LENNO)

LGT

ENLIGHT ROOFTOP UNITS



COMMERCIAL PRODUCT SPECIFICATIONS (EHB)

3 to 5 Tons

Net Cooling Capacity | 36,000 to 60,000 Btuh Gas Input Heat Capacity | 60,000 and 100,000 Btuh













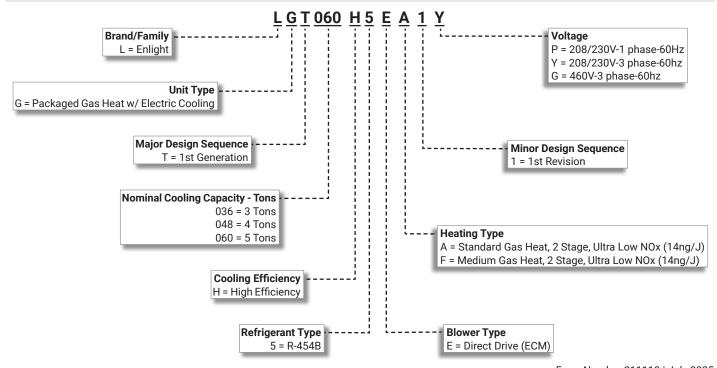






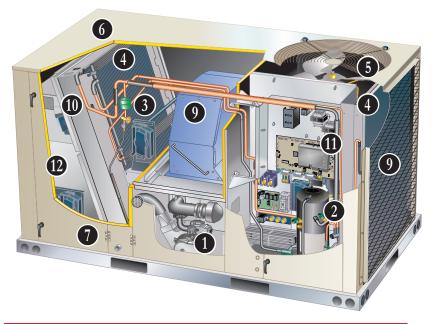


MODEL NUMBER IDENTIFICATION



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 Assembly
- 2. Two-Stage Compressor
- 3. Filter/Drier
- 4. Environ™ Coil System
- 5. Variable Speed (ECM) Fan Motor
- 6. Heavy Gauge Steel Cabinet
- 7. Hinged Access Panels
- 8. Combination Coil/Hail Guards (option)
- 9. Supply Air Direct Drive (ECM) Blower
- 10. Air Filters
- 11. Lennox® CORE Control System
- 12. Economizer (option)

NOTE - ULTRA-LOW NOX MODEL ARE NATURAL GAS ONLY!
NOTE - NOT AVAILABLE IN ALL AREAS!
CONTACT YOUR NEAREST LENNOX SALES OFFICE FOR DETAILS.

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APPROVALS AND WARRANTY

APPROVALS

- AHRI Certified to AHRI Standard 210/240-2023
- ETL and CSA listed
- Approved by the California Energy Commission and meets California Nitrogen Oxides Standard (NOx) limits of 14 ng/J
- · Unit and components are ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
- · 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 are ENERGY STAR® certified to use less energy, help save money on utility bills, and help protect the
 environment
- ISO 9001 Registered Manufacturing Quality System

WARRANTY

- · Heat exchanger Limited ten 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 Heat Exchanger Assembly

- Heavy gauge stainless steel heat exchanger with single premix stainless steel burner
- Tubular type design
- Designed for normal expansion and contraction with maximum efficiency and minimum resistance to air flow
- Laboratory life cycle tested in excess of industry standards
- Compact size permits low overall design of furnace cabinet

Direct Spark Ignition

- · Provides positive and safe main burner ignition
- · Spark is intermittent and occurs only when required

Limit Controls

- · Redundant limit controls
- Fixed temperature setting
- Protects heat exchanger and other components from overheating

Modulating Gas Control Valve

 24 volt redundant combination modulating gas control valve combines manual shut off switch (On-Off), automatic electric valve (dual) and gas pressure regulation into a compact combination control

Variable-Speed Combustion Air Inducer

- Heavy duty blower prepurges heat exchanger and safely vents flue products
- ECM variable speed motor
- Proves blower operation before allowing gas valve to open
- · Operates only during heating cycle

Safety Switches

- Flame roll-out switch, flame sensor and combustion air inducer proving switch protect system operation
- All safety switches are monitored by the Lennox® CORE Unit Controller and diagnostic information is reported and recorded

Required Selections

Gas Input Choice - Order one:

- Standard Gas Heat (2 Stage) 45,000 / 60,000 Btuh
- Medium Gas Heat (2 Stage) 75,000 / 100,000 Btuh

COOLING SYSTEM

- Designed to maximize sensible and latent cooling performance at design conditions
- System operation from 0°F to 125°F without 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 Two-Stage Scroll Compressor

- Two-stage scroll compressors on all models for high performance, reliability, quiet operation, and increased part-load efficiency
- Resiliently mounted on rubber grommets for quiet operation

Compressor Crankcase Heater

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

Thermal Expansion Valve

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

3 Filter/Drier

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

High Pressure Switch

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

Low Pressure Switch

 Protects the compressor 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

4 Environ™ Coil System

- · Condenser and evaporator coil
- Coils features 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)
- · High durability
- · All aluminum construction

- · Fewer brazed joints
- · Compact design
- · Reduced unit weight
- Easy maintenance/cleaning
- Face-split design
- Condenser coil has mounting brackets with rubber inserts which secures coil to unit providing vibration dampening and corrosion protection
- Hydrophilic fin surfaces on evaporator coil repel water and direct condensation down the surface into drain pan

Antimicrobial Condensate Drain Pan

- Composite pan, sloped to meet drainage requirements of ASHRAE 62.1
- Antimicrobial additive resists growth of mold and mildew on drain pan, which improves indoor air quality and reduces drain line blockage
- · Side or bottom drain connections
- Reversible to allow connection at back of unit

5 Variable Speed Outdoor Coil Fan Motor

- Variable speed (ECM) fan motor for energy efficient performance and guiet operation
- · Thermal overload protected
- Totally enclosed
- · Permanently lubricated ball bearings
- Shaft up
- · Wire basket mount

Outdoor Coil Fan

· PVC coated fan guard furnished

Required Selections

Cooling Capacity

Specify nominal cooling capacity

COOLING SYSTEM (Continued)

Options/Accessories

Factory or Field Installed

Drain Pan Overflow Switch

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

Field Installed

Condensate Drain Trap

Constructed of PVC or copper

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

6 Construction

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

Airflow Choice

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

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

Duct Flanges

Provided for horizontal duct attachment

Power/Gas Entry

• Electrical and gas lines can be 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 1,680 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

Hinged Access Panels

- Tool-less access
- Economizer/Filter sections
- · Compressor/Controls sections
- · Panel seals and quarter-turn latching handles provide a tight air and water seal

NOTE - Optional Economizers, Power Exhaust, Outdoor Air Dampers and Barometric Relief Dampers include a filler panel for proper cabinet fit.

Required Selections

Airflow Configuration

· Specify horizontal or downflow

Options/Accessories

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

Factory or Field Installed



8 Combination Coil/Hail Guards

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

CABINET (continued)

Options/Accessories

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

Motor

- Variable-speed ECM direct drive motor
- Overload protected, equipped with ball bearings

9 Supply Air Blower

- · Forward curved blades
- Double inlet
- · Blower wheel statically and dynamically balanced
- Ball bearings
- Blower assembly slides out of unit for servicing

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

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

Phase/Voltage Detection (3 Phase models only)

- Monitors power supply to ensure 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 ensure 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

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

INDOOR AIR QUALITY



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 or 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 Lamps



- Germicidal lamps emit ultra-violet (UV-C) energy, which has been proven to be effective in reducing microbes such as viruses, bacteria, yeasts, and molds
- 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
- These 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

LENNOX® CORE CONTROL SYSTEM



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 has 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 13

OPTIONS / ACCESSORIES

ECONOMIZER



- 12 Economizer operation is set and controlled by the Lennox® CORE Unit Controller
 - · Simple plug-in connections from economizer to unit controller 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 Options/Accessories table.

Factory or Field Installed

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
- Combination Outdoor Air Hood is furnished
- · Factory installed Economizer can be ordered with three exhaust options:
 - · Barometric Relief Dampers
 - Power Exhaust Fan

NOTE - See Power Exhaust Fan section for additional requirements.

- No Exhaust
- Field installed Economizer includes Barometric Relief Dampers with Combination Hood
- Barometric Relief Dampers allow relief of excess air
- Dampers prevent blow back and outdoor air infiltration during off cycle
- · Bird screen furnished

NOTE - Barometric Relief Dampers are required when Economizer is factory installed with factory installed Power Exhaust Fan option. See Power Exhaust Fan section and Options/Accessories table.

- Demand Control Ventilation (DCV) ready using optional CO₂ sensors
- · Horizontal Barometric Dampers are required for horizontal Economizer applications and must be ordered separately
- Linked damper action
- High torque 24-volt fully-modulating spring return damper motor
- · Return air and outdoor air dampers
- Plug-in connections to unit

OPTIONS / ACCESSORIES

ECONOMIZER (continued)

Factory or Field Installed (continued)

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.

Differential Sensible Control

- Factory setting
- Uses outdoor air and return air sensors that are furnished with the unit
- The Lennox® CORE Unit Controller compares outdoor air and return air setpoints and activates the economizer when the outdoor air temperature 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) to determine whether outside air is suitable for free cooling on all units connected to the control system

NOTE - Sensor must be field provided.

NOTE - Global control with enthalpy is not approved for Title 24 applications.

Single Enthalpy Temperature 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 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
- References a velocity sensor located in the rooftop unit outdoor air section
- Lennox® CORE Unit Controller 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
- Using differential pressure information between the outdoor air and the building air, the Lennox® CORE Unit Controller changes the economizer position to help maintain a constant building pressure

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

Horizontal Barometric Relief Dampers

- For use when unit is configured for horizontal applications with an economizer
- · Allows relief of excess air
- Blade type dampers prevent blow back and outdoor air infiltration during off cycle
- Field installed in return air duct
- · Outdoor air hood with filter bracket included
- · Exhaust hood with bird screen furnished
- · Requires Horizontal Economizer Conversion Kit

Horizontal Economizer Conversion Kit

 Insulated panel covers the bottom return air opening on the unit base to convert downflow economizer to horizontal air flow

OPTIONS / ACCESSORIES

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 16 in, diameter
- · Four blades
- One 1/3 HP motor

NOTE - If Power Exhaust is <u>field</u> installed with a <u>factory</u> installed Economizer, the Economizer must be ordered with No Exhaust option. Barometric Relief Dampers must also be ordered separately for field installation.

NOTE - If Power Exhaust is factory installed with a factory installed Economizer, Barometric Relief Dampers must also be ordered separately for field installation.

