

Enlight™ Ultra-Low NOx Rooftop Units High Efficiency - 60 Hz

COMMERCIAL PRODUCT SPECIFICATIONS

Bulletin No. 210978 November 2024 Supersedes all previous versions











Environ | Humiditrol | SMARTWIRE SYSTEM

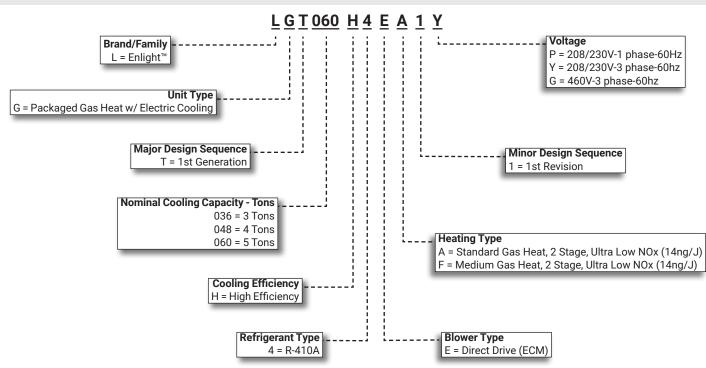
ASHRAE 90.1 COMPLIANT



3 to 5 Tons

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

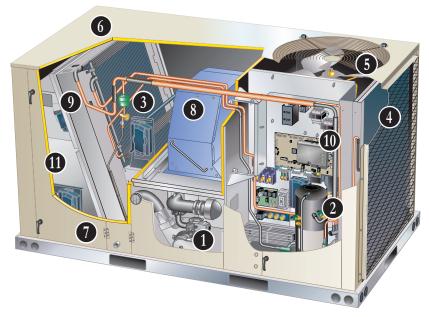
MODEL NUMBER IDENTIFICATION



FEATURE HIGHLIGHTS

CONTENTS

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.



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

- 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. Supply Air Direct Drive (ECM) Blower

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- 1.0 Hp
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APPROVALS AND WARRANTY

APPROVALS

- AHRI Certified to AHRI Standard 210/240
- · ETL and CSA listed
- · Efficiency rating certified by CSA
- 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
- 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

FEATURES AND BENEFITS

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-410A Refrigerant

- · Non-chlorine based
- Ozone friendly

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 MSAV® (Multi-Stage Air Volume) performance and quiet 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

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

FEATURES AND BENEFITS

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

7 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

Combination Coil/Hail Guards

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

BLOWER

Motor

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

8 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

FEATURES AND BENEFITS

ELECTRICAL (continued)

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

9 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

NOTE - Please visit <u>www.sciencedirect.com</u> for additional information.

- 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
- Ions travel within the building air stream and attach to particles, pathogens, and gas molecules, making them larger and easier to capture in the filtration system
- UL 2998 certified for zero ozone emission

Indoor Air Quality (CO2) Sensors

- Monitors CO2 levels
- Reports to the Lennox® CORE Unit Controller, which adjusts economizer dampers as needed

Replacement Filter Media Kit With Frame

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

CONTROL SYSTEM

LENNOX® CORE CONTROL SYSTEM



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

CORE Mobile Service App

unit functions.

- 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 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
- · Compatibility with Lennox Wireless Zone Sensors
- 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

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

Commercial Control Systems

Field Installed

Thermostats

Control system and thermostat options, see page 12

Commercial Control Systems

Field Installed

Thermostats

Control system and thermostat options, see page 12

OPTIONS / ACCESSORIES

ECONOMIZER



- Economizer operation is set and controlled by the ennox® 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

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
- 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 2013 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
- 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

Outdoor Air Damper

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

NOTE - Manual Outdoor Air Damper is a field installed option only.

