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 | 130,000 to 240,000 Btuh







LENNOX







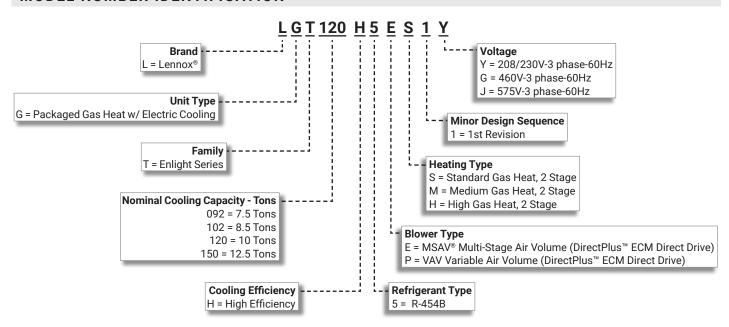








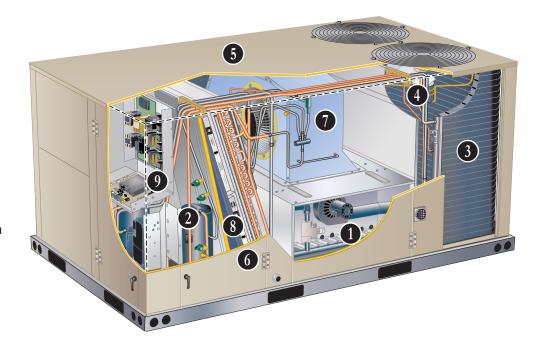
MODEL NUMBER IDENTIFICATION



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



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APPROVALS AND WARRANTY

APPROVALS

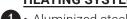
- AHRI Standard 340/360-2023 certified
- ETL and CSA listed
- · Components bonded for grounding to meet safety standards for servicing required by ETL, NEC and CEC
- All models are ASHRAE 90.1 compliant
- All models meet DOE 2023 energy efficiency standards and UL 60335-2-40 Refrigerant Detector Requirements
- All models have HCAI (formerly OSHPD) OSP and Special Seismic Certification (<u>Number: OSP-0596</u>), and meet 2021 International Building Code (IBC), 2022 California Building Code (CBC) ASCE 7, and ICC-ES AC156
- All models meet California Code of Regulations, Title 24 and ASHRAE 90.1-2022 Section 6.4.3.10 requirements for staged airflow
- ISO 9001 Registered Manufacturing Quality System

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 dual stage 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

Required Selections

Gas Input Choice - Order one:

- Standard Gas Heat, 2 Stage (84,500/130,000 Btuh)
- Medium Gas Heat, 2 Stage (117,000/180,000 Btuh)
- High Gas Heat, 2 Stage (156,000/240,000 Btuh)

Options/Accessories

Factory Installed

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

LPG/Propane Kits

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

Enlight Packaged Gas / Electric 7.5 to 12.5 Ton | Page 3

HEATING SYSTEM (continued)

Options/Accessories

Field Installed

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 buildup 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

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



COOLING SYSTEM (continued)

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

Required Selections

Airflow Configuration

· Specify downflow or horizontal

Options/Accessories

Factory or Field Installed

Return Air Adaptor Plate

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

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

CABINET(Continued)

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.

Field Installed

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



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

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

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
- lons 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 plugin 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 prevents 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

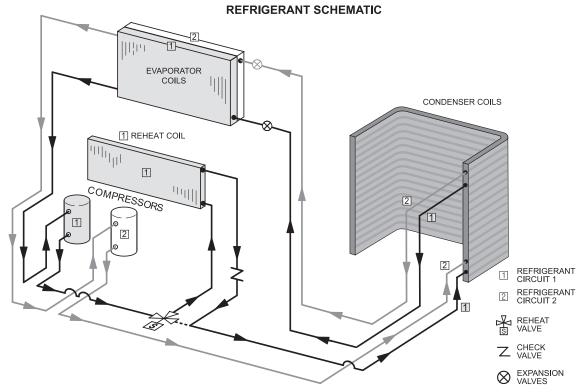
 Reheat operation will initiate on a dehumidification demand and does not require a cooling demand

- 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

Description		Order Number
CS8500 Commercial 7 Day Programmable Thermostat		
CS8500 7-Day Thermostat	No CO₂ Sensing	24K55
	With CO₂ Sensing	24K53
Sensors/Accessories	¹ Remote non-adjustable wall-mount 10k	47W37
	¹ Remote non-adjustable wall-mount 11k	94L61
Sysbus Network Cable (Yellow) for CS8500 and LCS-50	30 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 Insulation - Low smoke PVC, NEC, CMP	1000 ft. box	94L63
Ilisulation - Low Stricke F VC, NEC, CiviF	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 Thermosta	t	
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)

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.

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 Mode

If a unit with Humiditrol® Dehumidification Option receives a call for dehumidification, 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 deenergized.

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.

<u>UNIT OPERATION WITH 3-STAGE THERMOSTAT OR ZONE SENSOR</u> (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)

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.

Dehumidification Mode

If a unit with Humiditrol® Dehumidification Option receives a call for dehumidification, 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 medium 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 energized.

Y3 Demand With A Call For Dehumidification:

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

HEATING MODE (GAS HEAT)

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.

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 MODE

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 An 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 <u>Does Not</u> Feature An 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 MODE (2 Heat)

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 \sim 65% of heating capacity.

W2 Demand:

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

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.