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

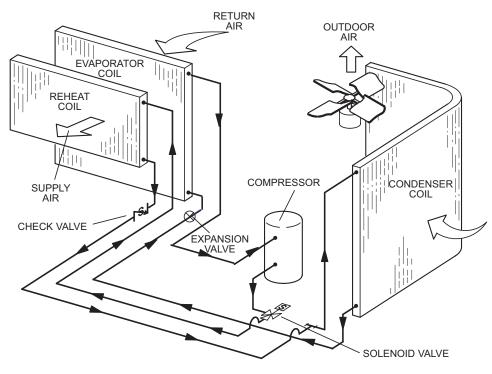
- Reheat operation will initiate on a dehumidification demand and does not require a cooling demand
- Unit will operate in the dehumidification mode until the relative humidity of the conditioned space is below the setpoint
- Reheat coil is sized to provide 68°F to 75°F supply air during reheat operation
- 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
- Cooled and dehumidified air from the evaporator is reheated as it passes through the reheat coil
- 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 1st stage cooling demand occur, the system will operate in the full cooling mode at first stage indoor air flow
- If a 2nd stages cooling demand occurs along with a dehumidification demand, the system operates in full cooling mode at full cooling airflow until the 2nd stage cooling demand is satisfied
- Then the system will revert to the dehumidification mode if a dehumidification mode demand is present

TYPICAL DEHUMIDIFICATION SCHEMATIC



OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

CS8500 Commercial 7-Day Programmable Thermostat



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

CS7500 Commercial 7-Day Programmable Thermostat



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

CS3000 Commercial 5-2 Day Programmable Thermostat



- · Conventional Multi-Stage Thermostat
- Intuitive Display
- Push-Button Operation
- Up To 2 Heat / 2 Cool
- Built-In Temperature Sensor
- Remote Temperature Sensing
- · Up to 5-2 Day Scheduling
- · Smooth Setback Recovery
- · Heat/Cool Auto-changeover

Wired Temperature/Humidity Room Sensor (Non-Communicating)



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

OPTIONAL CONVENTIONAL TEMPERATURI	E CONTROL SYSTEMS	
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-5030 V	Vired Room Sensor	
Twisted pair 100% shielded communication cable, Red and Bla	ck 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
IIISUIALIOII - LOW SITIONE FVO, NEO, 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 Thermostat		'
CS3000 5-2 Day Thermostat		11Y05
Sensors/Accessories	Remote non-adjustable wall mount 10k averaging	47W37
	Thermostat wall mounting plate	X2659
Universal Thermostat Guard with Lock (clear)		
	Inside Dimensions (H x W x D) 5-7/8 x 8-3/8 x 3 in.	39P21
Temperature/Humidity Room Sensor		
A335MT13AE1 Wired Temperature/Humidity Room Sensor (No	on-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

SEQUENCE OF OPERATION

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

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

DIRECT DRIVE OPERATION

NOTE: Direct drive units feature ECM condenser fans that are staged to match the compressor's capacity. When the compressor is operating at first stage, the condenser fan is operating at low speed. The condenser fan switches to high speed when the compressor switches to second stage to match operation.

Modulating Outdoor Air Damper

Damper minimum positions #1 and 2 are adjusted during unit setup to provide minimum fresh air requirements at the indicated supply fan speeds per ASHRAE 62.1.

- Supply fan is off and the outdoor air damper is closed
- Supply fan is on low speed and the outdoor air damper is at minimum position 1
- Supply fan is on high speed and the outdoor air damper is at minimum position 2

COOLING

¹Unit Features an Economizer and Outdoor Air is Suitable

Thermostat or Zone Sensor Mode (Up to 3 stages Y1, Y2, Y3)

Y1 Demand:

Compressor is off, supply fan is on low speed, economizer modulates (minimum to maximum open position) to maintain 55°F supply air temperature (default unit controller setting)

After 5 minutes (default unit controller setting), supply fan switches to high speed. Economizer continues modulating with supply fan on high speed to maintain 55°F supply air temperature

Y2 Demand:

Compressor is off, supply fan is on high speed, and economizer modulates to maintain 55°F supply air temperature

Economizer opens to maximum. If economizer stays at maximum open for 3 minutes (default unit controller setting) compressor is energized and operates at first stage while supply fan stays on high 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 RTU via a network connection.

Y3 Demand:

Economizer is at maximum open and compressor operates at first stage. If economizer stays at maximum open for 3 minutes (default unit controller setting) compressor switches to second stage operation while supply fan stays on high speed

Unit <u>Does Not</u> Feature an Economizer (or Outdoor Air Is Not Suitable)

Thermostat or Zone Sensor (Up to 2 stages Y1, Y2)

Y1 Demand:

Compressor operates at first stage and supply fan operates at low speed

Y2 Demand:

Compressor operates at second stage and supply fan operates at high speed

SEQUENCE OF OPERATION

DIRECT DRIVE OPERATION (CONTINUED)

DEHUMIDIFICATION

(Economizer free cooling is locked out)

Unit Features the Humiditrol® Dehumidification option.

Dehumidification Demand (No demand for Y1, Y2)

Compressor operates at second stage, supply fan operates at low speed, and the reheat valve is energized

Y1 Demand:

Compressor operates at second stage, supply fan operates at low speed and the reheat valve is deenergized

Y2 Demand:

Compressor operates at second stage, supply fan operates at high speed, and the reheat valve is deenergized

HEATING

Thermostat or Zone Sensor (Up to 2 stages W1, W2)

W1 Demand:

Gas valve is open (stage 1 on units with 2 stage gas valve) and the supply fan operates at high speed

W2 Demand:

Gas valve is open (stage 2 on units with 2 stage gas valve) and the supply fan operates at high speed

Item		Order	Un	it Model Nun	mber	
item		Number	036	048	060	
COOLING SYSTEM						
Condensate Drain Trap	PVC	22H54	Х	Х	Х	
	Copper	76W27	Χ	X	Х	
Drain Pan Overflow Switch		21Z07	OX	OX	OX	
HEATING SYSTEM						
Gas Heat Input	Standard Two-Stage - 45/60 kBtuh Input	Factory	0	0	0	
	Medium Two-Stage - 75/100 kBtuh Input	Factory	0	0	0	
BLOWER - SUPPLY AIR						
Motors - Standard Static	Direct Drive ECM Blower - 0.50 HP	Factory	0			
(All voltages)	1 HP	Factory		0	0	
CABINET						
Burglar Bars		Y1037	Х	Х	Χ	
Combination Coil/Hail Guards		13T03	OX	OX	OX	
Corrosion Protection		Factory	0	0	0	
CONTROLS						
Blower Proving Switch		21Z10	OX	OX	OX	
Commercial Controls	LonTalk® Module	54W27	OX	OX	OX	
	Novar® LSE	Factory	0	0	0	
Dirty Filter Switch		53W66	OX	OX	OX	
Fresh Air Tempering		58W63	OX	OX	OX	
Smoke Detector - Supply or Ret	rurn (Power board and one sensor)	21Z11	OX	OX	OX	
Smoke Detector - Supply and Ret	turn (Power board and two sensors)	21Z12	OX	OX	OX	
ELECTRICAL						
Voltage (60 Hz)	208/230V - 1 phase	Factory	0	0	0	
	208/230V - 3 phase	Factory	0	0	0	
	460V - 3 phase	Factory	0	0	0	
HACR Circuit Breakers		Factory	0	0	0	
Short-Circuit Current Rating (SCCR) of 100kA (includes Voltage Detection)	Factory	0	0	0	
Disconnect Switch	80 amp	22A25	OX	OX	OX	
GFI Service Outlets	15 amp non-powered, field-wired (208/230V, 460V only)	74M70	OX	OX	OX	
	15 amp factory-wired and powered (208/230V, 460V)	Factory	0	0	0	
	² 20 amp non-powered, field-wired (208/230V, 460V)	67E01	Х	Х	Х	
	² 20 amp non-powered, field-wired (208/230V, 575V)	Factory	0	0	0	
Weatherproof Cover for GFI		10C89	Χ	X	Х	

¹ Disconnect Switch is furnished and factory installed with High SCCR option.

NOTE - Order 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

² Canada requires a minimum 20 amp circuit. Select 20 amp, non-powered, field wired GFI.

lée un		Order	Uni	t Model Num	ıber
Item		Number	036	048	060
ECONOMIZER					
High Performance Economizer With Outdoor Air Hood (Se (Approved for California Title 24 Building Standards / AMC		I)			
High Performance Economizer - Includes Barometric Relief Dampers and Combination Hood		20H48	OX	OX	OX
High Performance Economizer - No Exhaust Option		Factory	0	0	0
Economizer Accessories					
Horizontal Economizer Conversion Kit		17W45	Χ	Х	Χ
Economizer Controls (Not for Title 24)					
Differential Enthalpy	Order 2	21 Z 09	OX	OX	OX
Sensible Control	Sensor is Furnished	Factory	0	0	0
Outdoor Air CFM Control		13J76	Χ	Х	Х
Single Enthalpy		21Z09	OX	OX	OX
Global Control Se	ensor Field Provided	Factory	0	0	0
Building Pressure Control		13J77	Χ	X	Х
POWER EXHAUST FAN					
Standard Static NOTE - Factory or Field installed Power Exhaust Fan	208/230V-1 or 3ph	21Z13	OX	OX	OX
requires "Barometric Relief Dampers for Power Exhaust Kit (21Z21)" for field installation.	460V-3ph	21Z14	OX	OX	OX
BAROMETRIC RELIEF					
³ Barometric Relief Dampers for Power Exhaust Kit		21Z21	Х	Х	Х
⁴ Horizontal Barometric Relief Dampers With Outdoor Air and	Exhaust Hood	19F01	Χ	Х	Х
OUTDOOR AIR					
Outdoor Air Dampers With Outdoor Air Hood					
Motorized		15D17	ОХ	OX	OX
Manual		15D18	Х	Х	Х

Required when Economizer is factory installed with factory installed Power Exhaust Fan option.
 Required when Economizer is configured for horizontal airflow.