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
- A thermostat with a dehumidification output, a dehumidistat, or a DDC controller with an isolated output is required to control humidity and must be located in the occupied space

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

- Unit Controller is factory set at 60% relative humidity setpoint and can be adjusted at the Unit Controller or with optional Unit Controller Software
- 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

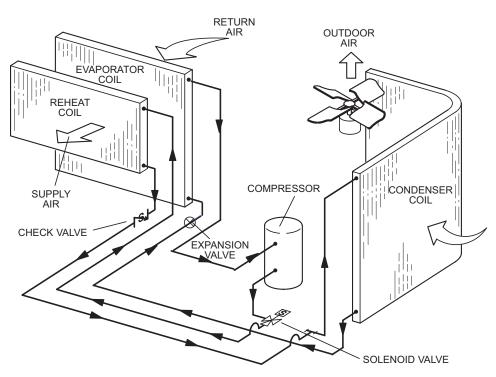
Options/Accessories

Humidity Sensor Kit

 Remote mounted dehumidistat for factory installed Humiditrol® option or Supermarket reheat field selectable option

NOTE - A thermostat with a dehumidification output or a DDC controller with an isolated output can be used instead.

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

Description		Catalog No
CS8500 Commercial 7 Day Programmable Thermostat		
CS8500 7-Day Thermostat	No CO₂ Sensing	17G75
	With CO₂ Sensing	17G76
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 Blad	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
insulation - Low Smoke F VO, NEO, Givir	2500 ft. roll	68M25
CS7500 Commercial 7-Day Programmable Thermostat		
CS7500 7-Day Thermostat		17G74
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	n-Communicating)	21W06

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

¹Unit Features an Economizer and Outdoor Air is Suitable

Cooling - 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)

Cooling - 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

(Continued on Next Page)

SEQUENCE OF OPERATION

DIRECT DRIVE OPERATION

(Continued):

Dehumidification Mode (economizer free cooling is locked out):

Unit features the Humiditrol® Dehumidification option

No Y1, Y2 Demand but a call for dehumidification:

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 Mode: 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

OPTIONS / ACCESSORIES				
Maria de la companya	Catalog	Uni	it Model Nun	nber
Item	Number	036	048	060
COOLING SYSTEM				_
Condensate Drain Trap PV	C 22H54	Χ	Х	Χ
Сорр	er 76W27	Χ	Х	Χ
Drain Pan Overflow Switch	21Z07	OX	OX	OX
HEATING SYSTEM				
Gas Heat Input Standard Two-Stage - 45/60 kBtuh Inp	ut Factory	0	0	0
Medium Two-Stage - 75/100 kBtuh Inp	ut Factory	0	0	0
BLOWER - SUPPLY AIR				
Motors - Direct Drive ECM Blower - 0.50	p Factory	0		
Standard Static (All voltages)	p Factory		0	0
CABINET				
Combination Coil/Hail Guards	13T03	OX	OX	OX
Corrosion Protection	Factory	0	0	0
CONTROLS				
Blower Proving Switch	21Z10	OX	OX	OX
Commercial Controls CPC Einstein Integration	n Factory	0	0	0
LonTalk® Modu	le 54W27	OX	OX	OX
Novar® LS	E Factory	0	0	0
Dirty Filter Switch	53W66	OX	OX	OX
General Purpose Control Kit	13J78	Х	Х	Х
Fresh Air Tempering	58W63	OX	OX	OX
Smoke Detector - Supply or Return (Power board and one sensor)	21Z11	OX	OX	OX
Smoke Detector - Supply and Return (Power board and two sensors)	21Z12	OX	OX	OX