Item Description	Order		Si	ze	
	Number	092	102	120	150
COOLING SYSTEM				,	
Condensate Drain Trap PVC	22H54	ОХ	OX	OX	ОХ
Copper	76W27	Х	Х	Х	Χ
Drain Pan Overflow Switch	21Z07	OX	OX	OX	OX
HEATING SYSTEM					
Bottom Gas Piping Kit	54W95	Х	Х	Х	Χ
Combustion Air Intake Extensions	19W51	Х	Х	Х	Х
Gas Heat Input 130,000 Btuh	Factory	0	0	0	0
180,000 Btuh	Factory	0	0	0	0
240,000 Btuh	Factory	0	0	0	0
Low Temperature Vestibule Heater 208/230V-3ph	22A51	Х	Х	Χ	Х
460V	22A55	X	Х	Х	Х
575V	13X65	Х	Х	Х	Х
LPG/Propane Conversion Kits Standard Heat	14N22	X	Х	Х	Х
Medium Heat	14N23	X	Х	Х	Х
High Heat	14N25	Х	Х	Χ	Х
Stainless Steel Heat Exchanger	Factory	0	0	0	0
Vertical Vent Extension Kit	42W16	X	Х	Х	X
BLOWER - SUPPLY AIR					
DirectPlus™ Blower System with MSAV®	Factory	0	0	0	0
DirectPlus™ Blower System with VAV	Factory	0	0	0	0
CABINET					
Burglar Bars	Y3355	Х	Х	Х	Х
Combination Coil/Hail Guards	24C85	ОХ	ОХ	ОХ	ОХ
Corrosion Protection	Factory	0	0	0	0
Horizontal Discharge Kit	51W25	Х	Х	Х	Х
Return Air Adaptor Plate (for LC/LG/LH and TC/TG/TH unit replacement)	54W96	ОХ	OX	OX	OX
CONTROLS					
Blower Proving Switch	21Z10	ОХ	ОХ	ОХ	OX
Commercial Controls CPC Einstein Integration	Factory	0	0	0	0
LonTalk [®] Module	54W27	ОХ	ОХ	ОХ	ОХ
Novar® LSE	Factory	0	0	0	0
Dirty Filter Switch	53W67	ОХ	ОХ	ОХ	ОХ
Fresh Air Tempering	21Z08	ОХ	ОХ	ОХ	ОХ
Smoke Detector - Supply or Return (Power board and one sensor)	31A68	ОХ	ОХ	ОХ	ОХ
Smoke Detector - Supply and Return (Power board and two sensors)	31A69	ОХ	OX	OX	OX

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

Item Description	Order		Size			
tieni description	Number	092	102	120	150	
INDOOR AIR QUALITY						
Air Filters						
Healthy Climate® High Efficiency Air Filters MER\	/ 8 50W61	ОХ	ОХ	ОХ	ОХ	
20 x 25 x 2 (Order 4 per unit) MERV	13 52W41	ОХ	OX	OX	ОХ	
MERV	16 21U41	X	Х	Х	Χ	
Replacement Media Filter With Metal Mesh Frame (includes non-pleated filter media)	Y3063	Х	Х	Χ	Х	
Indoor Air Quality (CO ₂) Sensors						
Sensor - Wall-mount, off-white plastic cover with LCD display	77N39	Х	Χ	Χ	Χ	
Sensor - Wall-mount, off-white plastic cover, no display	23V86	X	Х	Χ	Χ	
Sensor - Black plastic case, LCD display, rated for plenum mounting	87N52	X	Χ	Χ	Χ	
Sensor - Black plastic case, no display, rated for plenum mounting	87N54	X	Х	Χ	Χ	
CO₂ Sensor Duct Mounting Kit - for downflow applications	85L43	X	Х	Χ	Χ	
Aspiration Box - for duct mounting non-plenum rated CO₂ sensors (77N39)	90N43	X	Х	Χ	Χ	
Needlepoint Bipolar Ionization (NPBI)						
Needlepoint Bipolar Ionization (NPBI) Kit	21U36	Х	Χ	Χ	Χ	
UVC Germicidal Lamps						
¹ Healthy Climate® UVC Light Kit (110/230v-1ph)	21A93	X	Х	Χ	Χ	
Step-Down Transformers 460V primary, 230V secondary	ary 10H20	X	Χ	Χ	Х	
575V primary, 230V seconda	ary 10H21	Х	Х	Х	Х	
ELECTRICAL						
Voltage 60 Hz 208/230V - 3 pha	se Factory	0	0	0	0	
460V - 3 pha	se Factory	0	0	0	0	
575V - 3 pha	se Factory	0	0	0	0	
HACR Circuit Breakers	Factory	0	0	0	0	
² Short-Circuit Current Rating (SCCR) of 100kA (includes Phase/Voltage Detection)	Factory	0	0	0	0	
Disconnect Switch 80 ar	np 54W56	ОХ	ОХ	ОХ	ОХ	
GFI Service 15 amp non-powered, field-wired (208/230V, 460V or	ly) 74M70	ОХ	ОХ	OX	ОХ	
Outlets 15 amp factory-wired and powered (208/230V, 460V on	ly) Factory	0	0	0	0	
³ 20 amp non-powered, field-wired (208/230V, 460V, 575	6V) 67E01	Х	Х	Х	Х	
³ 20 amp non-powered, field-wired (575	V) Factory	0	0	0	0	
Weatherproof Cover for GFI	10C89	Х	Х	Χ	Х	

¹ 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).

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

² Disconnect Switch is furnished and factory installed with High SCCR option.

³ Canada requires a minimum 20 amp circuit. Select 20 amp, non-powered, field wired GFI.