NOTE - Order 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	Order	Un	it Model Num	umber	
nem	Number	036	048	060	
HUMIDITROL® CONDENSER REHEAT OPTION					
Humiditrol Dehumidification Option	Factory	0	0	0	
INDOOR AIR QUALITY					
Air Filters					
Healthy Climate® High Efficiency Air Filters MERV 8	3 54W21	OX	OX	OX	
20 x 20 x 2 in. (Order 4 per unit) MERV 13	52W39	OX	OX	OX	
MERV 16	3 21U40	Х	Х	Х	
Replaceable Media Filter With Metal Mesh Frame 20 x 20 x 2 in (includes non-pleated filter media) (order 4 per unit)	. 44N60	Х	Х	Х	
Indoor Air Quality (CO ₂) Sensors					
Sensor - Wall-mount, off-white plastic cover with LCD display	77N39	Х	X	Х	
Sensor - Wall-mount, off-white plastic cover, no display	23V86	X	Х	Х	
Sensor - Black plastic case, LCD display, rated for plenum mounting	87N52	X	X	Х	
Sensor - Black plastic case, no display, rated for plenum mounting	23V87	X	X	Х	
CO₂ Sensor Duct Mounting Kit - for downflow applications	23Y47	X	X	Х	
Aspiration Box - for duct mounting non-plenum rated CO ₂ sensors (77N39)	90N43	Х	X	Х	
Needlepoint Bipolar Ionization (NPBI)					
Needlepoint Bipolar Ionization (NPBI) Kit	22U14	X	X	Х	
UVC Germicidal Lamps					
⁷ Healthy Climate [®] UVC Light Kit (110/230v-1ph)	21A92	X	X	Х	
Step-Down Transformer 460V primary, 230V secondary	/ 10H20	Χ	X	X	
ROOF CURBS					
Hybrid Roof Curbs, Downflow					
8 in. height	11F50	Х	Х	Х	
14 in. height	11F51	Х	Х	Х	
18 in. height	11F52	Х	Х	Х	
24 in. height	11F53	Х	Х	Х	
Adjustable Pitched Curb					
14 in. height	43W27	Х	Х	Х	
Transition Curb					
Matches Enlight 036-072 Units to existing L Series® Curbs	31B05	Х	Х	Х	
CEILING DIFFUSERS					
Step-Down - Order one RTD9-65S	3 13K60	Х	Х	Х	
Flush - Order one FD9-65S	13K55	Х	Х	Х	
Transitions (Supply and Return) - Order one T1TRAN10AN	17W53	Х	Х	X	

⁵ Lamps operate on 110-230V single-phase power supply. Step-down transformer may be ordered separately for 460V units. Alternately, 110V power supply may be used to directly power the UVC ballast(s).

NOTE - Order 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

SPECIFIC	ATIONS										
Model			LGT036H5E	LGT048H5E	LGT060H5E						
Nominal Tonr	nage		3	4	5						
Efficiency Typ	ре		High	High	High						
Blower Type			MSAV® ECM Direct Drive	MSAV® ECM Direct Drive	MSAV® ECM Direct Drive						
Cooling	Gross	Cooling Capacity (Btuh)	36,600	50,100	61,600						
Performance	¹ Ne	t Cooling Capacity (Btuh)	36,000	49,000	60,000						
	¹ AHRI Rate	d Air Flow (cfm-high/low)	1200/800	1600/1200	1800/1350						
		¹ SEER2 (Btuh/Watt)	17.5	17.3	16.4						
		¹ EER2 (Btuh/Watt)	13.5	13.0	12.5						
		Total Unit Power (kW)	2.7	3.8	4.6						
Sound Rating	Number	dBA	75	75	82						
Refrigerant		Refrigerant Type	R-454B	R-454B	R-454B						
Charge		Without Reheat Option	5 lbs. 11 oz.	5 lbs. 4 oz.	4 lbs. 13 oz.						
		With Reheat Option	5 lbs. 13 oz.	5 lbs. 10 oz.	5 lbs. 2 oz.						
Gas Heat Ava	ilable										
Compressor	Type (Number)			Two-Stage Scroll (1)							
Outdoor Coil		Net face area - ft.2	17.80	17.80	17.80						
		Rows	1	1	1						
		Fins - in.	20	20	20						
Outdoor Coil	Mot	or HP (number and type)	1/3 (1 ECM)	1/3 (1 ECM)	1/3 (1 ECM)						
Fan		Rpm	550-830	765-1010	830-1030						
		Watts	65-175	130-300	170-350						
		Diameter (Number) - in.	(1) 24	(1) 24	(1) 24						
		Blades	3	3	3						
		Total air volume - cfm	2400 - 3795	2700 - 4100	3200 - 4700						
Indoor		Net face area - ft.2	8.65	8.65	8.65						
Coil		Rows	1	1	1						
		Fins - in.	20	20	20						
	Condens	sate drain size (NPT) - in.	(1) 1	(1) 1	(1) 1						
		Expansion device type	Balanced Port Thermo	static Expansion Valve,re	movable power element						
Indoor	Standard	Blower type		Direct Drive ECM							
Blower	Static (All Voltages)	Blade type		Forward Curved							
	(All Voltages)	Nominal motor HP	0.50	1	1						
	Wheel (Numl	oer) diameter x width - in.	(1) 10 X 10	(1) 11 X 10	(1) 11 X 10						
Filters		Туре	e MERV 4, Disposable								
		Number and size - in.		(4) 20 x 20 x 2							
Line voltage	data (Volts-Phase-Hz)		208/230-1-60 208/230-3-60 460-3-60 575-3-60								

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

^{1 1}AHRI Certified to AHRI Standard 210/240: 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

SPECIFICATIONS			GAS HEAT							
Heat Input Type		Standard (2 Stage)	Medium (2 Stage)							
Input Btuh	1st Stage	45,000	75,000							
	2nd Stage	60,000	100,000							
Output Btuh	1st Stage	37,000	62,000							
	2nd Stage	48,000	80,000							
Temperature Rise Range	1st Stage	15 - 45	25 - 55							
- °F	2nd Stage	20 - 50	30 - 60							
Minimum air volume - cfm		900	1250							
¹ AFUE (Single Phase)		81%	81%							
² Thermal Efficiency (Three Phase	se)	80%	80%							
Gas Supply Connections		1/2 i	n. NPT							
Recommended Gas Supply Press	sure - Nat.	7 in. w.g. / 11 in. w.g.								
Gas Supply Pressure Range	Min./Max.	4.5 - 10).5 in. w.g.							

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

HIGH ALTITUDE DERATE

NOTE - Units may be installed at altitudes up to 4500 ft. above sea level without any modification. No modifications are required.

At altitudes above 2000 ft. the furnace will naturally derate approximately 10%. See table below.

Heat Input Type	Altitude Feet	Input Rate (Btuh)
Standard (2 stage)	0 - 4500	41,000 / 54,000
Medium (2 stage)	0 - 4500	68,000 / 90,000

² Thermal Efficiency at full input.

RATINGS

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

3 TON - LGT036H5 (PART LOAD)

								Ou	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	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	Cap.	Input	Dry Bulb		Cap.	Cap. Input		Dry Bulb			Input	Dry Bulb			
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
	640	25.8	1.11	0.63	0.75	0.91	24.8	1.28	0.64	0.77	0.93	23.6	1.47	0.65	0.79	0.97	22.4	1.68	0.66	0.82	1
63°F	800	27.4	1.1	0.67	0.84	1	26.3	1.27	0.68	0.87	1	25.1	1.46	0.7	0.9	1	23.8	1.66	0.72	0.93	1
	960	28.6	1.09	0.72	0.94	1	27.5	1.26	0.74	0.97	1	26.3	1.45	0.77	1	1	25	1.65	8.0	1	1
	640	27.6	1.09	0.5	0.6	0.71	26.5	1.27	0.5	0.61	0.73	25.4	1.45	0.51	0.62	0.75	24.1	1.66	0.52	0.63	0.77
67°F	800	29.2	1.08	0.52	0.64	0.79	28	1.25	0.53	0.66	0.82	26.8	1.44	0.54	0.67	0.85	25.4	1.65	0.55	0.69	0.88
	960	30.4	1.07	0.55	0.69	0.89	29.1	1.25	0.56	0.71	0.92	27.8	1.43	0.57	0.73	0.95	26.3	1.64	0.58	0.76	0.99
	640	29.5	1.08	0.39	0.48	0.58	28.4	1.25	0.39	0.49	0.58	27.2	1.44	0.39	0.49	0.59	25.8	1.64	0.39	0.5	0.61
71°F	800	31.3	1.07	0.4	0.51	0.62	30	1.24	0.4	0.51	0.63	28.7	1.43	0.4	0.52	0.64	27.2	1.63	0.4	0.53	0.66
	960	32.4	1.06	0.41	0.54	0.67	31.1	1.23	0.41	0.54	0.68	29.7	1.42	0.41	0.56	0.7	28.2	1.63	0.42	0.57	0.73

3 TON - LGT036H5 (FULL LOAD)

F								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	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	Τ)
perature		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	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
	960	34.6	2.1	0.68	0.82	0.98	33	2.37	0.69	0.84	1	31.3	2.66	0.7	0.87	1	29.4	3.02	0.72	0.91	1
63°F	1200	36.6	2.11	0.73	0.92	1	34.8	2.38	0.75	0.95	1	33.1	2.67	0.77	0.99	1	31.2	3.02	8.0	1	1
	1440	38.3	2.13	0.8	1	1	36.7	2.39	0.82	1	1	35	2.69	0.85	1	1	33.2	3.04	0.9	1	1
	960	37	2.12	0.53	0.65	0.78	35.3	2.38	0.54	0.66	0.8	33.4	2.68	0.55	0.68	0.83	31.5	3.02	0.56	0.7	0.86
67°F	1200	38.9	2.13	0.56	0.7	0.87	37	2.39	0.57	0.72	0.91	35	2.69	0.58	0.74	0.94	32.9	3.04	0.6	0.77	0.98
	1440	40.2	2.14	0.6	0.77	0.97	38.4	2.41	0.61	0.79	1	36.2	2.7	0.62	0.83	1	34	3.04	0.64	0.86	1
	960	39.6	2.14	0.41	0.52	0.62	37.8	2.4	0.41	0.52	0.64	35.8	2.7	0.41	0.53	0.65	33.7	3.04	0.42	0.54	0.67
71°F	1200	41.6	2.16	0.42	0.55	0.68	39.6	2.42	0.42	0.56	0.7	37.5	2.71	0.43	0.57	0.72	35.2	3.06	0.43	0.59	0.74
	1440	43	2.17	0.43	0.58	0.74	40.9	2.43	0.44	0.6	0.76	38.6	2.73	0.44	0.61	0.8	36.2	3.07	0.45	0.63	0.84