NOTE - Catalog 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

lto m		Catalog	Uni	it Model Num	ıber
Item		Number	036	048	060
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
¹ Short-Circuit Current Ratio	ng (SCCR) of 100kA (includes Voltage Detection)	Factory	0	0	0
Disconnect Switch	 80 amp	22A25	OX	OX	ОХ
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 GI	FI	10C89	Х	Х	Х
ECONOMIZER					
	omizer With Outdoor Air Hood (Sensible Control) Title 24 Building Standards / AMCA Class 1A Certified	d)			
High Performance Econom Dampers and Combination	nizer - Includes Barometric Relief n Hood	20H48	OX	OX	ОХ
High Performance Econon	nizer - No Exhaust Option	Factory	0	0	0
Economizer Accessories					
Horizontal Economizer Co	nversion Kit	17W45	Х	Х	Х
Economizer Controls (No	ot for Title 24)				
Differential Enthalpy	Order 2	21Z09	OX	OX	OX
Sensible Control	Sensor is Furnished	Factory	0	0	0
Outdoor Air CFM Control		13J76	Х	Х	Х
Single Enthalpy		21Z09	OX	OX	ОХ
Global Control	Sensor Field Provided	Factory	0	0	0
Building Pressure Control		13J77	Х	Х	Х
POWER EXHAUST FAN				-	
Standard Static	208/230V-1 or 3ph	21Z13	OX	OX	OX
•	stalled Power Exhaust Fan f Dampers for Power Exhaust 460V-3ph the below.	21Z14	OX	OX	OX
BAROMETRIC RELIEF					
³ Barometric Relief Dampe	ers for Power Exhaust Kit	21Z21	Х	Х	Х
	elief Dampers With Exhaust Hood	19F01	X	X	X
OUTDOOR AIR			•		
Outdoor Air Dampers Wi	th Outdoor Air Hood				
Motorized		15D17	OX	OX	OX
Manual		15D18	X	X	Х

 $^{^{\}mbox{\tiny 1}}$ Disconnect Switch is furnished and factory installed with High SCCR option.

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

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

 $^{^{\}rm 3}$ Required when Economizer is factory installed with factory installed Power Exhaust Fan option.

 $^{^{\}mbox{\tiny 4}}$ Required when Economizer is configured for horizontal airflow.

OX - Configure To Order (Factory Installed) or Field Installed
O = Configure To Order (Factory Installed)
X = Field Installed

		Catalog	Uni	t Model Num	ber
Item		Number	036	048	060
HUMIDITROL® CONDENSER REHEAT OPTION					
Humiditrol Dehumidification Option		Factory	0	0	0
Humidity Sensor Kit, Remote mounted (required)		17M50	Х	Х	Х
$^{\rm 1}$ Required when Economizer is factory installed with factory installed Power Exhaust $^{\rm 2}$ Required when Economizer is configured for horizontal airflow.	Fan option.				
INDOOR AIR QUALITY					
Air Filters					
Healthy Climate® High Efficiency Air Filters	MERV 8	54W21	OX	OX	OX
20 x 20 x 2 in. (Order 4 per unit)	MERV 13	52W39	OX	OX	OX
	MERV 16	21U40	Χ	Х	Χ
Replaceable Media Filter With Metal Mesh Frame (includes non-pleated filter media) (order 4 per unit)	20 x 20 x 2 in.	44N60	Х	Х	Х
Indoor Air Quality (CO₂) Sensors					
Sensor - Wall-mount, off-white plastic cover with LCD display		77N39	Х	Х	Х
Sensor - Wall-mount, off-white plastic cover, no display		23V86	Х	Х	Х
Sensor - Black plastic case with LCD display, rated for plenum moun	ting	87N52	Х	Х	Х
Sensor - Wall-mount, black plastic case, no display, rated for plenum mount	ting	87N54	Х	Х	Х
CO₂ Sensor Duct Mounting Kit - for downflow applications		23Y47	Х	Х	Χ
Aspiration Box - for duct mounting non-plenum rated CO₂ sensors ((77N39)	90N43	Х	Х	Х
Needlepoint Bipolar Ionization (NPBI)					
Needlepoint Bipolar Ionization (NPBI) Kit		22U14	Х	Х	Х
UVC Germicidal Lamps					
¹ Healthy Climate [®] UVC Light Kit (110/230v-1ph)		21A92	Х	Х	Х
Step-Down Transformer 460V primary, 2	230V secondary	10H20	Х	Х	Х
ROOF CURBS					
Hybrid Roof Curbs, Downflow					
8 in. height		11F50	Χ	Х	Х
14 in. height		11F51	Χ	Χ	X
18 in. height		11F52	Х	Х	Х
24 in. height		11F53	Х	Х	Х
Adjustable Pitched Curb					
14 in. height		43W27	Χ	X	Χ
Transition Curb					
Matches Enlight™ 036-072 Units to existing L Series® Curbs		31B05	Χ	X	Х
CEILING DIFFUSERS					
Step-Down - Order one	RTD9-65S	13K60	Х	Х	Х
Flush - Order one	FD9-65S	13K55	Х	Х	Х
Transitions (Supply and Return) - Order one	T1TRAN10AN1	17W53	Х	Х	Х