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

O = Configure To Order (Factory Installed)
X = Field Installed

Number 192 192 192 192 192 192 192 192 192 192 192 192 192 192 192 192 192 192 192 193 1			Order		Si	ze	
High Performance Economizer (Downflow or Horizontal 19	Item Description			092	102	120	150
High Performance Economizer (Downflow or Horizontal Includes Economizer Dampers with Outdoor Air Hood and Downflow Barometric Relief Dampers with Exhaust Hood Exhaust Hood separately Horizontal 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 with Exhaust Hood and Horizontal Discharge Kit separately Horizontal Barometric Relief Dampers with Exhaust Hood and Horizontal Discharge Kit separately Horizontal Exhaust Hood Exhaust Hood Representation of the Profile Barometric Relief Dampers with Exhaust Hood Representation Representation	ECONOMIZER			1			
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 University Applications - Use furnished Outdoor Air Hood - Order Horizontal Low Profile Barometric Relief Dampers with Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers with Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Exhaust Hood and Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Challed Profile Separately Horizontal Discharge Kit separately Horizontal Low Profile Barometric Relief Dampers With Challed Profile Separately Discharge Kit Separate Kit Separate Kit Separatel	High Performance Economizer (Approved for California Title 24 Bu	ilding Standards / AMCA	Class 1A	Certifi	ed)		
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 Barometric Relief Dampers Horizontal Barometric Relief Dampers Horizontal Low Profile Barometric Relief Dampers Economizer Controls Differential Enthalpy (Not for Title 24) Order 2 21209 OX OX OX OX Seconomizer Control Sensor is Furnished Factory O	High Performance Economizer (Downflow or Horizontal		20U80	ОХ	OX	OX	ОХ
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 with Exhaust Hood Sakou X		arometric Relief Dampers					
Barometric Relief Dampers with Exhaust Hood and Horizontal Discharge Kit separately	· ·	flow Barometric Relief					
Horizontal Low Profile Barometric With Exhaust Hood SakO4 X X X Economizer Controls Sensor is Furnished Factory O O O O O O O O O							
Differential Enthalpy (Not for Title 24)	Horizontal Barometric Relief Dampers						
Differential Enthalpy (Not for Title 24)	Horizontal Low Profile Barometric With Exhaust Hood		53K04	Х	Χ	Χ	Χ
Sensible Control Sensor is Furnished Factory O O O O Single Enthalpy 21209 OX OX OX OX OX OX OX O	Economizer Controls			,			
Single Enthalpy	Differential Enthalpy (Not for Title 24)	Order 2	21Z09	OX	OX	OX	ОХ
Building Pressure Control 13J77 X X X	Sensible Control	Sensor is Furnished	Factory	0	0	0	0
Dutdoor Air CFM Control Sensor Field Provided Factory O O O	Single Enthalpy		21Z09	ОХ	OX	ОХ	ОХ
Sensor Field Provided Factory O O O O O O O O O	Building Pressure Control		13J77	Х	Χ	Х	Χ
Dutdoor Air Dampers With Outdoor Air Hood Motorized 14G28 0X 0X 0X Manual 14G29 X X X POWER EXHAUST Standard Static 208/230V-3ph 53W45 0X 0X 0X 460V-3ph 53W45 0X 0X 0X 675V-3ph 53W46 0X 0X 0X 0X 675V-3ph 53W46 0X 0X 0X 0X 0X 0X 0X 0	Outdoor Air CFM Control		13J76	Х	Χ	Х	Χ
Motorized 14G28 0X 0X 0X 0X 0X 0X 0X 0	Global Control	Sensor Field Provided	Factory	0	0	0	0
Motorized 14G28 0X 0X 0X Manual 14G29 X <td>OUTDOOR AIR</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	OUTDOOR AIR						
Manual M	Outdoor Air Dampers With Outdoor Air Hood						
Power Exhaust Standard Static 208/230V-3ph 53W44 60V 0X 0X 0X 0X 675V-3ph 53W46 0X 0X 0X 0X 0X 0X 0X 0	Motorized		14G28	ОХ	OX	OX	ОХ
Standard Static 208/230V-3ph 460V-3ph 53W45 575V-3ph 53W46 OX O	Manual		14G29	Х	Χ	Х	Χ
	POWER EXHAUST						
Multiput Multiput	Standard Static	208/230V-3ph	53W44	ОХ	OX	OX	ОХ
HUMIDITROL® CONDENSER REHEAT OPTION Humiditrol Dehumidification Option Factory O O O		460V-3ph	53W45	ОХ	OX	ОХ	ОХ
Humiditrol Dehumidification Option Factory O O O		575V-3ph	53W46	ОХ	OX	ОХ	ОХ
ROOF CURBS Hybrid Roof Curbs, Downflow S in. height 11F54 X X X X X X X X X	HUMIDITROL® CONDENSER REHEAT OPTION						
ROOF CURBS Hybrid Roof Curbs, Downflow S in. height 11F54 X X X X X X X X X	Humiditrol Dehumidification Option		Factory	0	0	0	0
Hybrid Roof Curbs, Downflow 11F54							
8 in. height 11F54 X X X 14 in. height 11F55 X X X 18 in. height 11F56 X X X 24 in. height 11F57 X X X Adjustable Pitch Curb, Downflow 14 in. height 54W50 X X X CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X X RTD11-135S 13K62 X X X RTD11-185S 13K63 Incomparison of the property of th	Hybrid Roof Curbs, Downflow						
14 in. height 11F55 X X X 18 in. height 11F56 X X X 24 in. height 11F57 X X X Adjustable Pitch Curb, Downflow 14 in. height 54W50 X X X CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X X RTD11-135S 13K62 X X X RTD11-185S 13K63 Inch Control of the control			11F54	X	Χ	Х	Х
18 in. height 11F56 X X X 24 in. height 11F57 X X X Adjustable Pitch Curb, Downflow 14 in. height 54W50 X X X CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X X RTD11-135S 13K62 X X X RTD11-185S 13K63 X X X Flush - Order one FD11-95S 13K56 X X X Flush - Order one FD11-185S 13K56 X X X X Transitions (Supply and Return) - Order one C1DIFF30B-1 12X65 X X X X							X
24 in. height 11F57 X X X Adjustable Pitch Curb, Downflow 14 in. height 54W50 X X X CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X X RTD11-135S 13K62 X X X RTD11-185S 13K63 Inches and the property of th	-						X
Adjustable Pitch Curb, Downflow 14 in. height 54W50 X X X CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X RTD11-135S 13K62 X X RTD11-185S 13K63 Inches and the property of the proper							X
14 in. height 54W50 X X X CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X							
CEILING DIFFUSERS Step-Down - Order one RTD11-95S 13K61 X RTD11-135S 13K62 X X X RTD11-185S 13K63 Flush - Order one FD11-95S 13K56 X FD11-135S 13K57 X X X FD11-185S 13K58 Transitions (Supply and Return) - Order one C1DIFF30B-1 12X65 X C1DIFF31B-1 12X66 X X X			54W50	Х	Χ	Χ	Χ
Step-Down - Order one RTD11-95S 13K61 RTD11-135S 13K62 RTD11-185S 13K63 X <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>							
RTD11-135S 13K62 X X		PTD11_059	131/61	Y			
RTD11-185S 13K63	Step-Down - Order one				Y	Y	
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					^		X
FD11-135S 13K57 X X FD11-185S 13K58 Transitions (Supply and Return) - Order one C1DIFF30B-1 12X65 X C1DIFF31B-1 12X66 X X	Flush - Order one			X			
FD11-185S 13K58 Transitions (Supply and Return) - Order one C1DIFF30B-1 12X65 X C1DIFF31B-1 12X66 X X	. 14511 - 51401 0110				X	X	
Transitions (Supply and Return) - Order one C1DIFF30B-1 12X65 X C1DIFF31B-1 12X66 X X					^	, ,	Х
C1DIFF31B-1 12X66 X X	Transitions (Supply and Return) - Order one			Y			
	Transmistro (Ouppry and Notarry - Order one				~	~	
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