4 TON - LGT048H5 (PART LOAD)

								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 Tem-	Air Volume	Total Cool	Comp. Motor		ible To atio (S		Total Cool	Comp. Motor		ible To atio (S/		Total Cool	Comp. Motor		ible To atio (S/		Total Cool	Comp. Motor		ible To atio (S/			
perature		Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	Input		Dry 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		
	850	35.6	1.41	0.77	0.88	0.96	34.1	1.66	0.78	0.89	0.97	32.6	1.95	0.79	0.9	0.99	30.9	2.27	0.81	0.92	1		
63°F	1065	37.8	1.39	0.82	0.93	1	36.2	1.64	0.83	0.94	1	34.6	1.93	0.85	0.95	1	32.7	2.26	0.86	0.97	1		
	1280	39.5	1.38	0.86	0.97	1	37.8	1.63	0.87	0.99	1	36.2	1.92	0.89	1	1	34.5	2.24	0.9	1	1		
	850	38	1.39	0.61	0.74	0.85	36.5	1.64	0.62	0.75	0.86	34.9	1.93	0.62	0.76	0.88	33.2	2.25	0.63	0.77	0.89		
67°F	1065	40.2	1.37	0.64	0.79	0.9	38.6	1.62	0.65	0.8	0.92	36.9	1.91	0.66	0.82	0.93	35	2.24	0.67	0.84	0.95		
	1280	41.8	1.35	0.67	0.84	0.95	40.1	1.61	0.68	0.86	0.96	38.3	1.9	0.7	0.87	0.98	36.3	2.23	0.71	0.89	1		
	850	40.7	1.37	0.48	0.59	0.7	39.1	1.62	0.48	0.6	0.71	37.5	1.9	0.48	0.6	0.73	35.6	2.23	0.48	0.61	0.74		
71°F	1065	43	1.34	0.49	0.62	0.76	41.3	1.59	0.49	0.63	0.77	39.5	1.89	0.49	0.64	0.79	37.5	2.22	0.49	0.65	0.81		
	1280	44.6	1.32	0.5	0.66	0.82	42.9	1.58	0.5	0.67	0.84	40.9	1.87	0.51	0.68	0.85	38.9	2.2	0.51	0.7	0.87		

4 TON - LGT048H5 (FULL LOAD)

		(,				4-1 A	: T		F			-:-							
Entering										ur iem	peratu	re Enter	ing Outo		OII							
	Total		- 1	85°F					95°F				1	05°F			115°F					
Wet	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	
Bulb	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)	
Tem- perature		Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	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	
	1280	46.9	2.72	0.68	0.83	0.98	44.7	3.06	0.7	0.85	1	42.4	3.45	0.71	0.88	1	39.9	3.91	0.73	0.91	1	
63°F	1600	49.4	2.74	0.74	0.92	1	47.2	3.08	0.76	0.95	1	44.7	3.47	0.78	0.99	1	42.3	3.92	0.81	1	1	
	1920	51.7	2.75	0.8	1	1	49.5	3.09	0.83	1	1	47.2	3.48	0.86	1	1	44.7	3.93	0.89	1	1	
	1280	49.9	2.74	0.54	0.66	0.79	47.6	3.08	0.55	0.67	0.81	45.1	3.47	0.56	0.69	0.84	42.5	3.92	0.57	0.7	0.87	
67°F	1600	52.4	2.76	0.57	0.71	0.88	49.9	3.09	0.58	0.73	0.91	47.1	3.48	0.59	0.75	0.95	44.4	3.92	0.61	0.78	0.99	
	1920	54.1	2.77	0.6	0.78	0.98	51.5	3.11	0.62	0.8	1	48.7	3.49	0.63	0.83	1	45.7	3.93	0.65	0.87	1	
	1280	53.2	2.76	0.41	0.52	0.63	50.8	3.1	0.41	0.53	0.65	48.2	3.49	0.42	0.54	0.66	45.4	3.93	0.42	0.55	0.68	
71°F	1600	55.8	2.78	0.42	0.56	0.69	53.2	3.12	0.43	0.57	0.71	50.2	3.5	0.43	0.58	0.73	47.2	3.93	0.44	0.59	0.75	
	1920	57.5	2.79	0.44	0.59	0.75	54.7	3.13	0.44	0.61	0.78	51.7	3.5	0.45	0.62	0.81	48.5	3.94	0.46	0.64	0.84	

RATINGS

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

5 TON - LGT060H5 (PART LOAD)

								Out	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering Wet	Total		(65°F					75°F					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	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	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
	1070	47	1.78	0.64	0.77	0.93	45	2.07	0.65	0.79	0.96	42.7	2.38	0.67	0.82	0.99	40.1	2.74	0.68	0.85	1
63°F	1335	49.8	1.77	0.69	0.86	1	47.6	2.05	0.7	0.89	1	45.1	2.38	0.72	0.93	1	42.5	2.73	0.75	0.97	1
	1600	52	1.76	0.74	0.96	1	49.9	2.05	0.76	0.99	1	47.4	2.37	0.79	1	1	45	2.73	0.83	1	1
	1070	50.3	1.77	0.51	0.62	0.73	48.2	2.05	0.52	0.63	0.75	45.7	2.37	0.52	0.64	0.77	43	2.73	0.53	0.66	0.8
67°F	1335	53.1	1.75	0.54	0.66	0.81	50.8	2.04	0.55	0.68	0.84	48.1	2.37	0.55	0.69	0.88	45.1	2.73	0.57	0.71	0.92
	1600	55.1	1.74	0.57	0.71	0.91	52.7	2.03	0.58	0.73	0.94	49.8	2.36	0.59	0.76	0.98	46.8	2.72	0.6	0.8	1
	1070	53.9	1.75	0.4	0.49	0.59	51.6	2.04	0.4	0.5	0.6	49	2.36	0.4	0.51	0.62	46.1	2.72	0.4	0.52	0.63
71°F	1335	56.8	1.73	0.4	0.52	0.64	54.3	2.03	0.41	0.53	0.65	51.4	2.35	0.41	0.54	0.67	48.3	2.72	0.42	0.55	0.69
	1600	58.8	1.72	0.42	0.55	0.69	56.1	2.02	0.42	0.56	0.71	53.1	2.35	0.42	0.58	0.73	49.9	2.71	0.43	0.59	0.76

5 TON - LGT060H5 (FULL LOAD)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		- 1	35°F					95°F				1	05°F					115°F		
Wet Bulb	Air	Total	Comp.		ble 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		atio (S/		Cool	Motor		atio (S/	
perature		Сар.	Input		ry Bul		Cap.	Input		ry Bul		Сар.	Input		ry Bul		Сар.	Input		ry Bull	
	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	59.2	3.43	0.7	0.85	1	56.7	3.82	0.71	0.87	1	54	4.29	0.72	0.9	1	51	4.83	0.74	0.93	1
63°F	2000	62.5	3.46	0.75	0.95	1	59.6	3.86	0.78	0.98	1	56.9	4.32	0.8	1	1	54.1	4.86	0.83	1	1
	2400	65.5	3.5	0.83	1	1	62.9	3.9	0.85	1	1	60.1	4.37	0.88	1	1	57.1	4.91	0.92	1	1
	1600	63	3.47	0.55	0.67	0.81	60.2	3.87	0.56	0.69	0.83	57.3	4.33	0.57	0.7	0.86	54	4.86	0.58	0.72	0.89
67°F	2000	66	3.51	0.58	0.73	0.91	63	3.9	0.59	0.75	0.94	59.8	4.36	0.6	0.77	0.97	56.4	4.9	0.62	0.8	1
	2400	68.1	3.54	0.62	0.8	1	65.1	3.93	0.63	0.82	1	61.7	4.39	0.65	0.85	1	58.1	4.92	0.66	0.89	1
	1600	67.3	3.53	0.42	0.53	0.65	64.2	3.92	0.42	0.54	0.66	61	4.38	0.42	0.55	0.68	57.6	4.92	0.43	0.56	0.7
71°F	2000	70.4	3.57	0.43	0.57	0.71	67	3.96	0.43	0.58	0.72	63.6	4.42	0.44	0.59	0.74	59.9	4.95	0.44	0.61	0.77
	2400	72.4	3.6	0.45	0.61	0.77	69	3.99	0.45	0.62	0.8	65.3	4.45	0.46	0.64	0.83	61.6	4.97	0.46	0.65	0.87

HUMIDITROL® DEHUMIDIFICATION SYSTEM RATINGS

3 TON - LGT036H5 WITH HUMIDITROL® OPERATING

Entering								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Wet	Total			65°F					75°F				1	35°F					95°F		
	Air Vol-	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Bulb Tem-	ume	Cool	Motor		atio (S/		Cool	Motor		atio (S/		Cool	Motor		atio (S/		Cool	Motor		atio (S/	
perature		Cap.	Input		ry Bul		Cap.	Input		ry Bul	_	Cap.	Input		ry Bul	_	Cap.	Input		ry 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
	640	22.2	1.58	0.40	0.54	0.69	18.0	1.70	0.31	0.49	0.67	13.8	1.86	0.17	0.41	0.64	9.7	2.07	-0.08	0.27	0.60
63°F	800	23.9	1.62	0.43	0.60	0.77	19.5	1.72	0.34	0.57	0.77	14.1	1.90	0.19	0.49	0.77	9.3	2.10	-0.11	0.34	0.78
	950	24.9	1.66	0.47	0.67	0.86	19.4	1.78	0.38	0.63	0.88	13.8	1.93	0.21	0.57	0.91	8.5	2.13	-0.15	0.45	0.97
	640	25.8	1.62	0.28	0.40	0.52	21.5	1.75	0.18	0.33	0.48	17.3	1.90	0.04	0.23	0.41	13.2	2.11	-0.19	0.07	0.31
67°F	800	27.9	1.67	0.29	0.43	0.58	22.9	1.79	0.18	0.36	0.54	17.9	1.95	0.02	0.26	0.49	13.1	2.14	-0.25	0.07	0.39
	950	29.3	1.70	0.31	0.48	0.64	23.5	1.83	0.19	0.40	0.61	17.9	1.98	0.01	0.29	0.56	12.5	2.17	-0.32	0.08	0.48
	640	29.5	1.67	0.17	0.28	0.40	25.3	1.79	0.08	0.21	0.34	21.0	1.95	-0.06	0.10	0.26	16.9	2.15	-0.25	-0.05	0.14
71°F	800	32.0	1.72	0.18	0.31	0.44	26.9	1.84	0.07	0.22	0.38	21.9	1.99	-0.09	0.10	0.29	17.1	2.18	-0.32	-0.08	0.17
	950	33.2	1.77	0.18	0.32	0.47	27.8	1.87	0.06	0.24	0.42	22.3	2.01	-0.11	0.12	0.34	16.7	2.21	-0.40	-0.10	0.19