¹ 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 - Catalog 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

				_ _					
General Data	Nominal Tonnage	3 Ton	4 Ton	5 Ton					
	Model Number	LGT036H4E	LGT048H4E	LGT060H4E					
	Efficiency Type	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 Net Cooling Capacity (Btuh) 3ph	36,000	49,000	60,000					
	¹ AHRI Rated Air Flow (cfm-high/low) 3ph	1200/800	1800/1200	1800/1350					
	¹ SEER (Btuh/Watt) - 208/230V-3ph	17.8	17.6	17.1					
	¹ SEER (Btuh/Watt) - 460V, 575V-3ph	17.0	17.0	17.0					
	¹ EER (Btuh/Watt) - 3ph	13.3	12.8	12.7					
	Total Unit Power (kW) 3ph	2.7	3.8	4.6					
	¹ Net Cooling Capacity (Btuh) 1,3ph	36,000	49,000	59,500					
	¹ AHRI Rated Air Flow (cfm-high/low) 1,3ph	1200/800	1800/1200	1800/1350					
	¹ SEER2 (Btuh/Watt) 1,3ph	16.8	17.3	16.3					
	¹ EER2 (Btuh/Watt) 1,3ph	13.0	12.1	12.0					
	Total Unit Power (kW) 1,3ph	2.8	4.1	5.0					
Sound Ratin	g Number (SRN) (dBA)	75	75	82					
Refrigerant	Refrigerant Type	R-410A	R-410A	R-410A					
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 Heating (Options Available - See page 20	Standard (2 stage), Medium (2 stage)	Standard (2 stage), Medium (2 stage)	Standard (2 stage), Medium (2 stage)					
Compressor ⁻	Type (one per unit)	Two-Stage Scroll	Two-Stage Scroll	Two-Stage Scroll					
Outdoor Coil	Net face area (total) - sq. ft.	17.80	17.80	17.80					
	Number of rows	1	1	1					
	Fins per inch	20	20	20					
Outdoor Coil	Motor - (No.) horsepower	(1) 1/3 (ECM)	(1) 1/3 (ECM)	(1) 1/3 (ECM)					
Fans	Motor rpm	550-830	765-1010	830-1030					
	Total Motor watts	65-175	130-300	170-350					
	Diameter - (No.) in.	(1) 24	(1) 24	(1) 24					
	Number of blades	3	3	3					
	Total air volume - cfm	2400 - 3795	2700 - 4100	3200 - 4700					
Indoor	Net face area (total) - sq. ft.	8.65	8.65	8.65					
Coil	Number of rows	1	1	1					
	Fins per inch	20	20	20					
	Drain connection (Number) and size - in.	(1) 1 NPT	(1) 1 NPT	(1) 1 NPT					
	Expansion device type	Balanced Port Thermo	static Expansion Valve,re	movable element head					
Indoor	Blower Type		Direct Drive ECM						
Blower	Blade type		Forward Curved						
	Nominal motor HP	0.50	1	1					
	Blower wheel D x W - in.	n. (1) 10 X 10 (1) 11 X 10 (1) 11 X 10							
Filters	Type of Filter		MERV 4, Disposable	•					
	Number and size		(4) 20 x 20 x 2						
Electrical cha	racteristics	2	08/230V - 60 Hz - 1 phas	e					
		208/230V or 460V - 60 Hz - 3 phase							

NOTE - Shaded area indicates AHRI 2023 M1 Ratings. Does not include 575V-3ph models.

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 210/240 (3-5 ton) or 340/360 (6 ton): 95°F outdoor air temperature and 80°F db/67°F wb entering evaporator air; minimum external duct static pressure.