SPECIFICA	ATIONS				M	SAV MODELS						
Model			LGT092H5E	LGT102H5E	LGT120H5E	LGT150H5E						
Nominal Tonn	age		7.5 Ton	8.5 Ton	10 Ton	12.5 Ton						
Efficiency Typ	е		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	Gross Cooling C	apacity (Btuh)	94,000	103,000	121,000	142,000						
Performance	¹ Net Cooling C	apacity (Btuh)	92,000	100,000	118,000	138,000						
	¹ AHRI Rated	Air Flow (cfm)	3000	3400	3400	4100						
	¹ IEE	R (Btuh/Watt)	16.1	16.1	16.1	15.4						
	¹ EE	R (Btuh/Watt)	12.3	12.1	12.1	10.8						
	Total Ur	it Power (kW)	7.6	8.0	9.9	12.8						
Sound Rating	Number	dBA	88	88	89	89						
Refrigerant	Re	frigerant Type	R-454B	R-454B	R-454B	R-454B						
Charge	Without Reheat	Circuit 1	6 lbs. 4 oz.	6 lbs. 4 oz.	5 lbs. 14 oz.	5 lbs. 12 oz.						
	Option	Circuit 2	5 lbs. 14 oz.	5 lbs. 14 oz.	5 lbs. 14 oz.	6 lbs. 4 oz.						
	With Reheat	Circuit 1	6 lbs. 8 oz.	6 lbs. 8 oz.	6 lbs. 4 oz.	6 lbs. 2 oz.						
	Option	Circuit 2	5 lbs. 14 oz. 5 lbs. 14 oz. 5 lbs. 14 oz. 6 lbs. 4 oz.									
Gas Heat Avai	lable			See pa	age 26							
Compressor T	ype (number)				e Scroll (1) ge Scroll (1)							
Outdoor	Net face a	ea - ft.² (total)	27.5	27.5	27.5	27.5						
Coil		Rows	1	1	1	1						
		Fins - in.	20	20	20	20						
Outdoor Coil	Motor HP (num	ber and type)	1/3 (2 PSC)	1/3 (2 PSC)	1/2 (2 PSC)	1/2 (2 PSC)						
Fans		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	Net face a	rea - ft.² (total)	13.54	13.54	13.54	13.54						
Coil	Tube	diameter - in.	3/8	3/8	3/8	3/8						
		Rows	4	4	4	4						
		Fins - in.	14	14	14	14						
	Condensate drain s	ize (NPT) - in.		(1) 1							
	Expansion	n device type	Balanced Port T	hermostatic Expans	ion Valve,removable	e power element						
Indoor	Motor HP (num	ber and type)	3.75 (1 ECM)	CM) 3.75 (1 ECM) 3.75 (1 ECM) 3.75								
Blower	Wheel (Number) diamet	er x width - in.	in. (1) 22 x 9 (1) 22 x 9 (1) 22 x 9 (1) 22 x 9									
Filters		Type of filter	r MERV 4, Disposable									
	Numbe	and size - in.	n. (4) 20 x 25 x 2									
Line voltage d	ata (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.

SPECIFIC	ATIONS				VAV MODELS						
Model		LGT092H5P	LGT102H5P	LGT120H5P	LGT150H5P						
Nominal Toni	nage	7.5 Ton	8.5 Ton	10 Ton	12.5 Ton						
Efficiency Ty	ре	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	Gross Cooling Capacity (Btuh)	94,000	103,000	121,000	142,000						
Performance	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	Refrigerant Type	R-454B	R-454B	R-454B	R-454B						
Charge	Without Reheat Circuit 1	6 lbs. 4 oz.	6 lbs. 4 oz.	5 lbs. 14 oz.	5 lbs. 12 oz.						
	Option Circuit 2	5 lbs. 14 oz.	5 lbs. 14 oz.	5 lbs. 14 oz.	6 lbs. 4 oz.						
Gas Heat Ava	nilable		See p	age 26							
Compressor	Type (number)			e Scroll (1) ge 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	Motor (number) HP (type)	(2) 1/3 (PSC)	(2) 1/3 (PSC)	(2) 1/2 (PSC)	(2) 1/2 (PSC)						
Fans	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	Net face area - ft.² (total)	13.54	13.54	13.54	13.54						
Coil	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 T	hermostatic Expans	sion Valve,removabl	e power element						
Indoor	Motor HP (number and type)	3.75 (1 ECM)	3.75 (1 ECM)	3.75 (1 ECM)	3.75 (1 ECM)						
Blower	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										
	Number and size - in.			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.

SPECIFICA	TIONS				GAS HEAT
Heat Input Type	е		Standard	Medium	High
Number of Gas	Heat Stages		2	2	2
Gas Heating	Input - Btuh	First Stage	85,000	117,000	156,000
Performance		Second Stage	130,000	180,000	240,000
	Output - Btuh	Second Stage	105,000	146,000	194,000
	Tempera	ture Rise Range - °F	15 - 45	30 - 60	40 - 70
	Minim	num 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 Pressu	re - Nat. / LPG		7 in. w.g. / 11 in. w.g.	
Gas Supply Pre	ssure Range	Min./Max. (Natural)		4.7 - 10.5 in. w.g.	
		Min./Max. (LPG)			

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 Manifo	Input Rate (Btuh)	
		Natural Gas	LPG/ Propane	
Standard (2 stage)	2001 - 4500	1.6 / 3.1	4.4 / 8.9	84,500 / 120,000
Medium (2 stage)	2001 - 4500	1.6 / 3.1	4.4 / 8.9	117,000 / 166,000
High (2 stage)	2001 - 4500	1.6 / 3.1	4.4 / 8.9	156,000 / 221,000

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)