4 TON - LGT048H5 WITH HUMIDITROL® OPERATING

Entering								Ou	tdoor A	ir Tem	peratu	re Enter	ing Out	loor C	oil						
Wet	Total			65°F					75°F					35°F					95°F		
	Air Vol-	Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To		Total	Comp.		ible To	
Bulb Tem-	ume	Cool	Motor	Ra	atio (S/	(T)	Cool	Motor		atio (S/		Cool	Motor	Ra	atio (S/	T)	Cool	Motor	R	atio (S/	Τ)
		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Сар.	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
	960	26.1	2.11	0.41	0.59	0.78	20.1	2.27	0.29	0.54	0.78	14.0	2.47	0.07	0.43	0.78	8.3	2.71	-0.43	0.19	0.78
63°F	1200	27.8	2.16	0.46	0.68	0.90	20.9	2.32	0.34	0.64	0.93	13.9	2.52	0.10	0.56	1.00	6.9	2.79	-0.59	0.33	1.00
	1440	28.7	2.20	0.51	0.77	1.00	21.0	2.36	0.40	0.76	1.00	12.9	2.57	0.15	0.73	1.00	5.4	2.81	-0.85	0.65	1.00
	960	31.0	2.17	0.25	0.41	0.57	24.9	2.33	0.12	0.32	0.52	19.0	2.53	-0.09	0.18	0.44	12.9	2.80	-0.49	-0.11	0.29
67°F	1200	33.0	2.22	0.27	0.46	0.65	26.0	2.38	0.13	0.37	0.61	18.9	2.58	-0.11	0.22	0.55	12.0	2.83	-0.63	-0.09	0.43
	1440	34.2	2.26	0.30	0.52	0.73	26.3	2.42	0.14	0.43	0.72	18.4	2.62	-0.14	0.28	0.69	10.5	2.87	-0.83	-0.09	0.62
	960	36.1	2.22	0.13	0.27	0.41	30.0	2.39	0.00	0.17	0.34	23.9	2.59	-0.19	0.02	0.23	17.9	2.84	-0.52	-0.22	0.06
71°F	1200	38.5	2.28	0.13	0.29	0.46	31.3	2.45	-0.01	0.19	0.39	24.2	2.65	-0.24	0.02	0.28	17.2	2.90	-0.65	-0.28	0.09
	1440	39.9	2.31	0.13	0.32	0.51	31.9	2.49	-0.02	0.21	0.45	23.9	2.69	-0.29	0.02	0.34	16.0	2.94	-0.82	-0.34	0.14

5 TON - LGT060H5 WITH HUMIDITROL® OPERATING

Entering								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	door C	oil						
Wet	Total			65°F					75°F				1	85°F					95°F		
	Air Vol-	Total	Comp.	Sensi	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sensi	ble To	Total	Total	Comp.	Sens	ible To	Total
Bulb	ume	Cool	Motor	Ra	atio (S	/T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	atio (S/	/T)	Cool	Motor	R	atio (S/	T)
Tem-		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Сар.	Input		Dry 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
	1080	31.8	2.86	0.34	0.52	0.70	25.5	3.04	0.23	0.45	0.67	19.2	3.28	0.05	0.34	0.63	12.9	3.60	-0.32	0.13	0.57
63°F	1350	34.0	2.95	0.39	0.59	0.80	26.6	3.13	0.27	0.54	0.80	19.0	3.37	0.06	0.44	0.80	11.4	3.70	-0.42	0.21	0.81
	1620	35.2	3.02	0.43	0.67	0.91	26.8	3.20	0.31	0.63	0.93	18.2	3.44	0.09	0.56	0.98	9.7	3.77	-0.56	0.35	1.00
	1080	37.6	2.95	0.20	0.35	0.50	31.1	3.13	0.08	0.26	0.44	24.6	3.37	-0.10	0.13	0.36	18.2	3.71	-0.41	-0.09	0.22
67°F	1350	40.2	3.05	0.22	0.39	0.57	32.6	3.23	0.09	0.31	0.52	24.9	3.47	-0.13	0.16	0.45	17.3	3.80	-0.52	-0.11	0.31
	1620	41.7	3.13	0.24	0.44	0.64	33.1	3.31	0.09	0.35	0.61	24.4	3.55	-0.15	0.20	0.55	15.7	3.87	-0.66	-0.11	0.43
	1080	43.6	3.05	0.09	0.22	0.35	37.0	3.23	-0.02	0.13	0.28	30.4	3.48	-0.19	-0.01	0.18	23.8	3.81	-0.45	-0.21	0.03
71°F	1350	46.6	3.16	0.09	0.24	0.39	38.9	3.34	-0.04	0.14	0.32	31.1	3.59	-0.24	-0.01	0.22	23.3	3.91	-0.57	-0.26	0.04
	1620	48.6	3.25	0.09	0.27	0.44	39.8	3.43	-0.06	0.16	0.37	30.9	3.67	-0.29	-0.01	0.26	22.1	3.99	-0.71	-0.32	0.07

BLOWER DATA

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

FOR ALL UNITS ADD:

1 - Any factory installed options air resistance (heat section, economizer, etc.).

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

See page 27 for wet coil and options/accessory air resistance data.

Minimum Air Volume Required For Different Gas Heat Sizes: Standard Heat - 900 cfm; Medium Heat - 1250 cfm.

DOWNFLOW	MO																									
External											Per	Percentage	le of To	of Total Motor Torque	or Tor	anb										
Static		20%		3	30%		,	40%		2	20%			%09		%02	۰,0		80%			%06			100%	
Press. in. w.g.	Cfm	Watts	RPM C	Cfm W	Watts F	RPM	Cfm V	Watts F	RPM C	Cfm W	Watts R	RPM C	Cfm Wa	Watts RPM	M Cfm	n Watts	s RPM	1 Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	811	20		994			1177	114	_	319 1			1461 19	194 626	6 1564	14 236	9 9	1667	7 278		1804	349	753	1878	396	783
0.1	716	47	\vdash	906		\vdash	1095	115	599 1	1243 1	158 6	642 13	1391 20	200 685	5 1500	0 243	718	1608	3 286	751	1753	361	798	1833	409	824
0.2	631	49	570 8	827		618	1023	121 (665 1	1176 1		704 13	1329 20	209 742	2 1442	.2 254	1772	1555	5 299	802	1708	375	843	1794	425	865
0.3	556	54	644 7	758	92 (687	096	130 7	729 1	1118	\vdash	764 12	1275 22	222 799	9 1392	268	825	1509	314	851	1668	392	888	1759	443	206
0.4	489	62	715 6	, 969	102 7	753	903	142 7	791 10	1065 1	189 8	822 12	1227 23	236 853	3 1347	.7 284	1 877	1467	7 331	006	1632	410	932	1726	462	949
0.5	1 1	:	-	:	:	:	851	155 8	851 10	1017	\vdash	879 1	1183 2	253 906	6 1306	16 301	927	1429	349	948	1597	430	926	1693	481	991
9.0	1 1	1	:	:	:	;	804	170 8	606	973 2	220 9	933 17	1141 20	269 957	7 1267	318	976	1392	2 367	994	1562	449	1019	1660	501	1032
0.7	1	:	:	;	:	:	759	184	964 9	930 2	\vdash	985 1	1101 28	286 1006	1228	336	1023	3 1355	5 385	1039	1527	467	1062	1624	519	1074
0.8	1 1	1	:	:	:	:	716	199 1	1017 8	889	251 10	1036 10	1061 30	302 1054	1189	9 352	1069	1317	7 402	1083	1489	484	1103	1585	535	1115
6.0	1	:	-	:		:	671	211 1	1067 8	845 2		1083 10	1019 3	316 1099	99 1148	998 8	1112	1276	3 416	1125	1447	499	1144	1540	549	1156
1.0	1 1	1 1	-	1	;	;	625	222	1114 8	800	275 11	1128 9	974 3;	327 1142	1102	2 378	1154	1230	0 428	1165	1400	510	1183	1489	559	1196
1.1	1 1	:	:	:	:	:	929	230 1	1158 7	751 2	283 17	1170 9	925 33	336 1182	1052	2 387	1193	3 1179	9 437	1203	1345	518	1221	1430	999	1235
1.2	1 1	1 1	1	:	:	:	521	234 1	1199 6	695 2	288 12	1210 8	869	341 1220	20 995	5 391	1230	1121	1 441	1240	1283	521	1258	1361	292	1273
1.3	1	:	!	:	-	:	:	-	!	:	:	8	806 34	340 1255	55 930	390	1265	1054	4 440	1274	1210	519	1293	1281	562	1311
4.1	1 1	:		:	;	:	:	:	-	1	:	7	734 3;	335 1288	38 856	384	1297	7 977	433	1306	1126	510	1326	1188	552	1347
HORIZONTAI	ITAL																									
ш											Per	Percentage	le of To	of Total Motor Torque	or Tor	anb										
		%02		က	30%			40%		2	%09)9	%09		%0 2	۰,0		%08			%06			100%	
Press. in. w.g.	Cfm	Watts	RPM C	Cfm W	Watts	RPM	Cfm V	Watts	RPM	Cfm W	Watts R	RPM	Cfm Wa	Watts RPM	M Cfm	n Watts	S RPM	1 Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
	794	45	388	970	7 9/	454	1146	107	519 12	1281	149 5	575 14	1416 19	191 630	0 1522	2 110	678	1627	7 293	726	1715	351	768	1802	408	810
	209	44		895		Н	1080	111	577 13	1223 1	Н		1366 19	199 677	7 1477	7 251			303	764	1681	\vdash	804	1773	420	843
	630	46			82 [-	1019	117 (634 1	1169 1	-	679 13	1318 20	208 723	3 1435	5 262	. 763	1552	2 315	803	1648	375	841	1743	434	878
	556	51	_	\dashv	\dashv	646	961	\dashv	\dashv	_	\dashv	730 12	1273 2	219 769	\dashv	5 274	\dashv	1516		\dashv	1615		877	1714	448	912
	486	28				209	906		\dashv			\neg	_	\dashv	\rightarrow		_	\dashv			1582		914	1683	463	948
0.5	420	99	740 6	637	107	771	854	\dashv	802 10	1021	\dashv	831 1	1188 24	245 860	0 1317	7 301	890	1446	357	919	1549	418	951	1652	478	983
	1 1	1 1	-	:	:	:	804	159 8	856 9		\dashv		1147 2	259 905	5 1279		932		3 372	928	1514	432	989	1618	492	1019
	1 1	!	!	!	:	:	756	\dashv	\dashv	\dashv	\dashv	\dashv	\rightarrow	\dashv	\dashv	\dashv	\neg	\rightarrow		\dashv	\rightarrow		1026	1582	\dashv	1055
8.0	1 1	1 1		:	-	:	602	185 (962 8	888	236 9	978 10	1066 28	287 993	3 1201	1 344	1014	1336	3 400	1034	1440	460	1063	1544	519	1091
	1	-		:		:	663	197	1013 8	844 2	249 10	1025 10	1025 30	300 1036	36 1161	1 357	.	1296	5 413	1072	1399	472	1100	1502	530	1127
1.0		-		1	-	:	:	-		:	-	6		\dashv				-		$\overline{}$			1136	1456	\dashv	1163
1.1												6	938 3;	323 1119	9 1073	3 379	1133	1208	3 434	1146	1307	491	1172	1406	548	1198
1.2				:	:					-		8	-	332 1158	1026			1159	9 441	1182			1208	1351		1233
6.	! ! !	!	!	:	· -	:	:	-	-	:	-	8	\dashv	340 1197		\dashv	-			-	1198		1242	1290	\dashv	1268
1.4	:	:		:	:	:	:	:	:	:	:	7	790 3	344 1234	34 920	396	1242	1049	9 448	1250	1137	501	1276	1224	553	1302

BLOWER DATA

BLOWER TABLE INCLUDES RESISTANCE FOR BASE UNIT ONLY WITH DRY INDOOR COIL AND AIR FILTERS IN PLACE.

