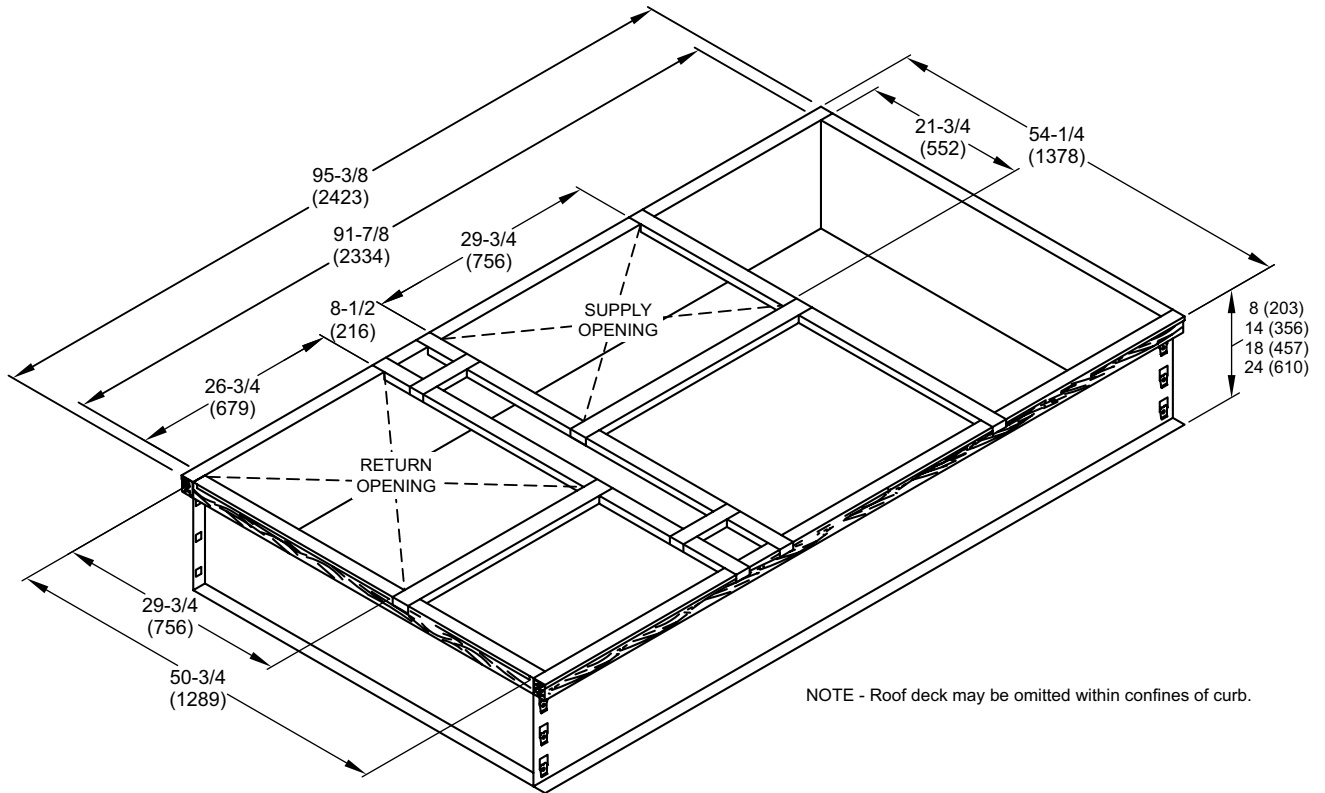
NOTE - Return Air Duct and Transition must be supported.

HORIZONTAL LOW PROFILE BAROMETRIC RELIEF DAMPERS
 (Field installed in horizontal return air duct adjacent to unit)

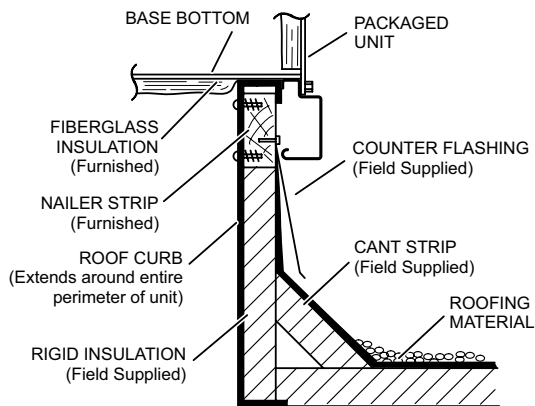


¹ NOTE - Opening size required in return air duct.