							Outdoor Air Temperature Entering Outdoor Coil														
Entering	Total			65°F					75°F				3	35°F					95°F		
Wet Bulb Tem-	Air Volume	Total Cool Cap.	Comp. Motor Input	Ra	ible To atio (S/)rv Bul	T)	Total Cool Cap.	Comp. Motor Input	R	ible To atio (S/ orv Bul	T)	Total Cool Cap.	Comp. Motor Input	Ra	ible To atio (S/ erv Bul	T)	Total Cool Cap.	Comp. Motor Input	R	ible To atio (S/ [*] Drv Bull	T)
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		1	85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Сар.	Input		ry Bull	b	Cap.	Input	D	ry Bul	b	Сар.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

= .4								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Entering	Total		8	35°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	Ratio (S/T)		T)	Cool	Motor	Ratio (S/T)		T)	Cool	Motor	Ratio (S/T)		
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b	Cap.	Input	ut Dry Bulb			Cap.	Input		ry Bull	00
	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor Co	oil						
Entering Wet	Total			65°F					75°F				3	35°F					95°F		
Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor		atio (S		Cool	Motor		atio (S/		Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		Dry Bulk	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	lic						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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	8.0	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor Co	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor		atio (S/		Cool	Motor		atio (S/		Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Entering Wet	Total			65°F					75°F					85°F					95°F		
Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Сар.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	C	ry Bul	b	Cap.	Input		Dry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

= .4								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Entering	Total		1	85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		Dry Bull	b
poruturo	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Entering	Total			85°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		Total	Comp.		ible To	
Tem-	Volume	Cool Cap.	Motor Input		atio (S/)rv Bul		Cool Cap.	Motor Input		atio (S/)rv Bul		Cool Cap.	Motor Input		atio (S/ rv Bul		Cool Cap.	Motor Input		atio (S/ ⁻ Ory Bull	
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		(65°F					75°F					35°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratui	e Enter	ing Outo	loor C	lic						
Entering	Total		8	35°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Сар.	Input	D	ry Bul	b	Сар.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Сар.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Entering	Total			35°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To			Comp.		ible To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor		atio (S/		Cool	Motor		atio (S/		Cool	Motor	_	atio (S/		Cool	Motor	R	atio (S/	T)
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	D
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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)

								Ou	tdoor A	ir Tem	peratui	re Enter	ing Out	door C	oil						
Entering	Total			65°F					75°F				1	35°F					95°F		
Wet Bulb	Air Volume	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		Total	Comp.		ible To	
Tem- perature	volume	Cool Cap.	Motor Input		atio (Sa Ory Bul		Cool Cap.	Motor Input		atio (S/)ry Bul		Cool Cap.	Motor Input		atio (S/)ry Bul		Cool Cap.	Motor Input		atio (S/ Ory Bull	
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			65°F					75°F				1	35°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	R	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	tio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input	D	ry Bul	b	Сар.	Input		ry Bull	b
poruturo	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

F								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total			65°F					75°F				8	35°F					95°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	(T)	Cool	Motor	R	atio (S/	Τ)
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

								Out	tdoor A	ir Tem	peratu	re Enter	ing Out	door C	oil						
Entering	Total		(65°F					75°F					85°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

HUMIDITROL® DEHUMIDIFICATION SYSTEM RATINGS

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

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Entering	Total			65°F					75°F				3	85°F					95°F		
Wet Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ble To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	R	atio (S/	(T)	Cool	Motor		atio (S/		Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bull	b
perature	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Entering Wet	Total			65°F					75°F				1	85°F					95°F		
Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	(T)	Cool	Motor	R	atio (S/	T)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		ry Bull	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

F								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		(65°F					75°F					35°F					95°F		
Wet Bulb	Air	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ble To		Total	Comp.		ible To	
Tem-	Volume	Cool	Motor		atio (S		Cool	Motor		atio (S/		Cool	Motor	Ra	tio (S/	T)	Cool	Motor		atio (S/	
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		Dry Bull	b
	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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

F								Ou	tdoor A	ir Tem	peratui	re Enter	ing Outo	loor C	oil						
Entering Wet	Total		(65°F					75°F				8	35°F					95°F		
Bulb	Air	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total
Tem-	Volume	Cool	Motor	Ra	atio (S	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	T)
perature		Сар.	Input		ry Bul	b	Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		ry Bulk	b
porataro	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
	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
63°F	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
	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
67°F	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
	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
71°F	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

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						Total S	tatic Pre	essure -	in. w.g.					
Air Volume	0	.2	0	.4	0	.6	0	.8	1	.0	1	.2	1	.4
cfm	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						Total S	tatic Pre	essure -	in. w.g.			
Air Volume	1.	.6	1	.8	2	.0	2	.2	2	.4	2	.6
cfm	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.

			Gas He	at Exchan	ger				Filters		Return
Air Volume cfm	Wet Ind	oor Coil	Standard Heat	Medium Heat	High Heat	Economizer	Humiditrol® Reheat Coil	MERV 8	MERV 13	MERV 16	Air Adaptor Plate
	092, 102	120, 150									Tiate
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.

		RTD11 Step-	Down Diffuser		FD11 Flush
Size	Air Volume cfm	2 Ends Open	1 Side, 2 Ends Open	All Ends & Sides Open	Diffuser
	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
092	3000	0.32	0.29	0.25	0.25
092	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
	3800	0.73	0.63	0.57	0.51
	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
102 & 120	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
	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
150	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

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

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 D	ATA			7.5 TON
Model		LGT092H5E	/ LGT092H5P	
¹ Voltage - 60Hz		208/230V-3ph	460V-3ph	575V-3ph
Compressor 1	Rated Load Amps	11.9	6.8	4.8
(Non-Inverter)	Locked Rotor Amps	112	61.8	39
Compressor 2	Rated Load Amps	12.2	6.4	5.1
(Non-Inverter)	Locked Rotor Amps	120.4	50	41
Outdoor Fan	Full Load Amps (2 Non-ECM)	2.4	1.3	1
Motors (2)	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	HP	3.75	3.75	3.75
Motor	Full Load Amps	8	4.2	3.6
² Maximum	Unit Only	50	25	20
Overcurrent Protection (MOCP)	With (1) 0.33 HP Power Exhaust	50	25	20
³ Minimum	Unit Only	40	22	17
Circuit Ampacity (MCA)	With (1) 0.33 HP Power Exhaust	43	24	18

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

ELECTRICAL D	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.