The promen rable inclodes resistance for base only only with	ן קטר	125	LODES		֚֚֚֚֚֚֚֡֝֝֝֝֝֝֝֟֝֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֓֡֓֓֡֓֡֓֡֓֜֓֡֓֡֓֡֓֡		בלכו	5						I DAT INDOOR COIL AND AIN FILIENS IN FLACE		2		į								
	UNITS	ADD:											2	Minimum Air Volume Required For Different Gas Heat Sizes:	Air Vc	Jume	Requir	ed Fo	r Diffe	ent Ga	S Hear	Sizes				
noT a 1 - Any fa 2 - Any fi	actory ir eld insta	nstalled alled ac	d option	1 - Any factory installed options air resistance (heat section, economizer, etc.).2 - Any field installed accessories air resistance (duct resistance, diffuser, etc.)	istanc ssistar	se (hea nce (du	t section	on, ecc istance	nomize , diffus	er, etc.	c. (;		: ഗ	Standard Heat - 900 cfm; Medium Heat - 1250 cfm	Heat -	900 c	fm; Mec	Fium H	eat - 1;	250 cfm						
က	3 27 for	wet co	il and o	See page 27 for wet coil and options/accessory air resistance data	ccess	ory air	resist	ance da	ata.																	
	MO-																									
s External											Per	centaç	ye of 1	Percentage of Total Motor Torque	tor Tol	rdue										
		50%		30	30%		,	40%		4)	20%		9	%09		20	%02		80%	%		%06			100%	
Press. in. w.g.	Cfm	Cfm Watts	RPM	Cfm Watts		RPM (Cfm Watts		RPM	Cfm W	Watts R	RPM	Cfm Watts		RPM Cfi	Cfm Watts	itts RPM		Cfm Watts	ts RPM		Cfm Watts RPM	RPM		Cfm Watts	RPM
0 5/E	1067	112	488	1325 19	196	573 1	1583	279 (657 1	1759	381 7	726 1	1934 4	482 79	794 2046		579 845	5 2157	57 676	968 9	3 2285	5 816	926	2358	925	686
1.0	984	97	537	1249 18	184 (616 1	513	270 (695	1697	376 7	760 1	1881 4	481 82	825 2002	_	584 873	3 2123	23 686	6 921	2273	3 838	978	2352	947	1008
Z.O	912	91	282	1183 18	180 (661 1	1453	. 268	735 1	1644	377 7	796 1	1835 4	486 8	856 1964	_	593 902	2 2093	93 700	0 947	7 2264	4 863	1001	2349	973	1030
8.0 3 t	851	92	989	1126 18	183	706 1	1400	273	775 1	1597	385 8	832 1	1794 4	497 88	889 1931	\vdash	607 932	2 2067	37 717	7 974	1 2256	5 891	1026	2348	1001	1053
0.7	797	100	. 289	1075 19	192	751 1	1353	283	815 1	1555	3 268	869 1.	1757	511 92	922 1901	_	625 962	2 2044	44 738	8 1002	2 2248	8 919	1051	2347	1031	1077
0.5 To	752	114	737	1032 20	206	796 1	1312	298	855 1	1518 4	413 8	905 1	1724 5	528 9	955 1873		644 993	3 2021	21 760	0 1030	0 2239	9 948	1078	2345	1061	1102
9.0 n l	712	132	787	994 22	224 8	842 1	1275	316	896 1	1484 4	432 6	942 1	1692	548 98	988 1845		666 1024	4 1998	98 783	3 1059	9 2228	8 977	1104			
2:0 Pag	678	155	836	960 2	246 8	886 1	1242	336	936 1	1452 4	452 8	979 1	1662	568 10	1021 1818		687 1055	55 1974	74 806	9801 9	8 2214	1004	1131	1	1	:
8.0 e 2	648	180	885	929 26	269	931 1	1210	358	976 1	1421 4	474 1	1016 1	1632	589 10	1055 179	1790 70	709 1086	1948	48 828	8 1117	7 2195	5 1028	1158			
6.0	621	207	933	900 28	294 9	974 1	1179	381 1	1015 1	1390 4	495 1	1051 10	1600 6	609 10	1087 1760		728 1117	7 1919	19 847	7 1146	6 2170	0 1049	1185			
1.0	296	235	981	872 37	319 1	1017 1	1148	403 1	1053 1	1357	516 1	1086 1	1566 6	628 11	1119 172	1725 74	746 1147	.7 1884	34 864	4 1174	4 2139	9 1066	1212			1 1
1.1					-	1	1115	424 1	1090 1	1322	534 1	1120 1	1528 6	643 11	1150 1686		760 1176	6 1844	44 876	5 1201	1 2100	0 1078	1238			
1.2					:	1	1080	443 1	1126 1	1283	549 1	1153 14	1485 6	655 11	1180 1641		770 1204	1797	97 884	4 1228	8 2052	2 1083	1264			
1.3						1	1040	458 1	1161 1	1238	561 1	1185 1	1436 6	663 12	1209 1589		775 1231	11 1742	42 886	6 1253	3 1993	3 1081	1288			
1.4)	966	469 1	1194 1	1189	567 13	1215 13	1381 6	665 12	1236 1530		773 1257	57 1678	78 881	1 1277	7 1923	3 1071	1311			
HORIZONTAL	NTAL																									
External											Per	Percentage	ye of 1	of Total Motor Torque	tor Tol	rdue										
Static		20%		30	30%			40%		٠,	20%		9	%09		20	%02	-	80%	%		%06			100%	
Press. in. w.g.	Cfm	Watts	RPM	Cfm Wa	Watts F	RPM (Cfm V	Watts F	RPM C	Cfm W	Watts R	RPM C	Cfm W	Watts RF	RPM Cfi	Cfm Watts	tts RPM	M Cfm	m Watts	ts RPM	/ Cfm	n Watts	RPM	Cfm	Watts	RPM
0	1087	111												478 8									975	-	925	1000
0.1	1021	104	283	1246 18	180 (618 1	1470	255 (699 1	1646	368 7	768 1	1821 4	480 83	837 1941	_	592 888	8 2061	31 704	4 938	3 2179	9 852	992	2255	926	1017
C	200	00,	00	0077		CLC	101	CLC	10.1	100	1	100	100	01		, ,		000	1	,	0.50		0,70		000	, 00,

External											Pe	rcenta	ge of	Percentage of Total Motor Torque	lotor 1	orque										
Static		20%			30%			40%			%09			%09			%02		80%	%		%06	%		100%	,o
Press. in. w.g.	Cfm	Watts	RPM	Cfm V	Watts	RPM	Cfm V	Watts	RPM	Cfm V	Natts	RPM	Cfm V	Watts R	RPM (Cfm W	Watts RI	RPM C	Cfm Watts		RPM Cf	Cfm Watts	ts RPM	M Cfm	์ Watts	s RPM
0	1087	111	493	1304	184	216	1520	257	. 599	1689	368	738	1857	478 8	810 1	1972	588 8	864 20	2087 698	_	918 21	2196 844	4 975	5 2283	3 925	1000
0.1	1021	104	537	1246	180	618	1470	255	669	1646	368	768	1821	480 8	837 1	1941	592 8	888 20	2061 704		938 21	2179 852	2 992	2 2255	5 926	1017
0.2	961	102	582	1193	181	. 859	1425	259	734	1607	373	799	1789	487 8	864 1	1914 (601 9	912 20	2039 714		960 21	2163 864	4 1012	2 2231	1 932	1034
0.3	906	106	628	1145	186	669	1384	266	. 692	1572	382	831	1759	498	892 1	1889 (613 9	938 20	2018 72	728 98	984 21	2149 879	9 1033	3 2209	941	1053
0.4	855	113	674	1101	196	740	1347	278	908	1540	396	864	1732	513	921 1	1866 (629	965 19	1999 74	744 10	1008 21	2134 896	6 1054	49	1	:
0.5	808	125	720	1060	209	781	1312	293	842	1509	412	896	1706	530	950 1	1843 (646 9	992 19	1980 76	762 10	1033 2119	19 915	5 1077	2	1	-
9.0	764	139	, 992	1022	225	823	1279	310	879	1481	430	930	1682	549 6	980 1	1821 (666 10	1019 19	1960 78	782 10	1058 2102	02 935	5 1101	レ		
0.7	722	155	812	985	242	864	1247	328	916	1452	449	964	1657	569 1	1011 1	1799 (686 10	1048 19	1940 803	<u> </u>	1084 20	2084 955	5 1125	9:	1	:
0.8	682	172	858	949	260	906	1216	348	953	1424	469	997	1632	589 1	1041	1776	706 10	1076 19	1919 823		1111 20	2063 974	4 1150	0	1	:
6.0	643	191	903	914	279	946	1185	367	686	1396	489	1030	1606	610 1	1071 1	1751	727 11	1104 18	1895 843	_	1137 20	2039 992	2 1175	9.	1	:
1.0							1153	386	1024	1366	208	1062	1579	629 1	1100 1	1724	745 11	1132 18	1869 861		1163 2011	11 1008	1201	1		
1.1							1120	404	1059	1334	525	1095 1	1548	646 1	1130 1	1694	761 11	1160 18	1839 876	_	1189 19	1979 1021	1226	9;		
1.2							1085	420	1093	1300	541	1126	1515	661 1	1158 1	1660	775 11	1186 18	1805 889		1214 1941	41 1031	11250	09		
1.3							1047	433	1126	1263	. 223	1156	1478	672 1	1186 1	1622	785 12	1213 17	1766 898		1239 18	1897 1037	37 1275	9.	1	
4.1		-	:				1005	442	1158 1221	_	561	1185	1436	680 1	1212 1	1579	792 12	1238 17	1721 90	903 12	1263 18	1847 1037	37 1298	8	1	1