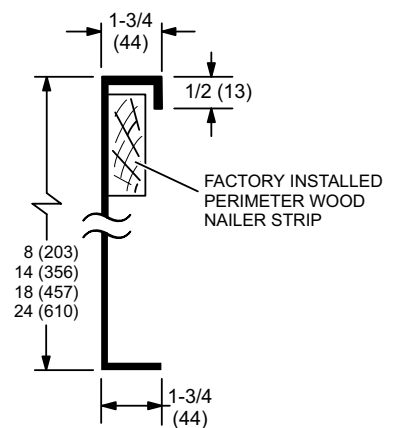
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



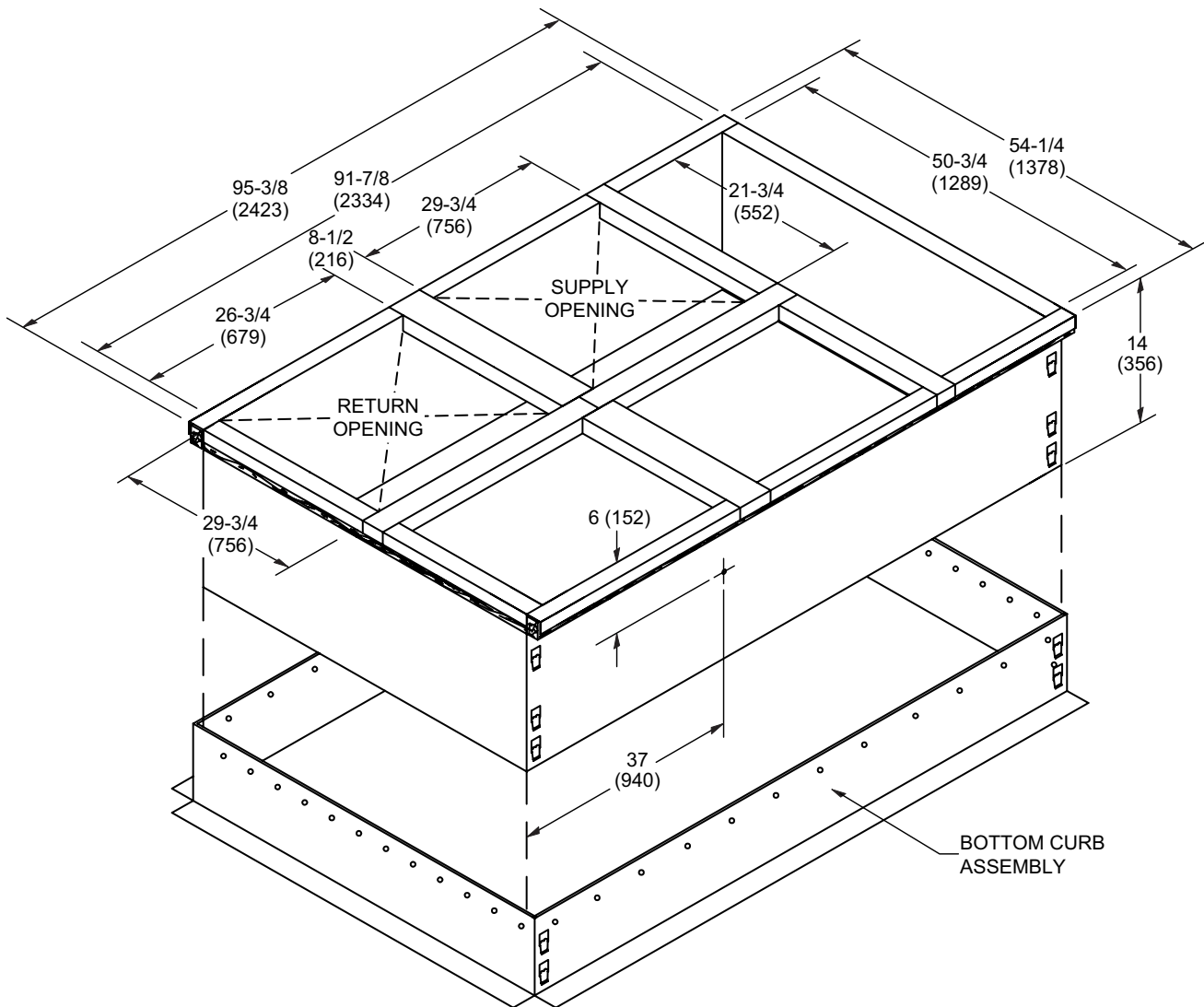
TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB

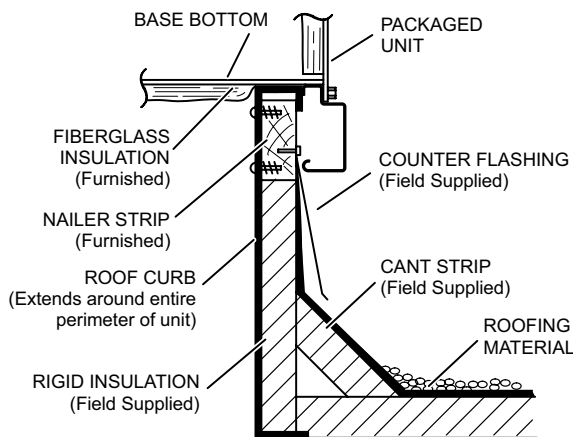


ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

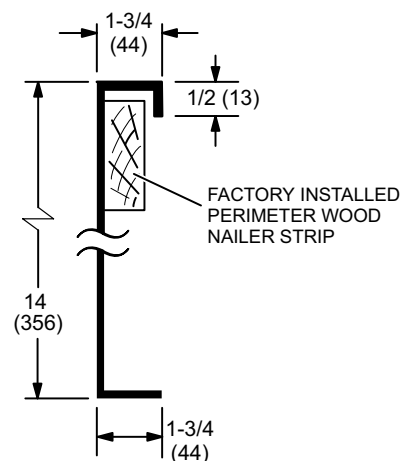


NOTE - Maximum slope pitch is 3/4 in. per 1 foot (19 mm per 305 mm) in any one direction.

TYPICAL FLASHING DETAIL FOR ROOF CURB

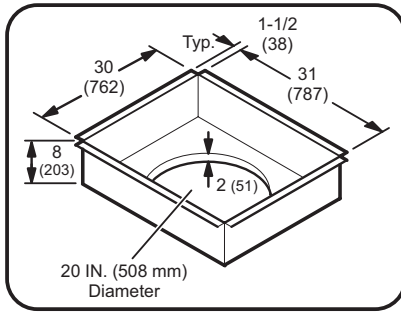


DETAIL ROOF CURB

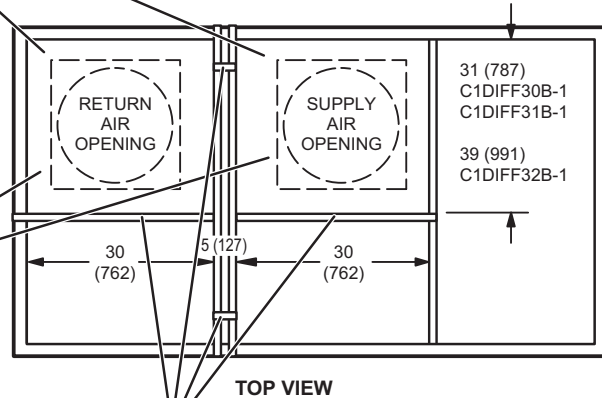
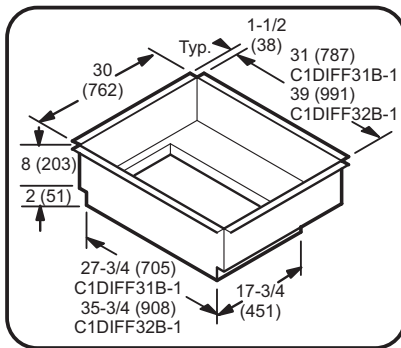


ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS

C1DIFF30B-1 ROUND TRANSITIONS
(for 092 models)