 $^{^{\}mathrm{2}}$ Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270

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 Ph	nase)	80%	80%
Gas Supply Connections		1/2	in. NPT
Recommended Gas Supply Pro	essure - Nat.	7 in. w.ç	g. / 11 in. w.g.
Gas Supply Pressure Range	Min./Max.	4.5 - 1	0.5 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 - LGT036H4 (PART LOAD)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil										
Entering	Total		(55°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	Сар.	Input		ry Bul	b	Cap.	Input	Dry Bulb			Dry Bulb Cap.			Cap.	Input	Input Dr		ry Bulb	
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				
	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 - LGT036H4 (FULL LOAD)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil									
Entering	Total			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	Ra	atio (S/	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor	Ra	tio (S/	T)	Cool	Motor Ratio (T)			
perature		Cap.	Input	D	ry Bul	b	Cap.	Input		ry Bul	b	Cap.	Input	D	ry Bul	b	Cap.	Input		b				
po. a.a.	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 - LGT048H4 (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 Tem-	Air Volume	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/)rv 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
	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 - LGT048H4 (FULL LOAD)

								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Entering	Total		8	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	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		Cap.	Input		ry Bul		Cap.	Input		ry Bul		Cap.	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
	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 - LGT060H4 (PART LOAD)

								Out	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	Сар.	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
	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 - LGT060H4 (FULL LOAD)

F . 4								Ou	tdoor A	ir Tem	peratu	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.		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/	T)
perature		Сар.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	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	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 - LGT036H4 WITH HUMIDITROL® OPERATING

Entering								Ou	tdoor A	ir Tem	peratu	re Enter	ing Outo	loor C	oil						
Wet	Total		(55°F					75°F					35°F					95°F		
	Air Vol-	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 Tem-	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)
perature		Cap.	Input		ry Bul		Cap.	Input		ry Bul		Cap.	Input		ry Bul	_	Cap.	Input		ry Bulk	
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	1.7	.44	.57	.71	17.8	1.9	.29	.48	.67	13.3	2.1	.14	.39	.64	8.9	2.3	01	.30	.60
63°F	800	23.7	1.7	.45	.60	.75	18.4	1.9	.24	.49	.75	13.1	2.1	.03	.38	.74	7.8	2.3	19	.28	.74
	960	25.2	1.7	.46	.63	.79	19.1	1.9	.19	.50	.82	12.9	2.1	09	.38	.85	6.7	2.3	37	.26	.88
	640	26.1	1.7	.33	.45	.56	21.4	1.9	.19	.35	.50	16.8	2.2	.04	.25	.45	12.1	2.4	10	.14	.39
67°F	800	27.9	1.7	.33	.46	.59	22.4	1.9	.14	.34	.54	16.9	2.1	05	.22	.49	11.3	2.4	25	.10	.44
	960	29.8	1.7	.33	.48	.62	23.4	1.9	.09	.34	.58	17.0	2.1	15	.19	.54	10.6	2.3	39	.05	.49
	640	30.0	1.7	.22	.32	.42	25.1	2.0	.09	.21	.34	20.2	2.2	05	.10	.26	15.3	2.4	19	01	.17
71°F	800	32.1	1.8	.21	.33	.44	26.4	2.0	.04	.19	.34	20.6	2.2	13	.05	.24	14.9	2.4	31	08	.14
	960	34.3	1.8	.20	.33	.46	27.7	2.0	01	.17	.34	21.1	2.2	22	.00	.22	14.5	2.4	42	16	.10

4 TON - LGT048H4 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.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ble To	Total	Total	Comp.		ible To	
Bulb Tem-	ume	Cool	Motor	Ra	atio (S/	(T)	Cool	Motor	R	atio (S/	T)	Cool	Motor		atio (S/		Cool	Motor		atio (S/	
		Cap.	Input		ry Bul	b	Cap.	Input		ry Bul	b	Сар.	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
	960	30.8	2.3	.42	.67	.92	24.1	2.5	.22	.51	.79	17.5	2.8	.03	.35	.67	10.8	3.0	17	.19	.54
63°F	1200	32.2	2.3	.43	.64	.85	24.7	2.5	.18	.48	.78	17.2	2.7	07	.32	.71	9.7	2.9	32	.16	.64
	1440	33.6	2.3	.45	.62	.78	25.3	2.5	.14	.46	.77	17.0	2.7	17	.30	.76	8.7	2.9	47	.14	.75
	960	35.5	2.4	.31	.48	.66	28.7	2.6	.13	.34	.55	21.8	2.8	05	.19	.44	15.0	3.0	23	.05	.33
67°F	1200	37.1	2.4	.31	.47	.63	29.4	2.6	.08	.31	.54	21.8	2.8	14	.15	.45	14.1	3.0	37	01	.36
	1440	38.6	2.4	.32	.46	.61	30.2	2.6	.04	.29	.54	21.7	2.8	24	.11	.47	13.3	3.0	51	06	.40
	960	40.2	2.4	.19	.30	.40	33.2	2.6	.03	.17	.31	26.1	2.8	13	.04	.21	19.1	3.0	30	09	.11
71°F	1200	41.9	2.4	.19	.30	.42	34.1	2.6	01	.15	.30	26.3	2.8	22	01	.19	18.5	3.0	43	17	.08
	1440	43.6	2.4	.19	.31	.43	35.0	2.6	06	.12	.30	26.4	2.8	31	07	.17	17.9	3.0	55	26	.04