BLOWER DATA

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

Air	Wet	Humiditrol	Gas H	eating			Filters	
Volume cfm	Indoor Coil	Dehumidification Coil	Standard Heat	Medium Heat	Economizer	MERV 8	MERV 13	MERV 16
800	0.01	0.00	0.02	0.02	0.04	0.04	0.05	0.04
1000	0.02	0.00	0.02	0.02	0.04	0.04	0.07	0.05
1200	0.04	0.01	0.02	0.02	0.04	0.04	0.07	0.05
1400	0.05	0.02	0.02	0.02	0.04	0.04	0.07	0.06
1600	0.07	0.03	0.02	0.03	0.04	0.04	0.07	0.08
1800	0.08	0.04	0.03	0.04	0.05	0.04	0.07	0.09
2000	0.10	0.04	0.03	0.04	0.05	0.05	0.08	0.10
2200	0.11	0.04	0.04	0.04	0.05	0.05	0.08	0.11
2400	0.13	0.04	0.04	0.05	0.05	0.05	0.08	0.12

POWER EXHAUST FAN PERFORMANCE

Return Air System Static Pressure in. w.g.	Air Volume Exhausted cfm
0.00	2000
0.05	1990
0.10	1924
0.15	1810
0.20	1664
0.25	1507
0.30	1350
0.35	1210

CEILING DIFFUSERS AIR RESISTANCE (i	n. w.g.)
-------------------------------------	----------

Air Volume	R	TD9-65S Step-Down Diffus	er	FD9-65S Flush
cfm	2 Ends Open	1 Side & 2 Ends Open	All Ends & Sides Open	Diffuser
800	0.15	0.13	0.11	0.11
1000	0.19	0.16	0.14	0.14
1200	0.25	0.20	0.17	0.17
1400	0.33	0.26	0.20	0.20
1600	0.43	0.32	0.20	0.24
1800	0.56	0.40	0.30	0.30
2000	0.73	0.50	0.36	0.36
2200	0.95	0.63	0.44	0.44

Air Volume - cfm	¹ Effective Throw - f			
Model No.	RTD9-65S	FD9-6		

CEILING DIFFUSER AIR THROW DATA

All Volume - Cim	Elicotive Tillow - It.		
Model No.	RTD9-65S	FD9-65S	
800	10 - 17	14 - 18	
1000	10 - 17	15 - 20	
1200	11 - 18	16 - 22	
1400	12 - 19	17 - 24	
1600	12 - 20	18 - 25	
1800	13 - 21	20 - 28	
2000	14 - 23	21 - 29	
2200	16 - 25	22 - 30	

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

ELECTRICAL DA	ATA			3 TON		
Model		LGT036H5				
¹ Voltage - 60Hz		208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph		
Compressor	Rated Load Amps	14.2	8.8	4		
	Locked Rotor Amps	78.1	70	31		
Outdoor Fan Motor	Full Load Amps (1 ECM	2.8	2.8	1.4		
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	2.4	1.3		
Service Outlet 115V GF	-I (amps)	15	15	15		
Indoor Blower	HP	0.5	0.5	0.5		
Motor	Full Load Amps	4.3	4.3	2.2		
² Maximum	Unit Only	35	25	15		
Overcurrent Protection (MOCP)	With (1) 0.33 HP Power Exhaust	40	25	15		
³ Minimum	Unit Only	25	19	9		
Circuit Ampacity (MCA)	With (1) 0.33 HP Power Exhaust	28	21	10		

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	DATA			4 TON		
Model		LGT048H5				
¹ Voltage - 60Hz		208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph		
Compressor	Rated Load Amps	17.1	11.7	5.7		
	Locked Rotor Amps	109	123	60		
Outdoor Fan Motor	Full Load Amps (1 ECM	2.8	2.8	1.4		
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	2.4	1.3		
Service Outlet 115V	/ GFI (amps)	15	15	15		
Indoor Blower	HP	1	1	1		
Motor	Full Load Amps	7.4	7.4	3.7		
² Maximum	Unit Only	45	35	15		
Overcurrent Protection (MOCP)	With (1) 0.33 HP Power Exhaust	50	35	15		
³ Minimum	Unit Only	32	25	13		
Circuit Ampacity (MCA)	With (1) 0.33 HP Power Exhaust	34	28	14		

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

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

² HACR type breaker or fuse.

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

² HACR type breaker or fuse.

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

ELECTRICAL	DATA			5 TO
Model			LGT060H5	
¹ Voltage - 60Hz		208/230V - 1 Ph	208/230V - 3 Ph	460V - 3 Ph
Compressor	Rated Load Amps	23.5	14	6.5
	Locked Rotor Amps	118	93	60
Outdoor Fan Motor	Full Load Amps (1 ECM	2.8	2.8	1.4
Power Exhaust (1) 0.33 HP	Full Load Amps	2.4	2.4	1.3
Service Outlet 115	V GFI (amps)	15	15	15
Indoor Blower	HP	1	1	1
Motor	Full Load Amps	7.4	7.4	3.7
² Maximum	Unit Only	60	40	15
Overcurrent Protection (MOCP)	With (1) 0.33 HP Power Exhaust	60	40	20
³ Minimum	Unit Only	40	28	14
Circuit	With (1) 0.33 HP	12	31	15

42

31

15

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

With (1) 0.33 HP

Power Exhaust

Ampacity (MCA)

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

² HACR type breaker or fuse.

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

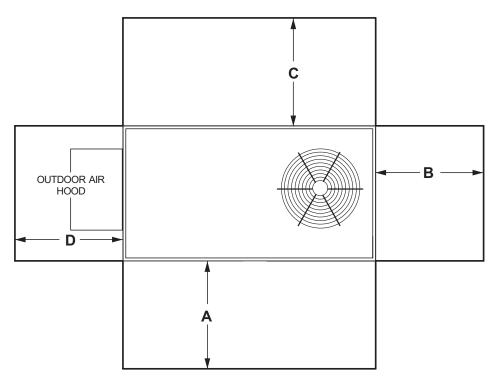
OUTDOOR SOUND DATA										
Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - Hz						¹ Sound Rating				
Model No.	125	250	500	1000	2000	4000	8000	Number dBA		
036, 048	63	66	70	71	68	62	53	75		
060	67	72	77	76	73	68	61	82		

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

 ^{1 1} Sound Rating Number according to AHRI Standard 270-95 (includes pure tone penalty). Sound Rating Number is the overall A-Weighted Sound Power Level, (Lwa), dBA (100 Hz to 10,000 Hz).

WEIGHT DATA				UNIT
Madal Number	N	et	Ship	ping
Model Number	lbs.	kg	lbs.	kg
036 Base Unit	630	286	691	313
036 Max. Unit	827	375	888	403
048 Base Unit	629	285	690	313
048 Max. Unit	826	375	890	404
060 Base Unit	630	286	691	313
060 Max. Unit	830	376	891	404

FACTORY / FIELD INSTALLED OPTIONS AND ACCESSORIES - NET WI	EIGHTS	
Description	lbs.	kg
ECONOMIZER / OUTDOOR AIR / EXHAUST		
Economizer		
Economizer, Includes Combination Outdoor Air Hood and Barometric Relief Dampers	84	38
Outdoor Air Dampers		
Motorized	40	18
Manual	30	14
Power Exhaust	35	17
GAS HEAT		
Medium Heat (adder over low heat)	8	4
COMBINATION COIL/HAIL GUARDS		
All models	31	14
ROOF CURBS		'
Hybrid Roof Curbs, Downflow		
8 in. height	86	39
14 in. height	108	49
18 in. height	125	57
24 in. height	147	67
Adjustable Pitch Curb, Downflow		
14 in. height	147	67
CEILING DIFFUSERS		
Step-Down RTD9-65S	80	36
Flush FD9-65S	80	36
Transitions T1TRAN10AN1	22	10
HUMIDITROL® DEHUMIDIFICATION SYSTEM		
Humiditrol Dehumidification Option	27	12



¹ Unit Clearance		Δ.	E	В	(3	[)	Тор
· Onit Clearance	in.	mm	in.	mm	in.	mm	in.	mm	Clearance
Service Clearance	48	1219	36	914	36	934	36	914	
Clearance to Combustibles	36	914	1	25	1	25	1	25	Unobstructed
Minimum Operation Clearance	36	914	36	914	36	914	36	914	

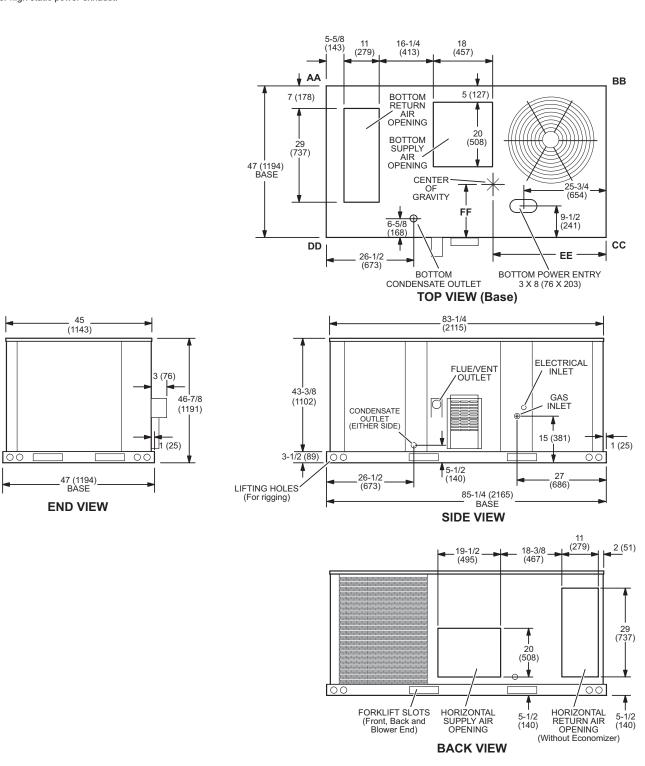
 $^{{\}sf NOTE} \ {\sf -Entire} \ {\sf perimeter} \ {\sf of} \ {\sf unit} \ {\sf base} \ {\sf requires} \ {\sf support} \ {\sf when} \ {\sf elevated} \ {\sf above} \ {\sf the} \ {\sf mounting} \ {\sf surface}.$

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.