 $^{^{\}scriptscriptstyle 1}\,$ 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.

 $^{^{\}mbox{\tiny 1}}$ 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	Rated Load Amps	13.8	6.9	5.8						
(Non-Inverter)	Locked Rotor Amps	150	58	47.8						
Compressor 2	Rated Load Amps	16	7.1	6.4						
(Non-Inverter)	Locked Rotor Amps	156.4	69	47.8						
Outdoor Fan	Full Load Amps (2 Non-ECM)	3	1.5	1.2						
Motors (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	HP	3.75	3.75	3.75						
Motor	Full Load Amps	8	4.2	3.6						
² Maximum	Unit Only	60	30	25						
Overcurrent Protection (MOCP)	With (1) 0.33 HP Power Exhaust	60	30	25						
³ Minimum	Unit Only	48	23	20						
Circuit Ampacity (MCA)	With (1) 0.33 HP Power Exhaust	51	25	21						

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

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

ELECTRICAL D	DATA			12.5 TON			
Model		LGT150H5E/ LGT150H5P					
¹ Voltage - 60Hz		208/230V-3ph	460V-3ph	575V-3ph			
Compressor 1	Rated Load Amps	19.2	9.1	6.2			
(Non-Inverter)	Locked Rotor Amps	162.3	70.8	58.2			
Compressor 2	Rated Load Amps	22.4	9.1	7.2			
(Non-Inverter)	Locked Rotor Amps	166.2	74.6	54			
Outdoor Fan	Full Load Amps (2 Non-ECM)	3	1.5	1.2			
Motors (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	HP	3.75	3.75	3.75			
Motor	Full Load Amps	8	4.2	3.6			
² Maximum	Unit Only	80	35	25			
Overcurrent Protection (MOCP)	With (1) 0.33 HP Power Exhaust	80	35	25			
³ Minimum	Unit Only	62	28	22			
Circuit Ampacity (MCA)	With (1) 0.33 HP Power Exhaust	64	29	23			

 $\ensuremath{\mathsf{NOTE}}$ - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

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

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

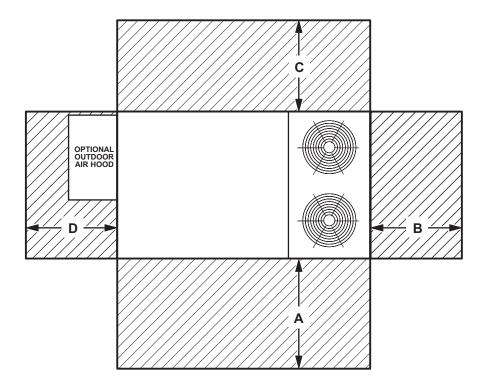
² 2 HACR type breaker or fuse.

 $^{^{\}mbox{\scriptsize 1}}$ 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.

UNIT CLEARANCES



¹ Unit Clearance	Α		В		С		D		Тор
· Onit Clearance	in.	mm	in.	mm	in.	mm	in.	mm	Clearance
Service Clearance	60	1524	36	914	36	934	60	1524	
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

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

OUTDOOR SOUND DATA								
	¹ Sound Rating							
Size	125	250	500	1000	2000	4000	8000	Number (dBA)
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.

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.

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								
0:	N	let	Shipping					
Size	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				

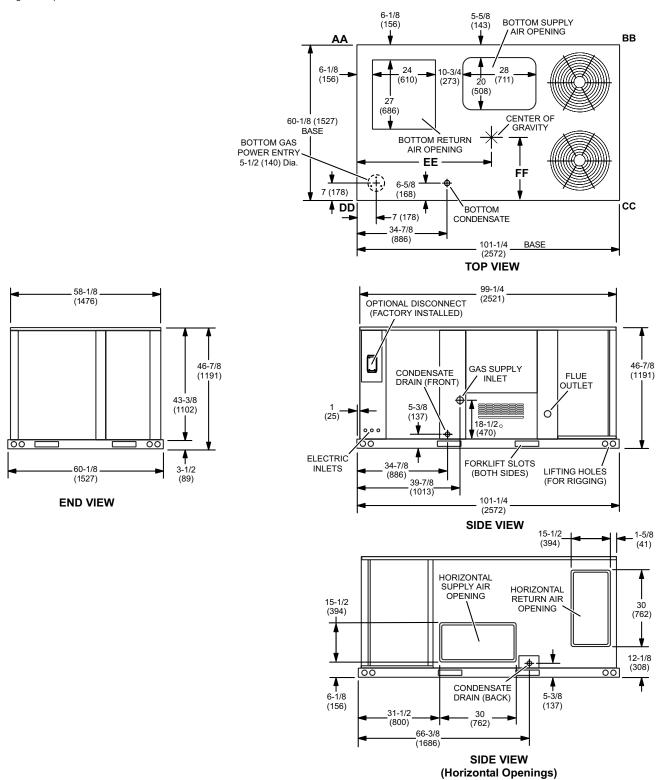
FACTORY / FIELD INSTALLED OPTIONS AND	ACCESSORIES - N	ET WEIGHTS	
Description		lbs.	kg
ECONOMIZER / OUTDOOR AIR / EXHAUST			
Economizer			
Economizer Dampers		56	26
Outdoor Air Hood (downflow)		21	10
Barometric Relief Dampers (downflow)		9	4
Barometric Relief Dampers (low profile horizontal)		20	9
Outdoor 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

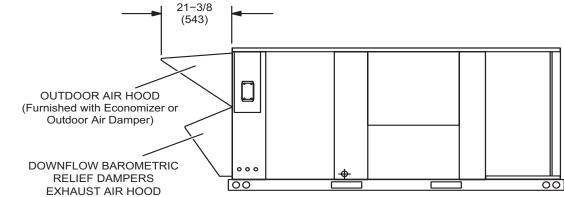
	CORNER WEIGHTS C										CENTER OF GRAVITY													
0:	AA					BB						CC DD					EE				FF			
Size	Ва	se	Ma	ıx.	Ва	se	Ma	IX.	Ва	se	Ma	ax.	Ва	se	Ma	ax.	Ва	se	Ma	ax.	Ва	se	Ma	ax.
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm	in.	mm	in.	mm
092	293	133	338	153	263	119	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.