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

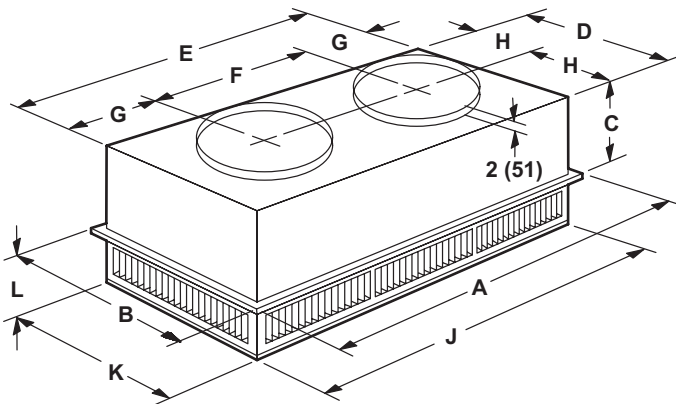


TOP VIEW

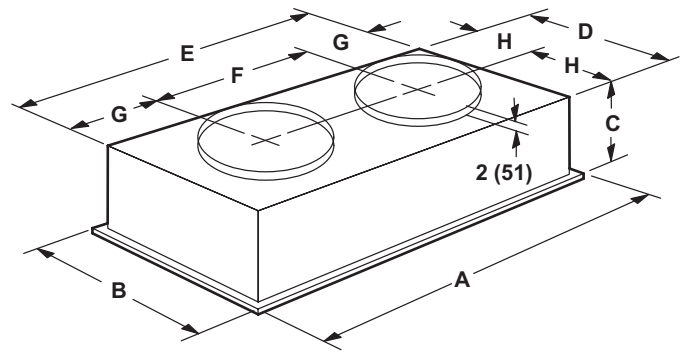
NOTE - These four supports are furnished with the transitions to replace supports furnished with curb for proper transition spacing.

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER

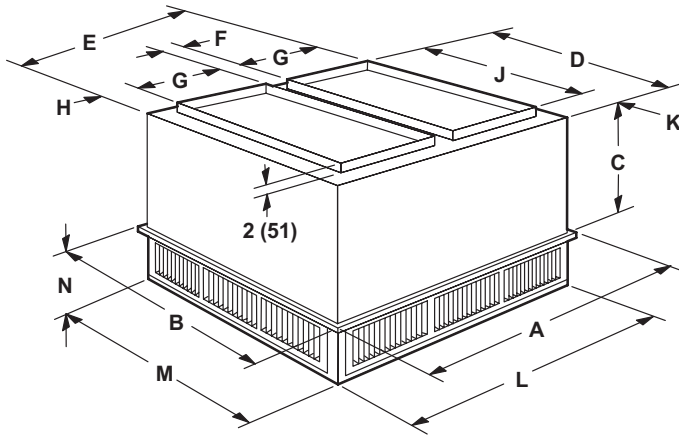


| Model | | RTD11-95S |
|-----------|-----|-----------|
| A | in. | 47-5/8 |
| | mm | 1159 |
| B | in. | 29-5/8 |
| | mm | 752 |
| C | in. | 14-3/8 |
| | mm | 365 |
| D | in. | 27-1/2 |
| | mm | 699 |
| E | in. | 45-1/2 |
| | mm | 1158 |
| F | in. | 22-1/2 |
| | mm | 572 |
| G | in. | 11-1/2 |
| | mm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

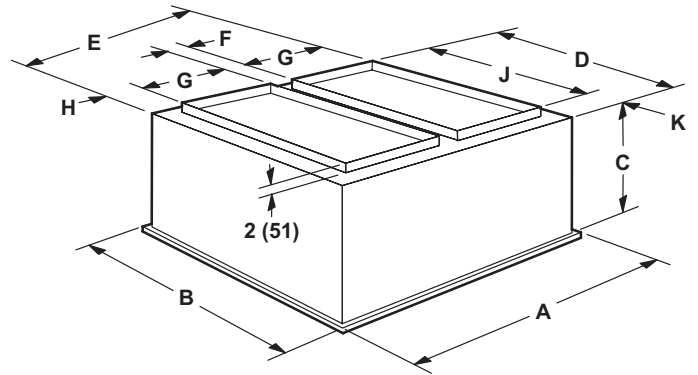
| Model | | FD11-95S |
|-----------|-----|-----------|
| A | in. | 47-5/8 |
| | mm | 1159 |
| B | in. | 29-5/8 |
| | mm | 752 |
| C | in. | 16-5/8 |
| | mm | 422 |
| D | in. | 27 |
| | mm | 686 |
| E | in. | 45 |
| | mm | 1143 |
| F | in. | 22-1/2 |
| | mm | 572 |
| G | in. | 11-1/4 |
| | mm | 286 |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

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER



FLUSH CEILING DIFFUSER

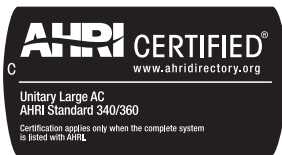


| Model | | RTD11-135S | RTD11-185S |
|-----------|-----|------------|------------|
| A | in. | 47-5/8 | 47-5/8 |
| | mm | 1210 | 1210 |
| B | in. | 35-5/8 | 47-5/8 |
| | mm | 905 | 1210 |
| C | in. | 20-5/8 | 24-5/8 |
| | mm | 524 | 625 |
| D | in. | 33-1/2 | 45-1/2 |
| | mm | 851 | 1156 |
| E | in.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

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

REVISIONS

| Sections | Description of Change |
|-----------------------|------------------------------|
| Options / Accessories | Added modulating gas option. |



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.