DIMENSIONS UNIT **CENTER OF GRAVITY CORNER WEIGHTS** AA BB CC DD EE Model in. lbs. lbs lbs lbs. in. kg kg kg kg mm mm LGT036 Base Unit 131 59 161 73 220 179 38-1/4 972 19-7/8 100 81 505 LGT036 Max. Unit 168 76 207 94 283 128 230 104 39-3/4 1010 19-7/8 505 LGT048 Base Unit 131 59 220 100 81 161 73 179 38-1/4 972 19-7/8 505 LGT048 Max. Unit 169 77 207 94 283 128 230 104 505 39-3/4 1010 19-7/8 LGT060 Base Unit 131 59 161 73 220 100 81 505 179 38-1/4 972 19-7/8 LGT060 Max. Unit 169 77 208 94 284 129 231 105 39-3/4 1010 19-7/8 505

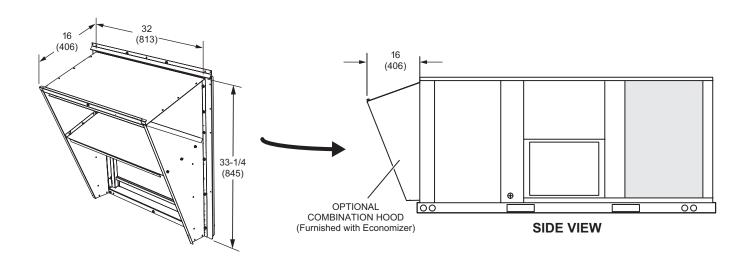
Base Unit - The unit with NO INTERNAL OPTIONS

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.

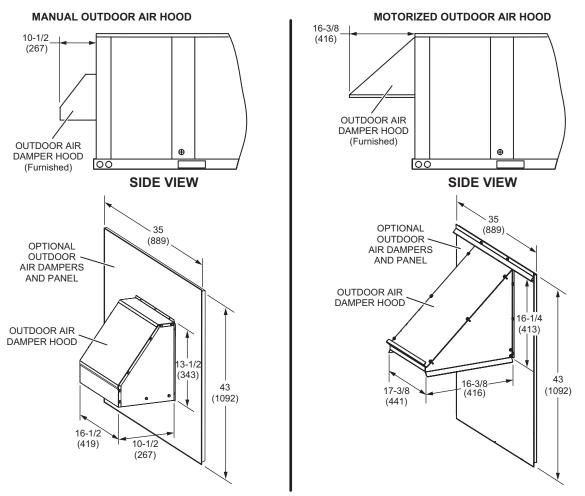


COMBINATION OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER AND BAROMETRIC RELIEF DAMPERS

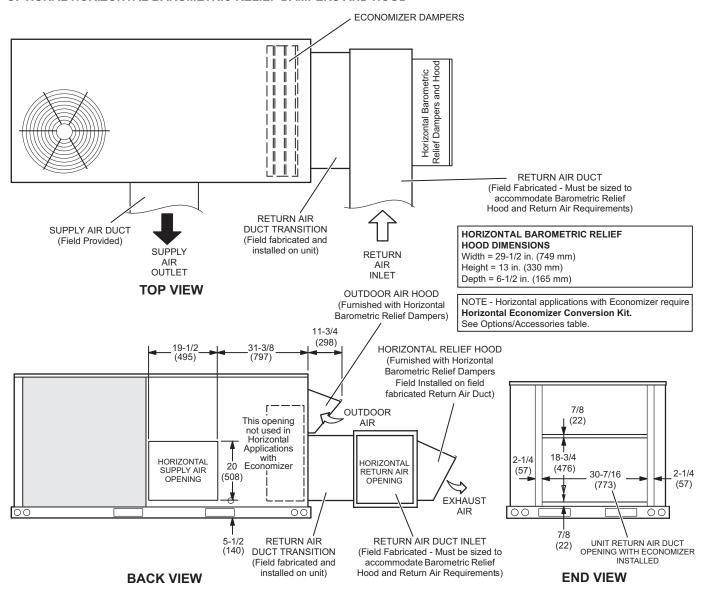
(Furnished With Economizer for Downflow Applications)



OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

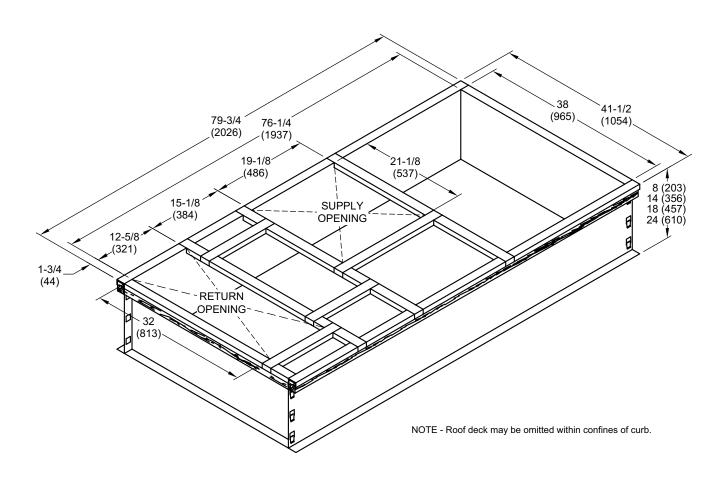


HORIZONTAL ECONOMIZER APPLICATIONS - OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER DAMPERS AND OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS AND HOOD

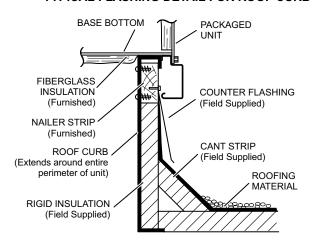


NOTE - Return Air Duct and Transition must be supported.

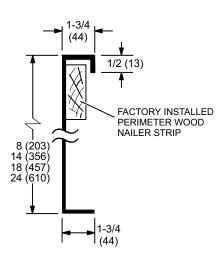
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



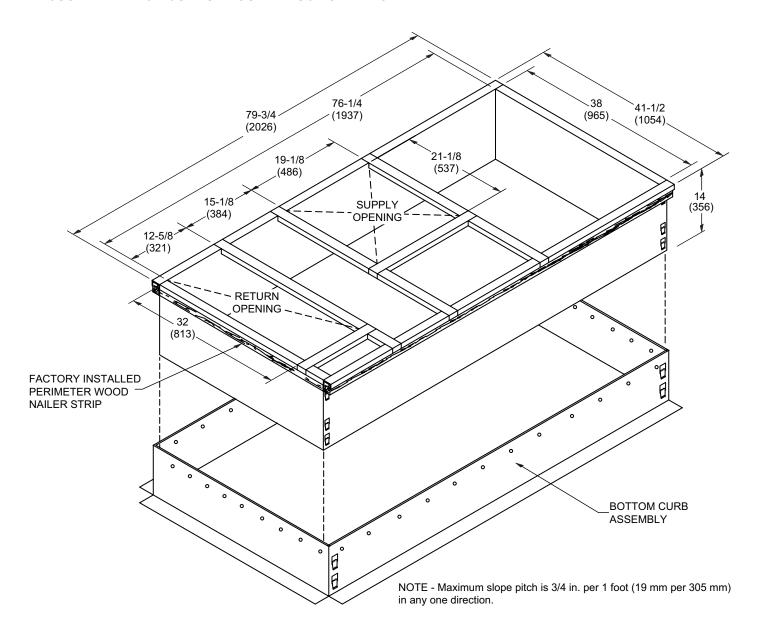
TYPICAL FLASHING DETAIL FOR ROOF CURB



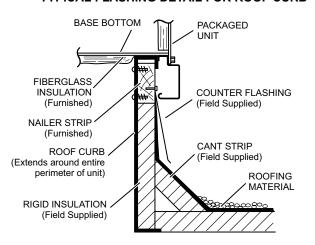
DETAIL ROOF CURB



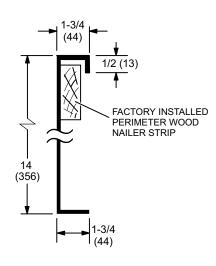
ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

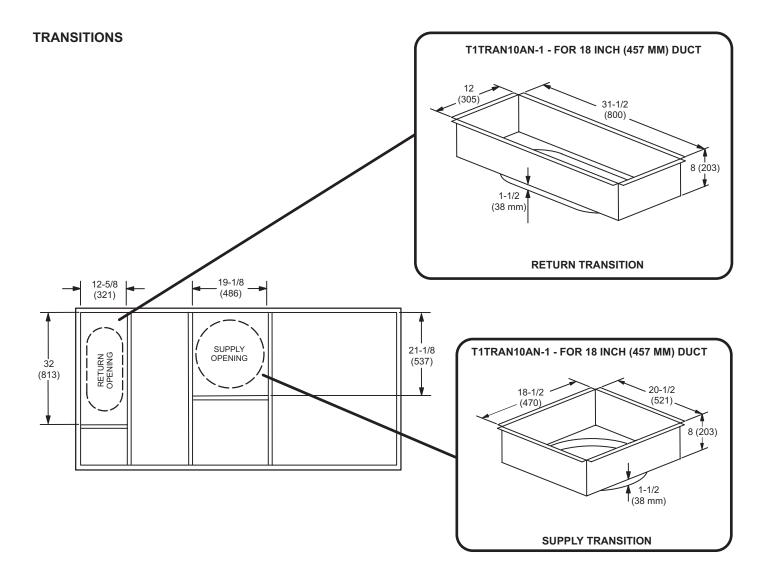


TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB



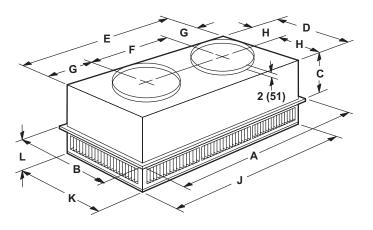


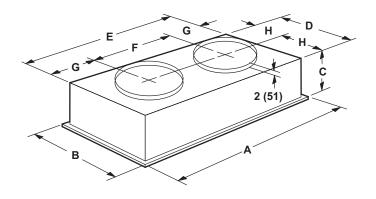
DIMENSIONS - ACCESSORIES

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER







Model		RTD9-65S
Α	in.	47-5/8
	mm	1159
В	in.	23-5/8
	mm	600
С	in.	11-3/8
	mm	289
D	in.	21-1/2
	mm	546
E	in.	45-1/2
	mm	1156
F	in.	22-1/2
	mm	572
G	in.	11-1/2
	mm	292
Н	in.	10-3/4
	mm	273
J	in.	45-1/2
	mm	1156
K	in.	21-1/2
	mm	546
L	in.	7-1/8
	mm	181
Duct	in.	18 round
Size	mm	457 round

Model		FD9-65S
Α	in.	47-5/8
	mm	1159
В	in.	23-5/8
	mm	600
С	in.	13-1/2
	mm	343
D	in.	21
	mm	533
E	in.	45
	mm	1143
F	in.	22-1/2
	mm	572
G	in.	11-1/4
	mm	286
Н	in.	10-1/2
	mm	267
Duct	in.	18 round
Size	mm	457 round

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















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

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