5 TON - LGT060H4 WITH HUMIDITROL® OPERATING

Entering								Ou	tdoor A	ir Tem	peratu	re Enter	ing Out	door C	oil						
Wet	Total			65°F					75°F					85°F					95°F		
	Air Vol-	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	ible To	Total	Total	Comp.	Sens	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		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
	1080	34.1	2.8	.40	.54	.68	26.8	3.0	.20	.42	.63	19.5	3.3	.00	.29	.58	12.1	3.6	19	.17	.53
63°F	1350	35.6	2.8	.41	.57	.73	27.4	3.0	.16	.42	.68	19.2	3.3	10	.26	.63	11.0	3.5	35	.11	.57
	1620	37.0	2.8	.42	.60	.77	28.0	3.1	.11	.42	.72	19.0	3.3	20	.24	.67	10.0	3.5	51	.05	.61
	1080	38.7	2.8	.29	.41	.54	31.4	3.1	.11	.28	.46	24.2	3.4	08	.15	.38	16.9	3.6	26	.02	.30
67°F	1350	40.6	2.9	.29	.43	.56	32.5	3.1	.07	.27	.48	24.3	3.4	16	.12	.39	16.1	3.6	39	04	.31
	1620	42.6	2.9	.30	.45	.59	33.5	3.1	.03	.26	.50	24.4	3.4	25	.08	.41	15.3	3.6	52	10	.32
	1080	43.3	2.9	.18	.28	.39	36.1	3.1	.01	.15	.28	28.9	3.4	16	.01	.18	21.7	3.7	33	13	.07
71°F	1350	45.7	2.9	.18	.29	.40	37.5	3.2	03	.13	.28	29.3	3.4	23	03	.16	21.2	3.7	43	19	.04
	1620	48.2	3.0	.17	.29	.41	39.0	3.2	06	.11	.28	29.8	3.4	30	08	.15	20.6	3.7	54	26	.02

BLOWER DATA

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

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard Heat - 900 cfm; Medium Heat - 1250 cfm.

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 26 for wet coil and options/accessory air resistance data.