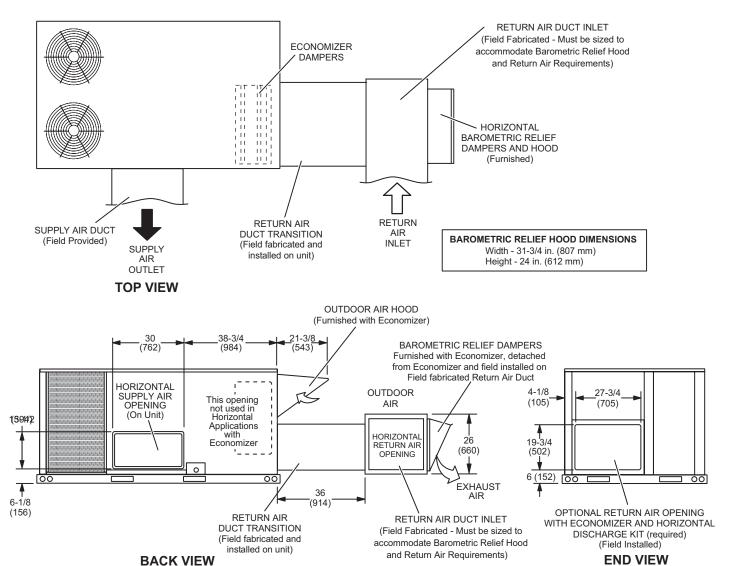
OUTDOOR AIR HOOD DETAIL



(Furnished with Economizer, Field Installed)

HORIZONTAL ECONOMIZER APPLICATION

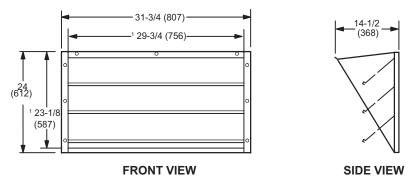
(With Furnished Barometric Relief Dampers and Optional Horizontal Discharge Kit - Required)



NOTE - Return Air Duct and Transition must be supported.

BAROMETRIC RELIEF DAMPERS (Furnished with Economizer)

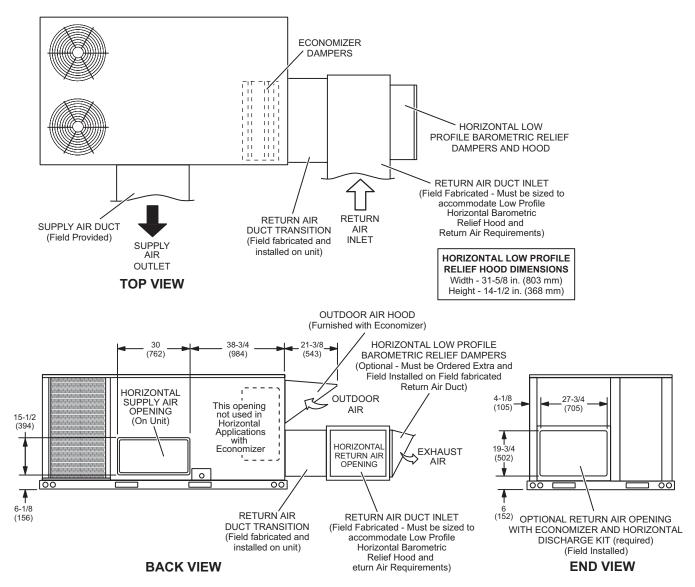
(Field installed in horizontal return air duct adjacent to unit)



¹ NOTE - Opening size required in return air duct.

HORIZONTAL ECONOMIZER APPLICATION

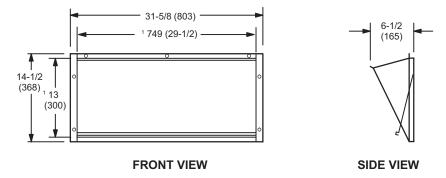
(with Optional Low Profile Horizontal Barometric Relief Dampers and Horizontal Discharge Kit - Required)



NOTE - Return Air Duct and Transition must be supported.

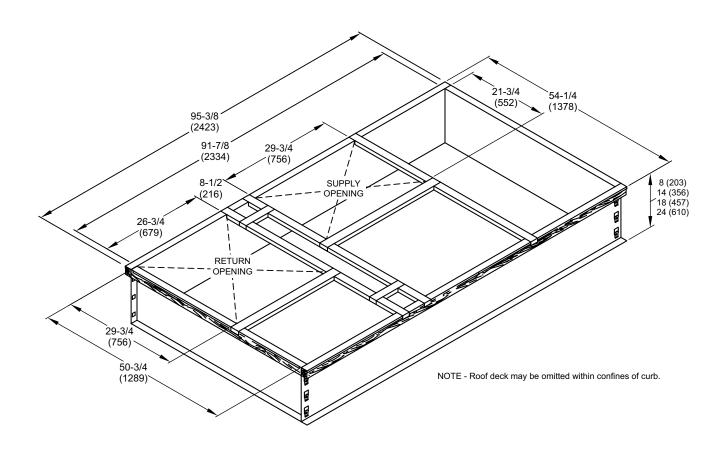
HORIZONTAL LOW PROFILE BAROMETRIC RELIEF DAMPERS

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

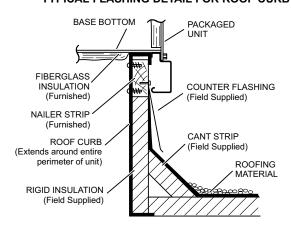


¹ NOTE - Opening size required in return air duct.