DOWNFLOW	WO.																										
External											Pe	rcenta	age of	Percentage of Total Motor Torque	Motor	Torque	d										
Static		%07			30%			40%			20%			%09			%02			%08			%06			100%	
Press. in. w.g.	Cfm	Watts RPM	RPM	Cfm	Watts RPM		Cfm	Watts RPM		Cfm /	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts RPM	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	811	20	415	994	82	473	1177	114	531	1319	154	629	1461	194	979	1564	236	663	1667	278	200	1804	349	753	1878	396	783
0.1	716	47	494	906	81	547	1095	115	. 669	1243	158	642	1391	200	. 589	1500	243	718	1608	286	751	1753	361	798	1833	409	824
0.2	631	49	220	827	85	618	1023	121	. 999	1176	165	704	1329	209	742	1442	254	772	1555	299	802	1708	375	843	1794	425	865
0.3	226	54	644	758	95	289	096	130	729	1118	176	764	1275	222	662	1392	268	825	1509	314	851	1668	392	888	1759	443	206
0.4	489	62	715	969	102	753	903	142	791	1065	189	822	1227	236	853	1347	284	877	1467	331	006	1632	410	932	1726	462	949
0.5							851	155	851	1017	204	879	1183	253	906	1306	301	927	1429	349	948	1597	430	926	1693	481	991
9.0							804	170	606	973	220	933	1141	569	957	1267	318	926	1392	367	994	1562	449	1019	1660	501	1032
0.7	:		:		1		759	184	964	930	235	985	1101	286	1006	1228	336	1023	1355	385	1039	1527	467	1062	1624	519	1074
8.0							716	199	1017	889	251	1036	1061	302	1054	1189	352	1069	1317	402	1083	1489	484	1103	1585	535	1115
6.0	1 1						671	211	1067	845	264	1083	1019	316	1099	1148	366	1112	1276	416	1125	1447	499	1144	1540	549	1156
1.0							625	222	1114	800	275	1128	974	327	1142	1102	378	1154	1230	428	1165	1400	510	1183	1489	559	1196
1.1							929	230	1158	751	283	1170	925	336	1182	1052	387	1193	1179	437	1203 1345	1345	518	1221	1430	266	1235
1.2							521	234	1199	695	288	1210	698	341	1220	962	391	1230	1121	441	1240	1283	521	1258	1361	267	1273
1.3													908	340	1255	930	390	1265	1054	440	1274	1210	519	1293	1281	562	1311
1.4					1 1 1	1 1	:	:					734	335	1288	856	384	1297	977	433	1306	1126	510	1326	1188	552	1347
HORIZONTA	NTAL																										
External											Pe	rcents	age of	Percentage of Total Motor Torque	Motor	Torque	a										
Static		20%			30%			40%			20%			%09			%02			%08			%06			100%	

									Pel	rcenta	Percentage of Total Motor Torque	Fotal IV	lotor T	orque										
30% 30%	30%	30%				40%		4,	20%		9	%09		_	%02		æ	%08		6	%06		100%	%
Watts RPM Cfm Watts RPM Cfm	Cfm Watts RPM	Watts RPM	_	_		Watts RPM		Cfm W	Watts F	RPM	Cfm W	Watts	RPM	Cfm W	Watts R	RPM	Cfm W	Watts R	RPM C	Cfm W	Watts RF	RPM Cf	Cfm Watts	ts RPM
45 388 970 76 454 1146	970 76 454	76 454	-	1146		107	519	1281	149	575 1	1416	191	630 1	1522 1	110 (678 1	1627 2	293 7	726 17	1715 3	351 76	768 18	1802 408	8 810
44 460 895 78 519 1080	895 78 519	78 519	_	1080		111	. 229	1223	155 (627 1	1366	199 (677 1	1477 2	251 7	721 1	1588 3	303 7	764 16	1681 3	362 80	804 17	1773 420	0 843
46 531 855 82 583 1019	855 82 583	82 583	-	-		117	634	1169	163 (679 1	1318 2	. 802	723 1	1435 2	262 7	763 1	1552 3	315 8	803 16	1648 3	375 8	841 17.	1743 434	4 878
51 602 759 88 646 961	759 88 646	88 646		196		125	069	1117	172	730 1	1273	219	769 1	1395 2	274 8	805 1	1516 3	328 8	841 16	1615 3	388 8.	877 17	1714 448	8 912
58 671 696 97 709 906	906 602 26 969	906 602 26	906	_		135	746	1068	184	781 1	1230	232	815 1	1356 2	288	848	1481 3	343 8	880 15	1582 4	403 9	914 16	1683 463	3 948
66 740 637 107 771 854 1	637 107 771 854	107 771 854	854	_		147	802	1021	196	831	1188	245	860 1	1317	301	890	1446 3	327 8	919 15	1549 4	418 99	921 16	1652 478	8 983
804 1	804	804	804			159	856	946 2	209	881 1	1147	259	905 1	1279 3	316 9	932 1	1410 3	372 6	958 15	1514 4	432 98	989 16	1618 492	2 1019
. 952 126	992 128	992	992		Ľ	172	910	932 2	223 (930	1107	273	949 1	1241 3	330 6	973 1	1374 3	3 988	96 17	1478 4	446 10	1026 15	1582 506	6 1055
. 602	602	602	- 209		`	185	962	888	236	978 1	1066 2	287	993 1	1201 3	344 1	1014 1	1336 4	400 1	1034 14	1440 4	460 10	1063 15	1544 519	9 1091
. 699 693 .	699	663	663		Ľ	197 1	1013	844 2	249 1	1025 1	1025	300 1	1036 1	1161 3	357 1	1054 1	1296 4	413 1	1072 13	1399 4	472 11	1100 15	1502 530	0 1127
											982	313 1	1078 1	1118	369 1	1094	1254 4	424 1	1109 13	1355 4	482 11	1136 14	1456 540	0 1163
				- 1							938	323 1	1119 1	1073	379 1	1133 1	1208 4	434 1	1146 13	1307 4	491 11	1172 14	1406 548	8 1198
				- 1	_ '						892	332 1	1158 1	1026 3	387 1	1170 1	1159 4	441 1	1182 12	1255 4	497 12	1208 1351	51 553	3 1233
				- 1							843	340 1	1197	975 3	393 1	1207 1	1106 4	446 1	1216 11	1198 5	501 12	1242 1290	90 555	5 1268
	:		'				:		-		2067	344 1	1234	920	396 1	1242 1	1049 4	448 1	1250 11	1137 5	501 12	1276 1224	24 553	3 1302