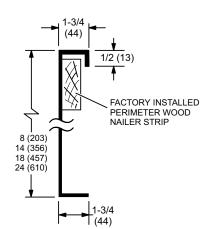
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



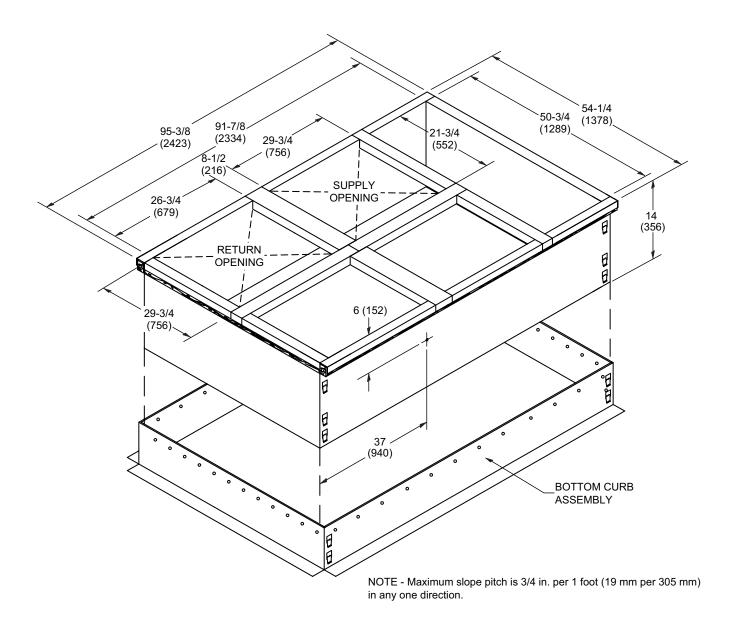
TYPICAL FLASHING DETAIL FOR ROOF CURB



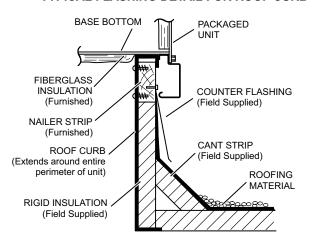
DETAIL ROOF CURB



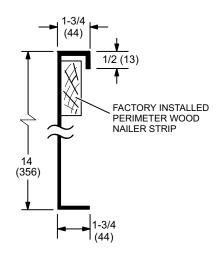
ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING



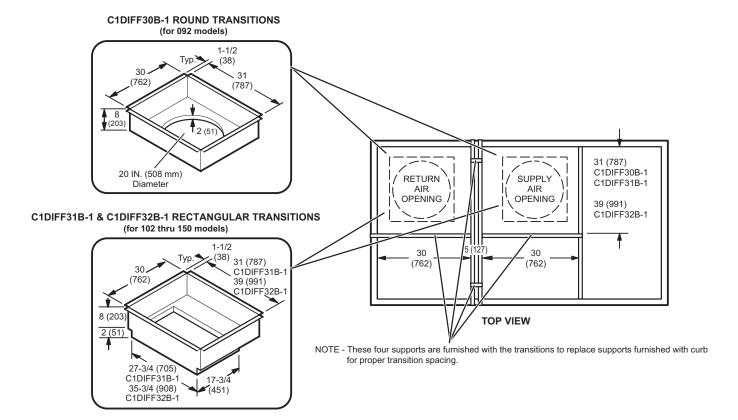
TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB



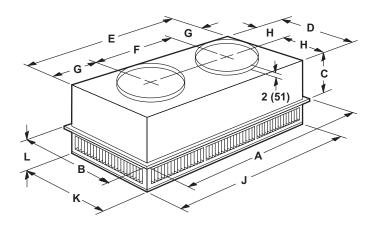
ROOF CURBS WITH SUPPLY & RETURN AIR TRANSITIONS FOR CEILING DIFFUSERS

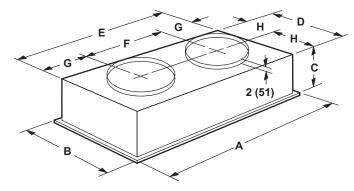


COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER

FLUSH CEILING DIFFUSER





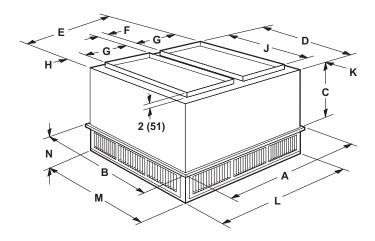
Model		RTD11-95S				
Α	in.	47-5/8				
	mm	1159				
В	in.	29-5/8				
	mm	752				
С	in.	14-3/8				
	mm	365				
D	in.	27-1/2				
	mm	699				
E	in.	45-1/2				
	mm	1158				
F	in.	22-1/2				
	mm	572				
G	in.	11-1/2				
	mm	292				
Н	in.	13-3/4				
	mm	349				
J	in.	45-1/2				
	mm	1156				
K	in.	27-1/2			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

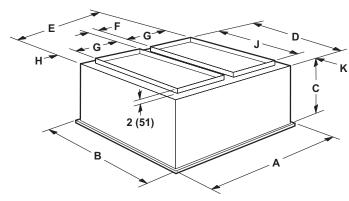
Model		FD11-95S			
Α	in.	47-5/8			
	mm	1159			
В	in.	29-5/8			
	mm	752			
С	in.	16-5/8			
	mm	422			
D	in.	27			
	mm	686			
E	in.	45			
	mm	1143			
F	in.	22-1/2			
	mm	572			
G	in.	11-1/4			
	mm	286			
Н	in.	13-1/2			
	mm	343			
Duct Size	in.	20 round			
	mm	508 round			

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER

FLUSH CEILING DIFFUSER





Model		RTD11-135S	RTD11-185S		
Α	in.	47-5/8	47-5/8		
	mm	1210	1210		
В	in.	35-5/8	47-5/8		
	mm	905	1210		
С	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		
Н	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		

	FD11-135S	FD11-185S			
in.	47-5/8	47-5/8			
mm	1210	1210			
in.	35-5/8	47-5/8			
mm	905	1210			
in.	23-1/4	29-1/4			
mm	591	743			
in.	33	45			
mm	838	1143			
in.	45	45			
mm	1143	1143			
in.	4-1/2	4-1/2			
mm	114	114			
in.	18	18			
mm	457	457			
in.	2-1/4	2-1/4			
mm	57	57			
in.	28	36			
mm	711	914			
in.	2-1/2	4-1/2			
mm	64	114			
in.	18 x 28	18 x 36			
mm	457 x 711	457 x 914			
	mm in.	in. 47-5/8 mm 1210 in. 35-5/8 mm 905 in. 23-1/4 mm 591 in. 33 mm 838 in. 45 mm 1143 in. 4-1/2 mm 114 in. 18 mm 457 in. 2-1/4 mm 57 in. 28 mm 711 in. 2-1/2 mm 64 in. 18 x 28			

REVISIONS	
Sections	Description of Change
Options / Accessories	Added Burglar Bars.













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