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.).

Minimum Air Volume Required For Different Gas Heat Sizes:

Standard Heat - 900 cfm; Medium Heat - 1250 cfm.

See page 26 for wet coil and options/accessory air resistance data	26 for	wet coil	and one	vtions/8	SSOCIE	orv air	resist	dp egue	# 77																	
DOWNFLOW	MO		5			5		5	5																	
External											Per	centag	ye of To	Percentage of Total Motor Torque	tor Tor	-dne										
Static		%07		m	30%			40%		ς,	%09)9	%09		%0 2	%		80%	۰,0		%06			100%	
Press. in. w.g.	Cfm	Watts F	RPM C	Cfm W	Watts R	RPM (Cfm N	Watts R	RPM C	Cfm W	Watts RI	RPM	Cfm Wa	Watts RPM	M Cfm	m Watts	ts RPM	/ Cfm	n Watts	ts RPM	I Cfm	Watts	RPM	Cfm	Watts	RPM
0	1067	112	488 1	1325 1	196	573 1	1583	279 6	657 17	1759 3	381 7	726 19	1934 48	482 794	14 2046	46 579	9 845	2157	7 676	968 (2285	5 816	926	2358	925	686
0.1	984	26	537 1	1249 1	184 (616 1	1513	270 6	695 16	1697	376 7	760 1	1881 48	481 825	5 2002	02 584	4 873	2123	3 686	921	2273	838	978	2352	947	1008
0.2	912		587 1	1183 1	180 (661 1	1453	268 7	735 16	1644	377 7	796 1	1835 48	486 856	1964	54 593	3 902	2093	3 700	947	2264	1 863	1001	2349	973	1030
0.3	851	95	636 1	1126 1	183 7	706 1	1400	273 7	775 19	1597 3	385 8	832 1	1794 49	497 889	1931	31 607	7 932	2067	7 717	974	2256	891	1026	2348	1001	1053
0.4	797	100	687 10		192 7	751 1	1353	283 8	815 15	1555 3	397 8	869 1.	1757 5	511 922	1901	01 625	5 962	2044	4 738	1002	2 2248	3 919	1051	2347	1031	1077
0.5	752	114	737 10	1032 2	206 7	796 1	1312	298	855 1	1518 4	413 9	905 1	1724 5	528 955	5 1873	73 644	4 993	2021	1 760	1030) 2239	948	1078	2345	1061	1102
9.0	712	132	787 9	994 2	224 8	842 1	1275	316 8	896 14	1484 4	432 9	942 1	1692 54	548 988	1845	45 666	6 1024	1998	8 783	1059	9 2228	3 977	1104	!	1	:
0.7	678	155	836 9	960 2	246 8	886 1	1242	336 5	936 14	1452 4	452 9	979 1	1662 56	568 1021	21 1818	18 687	7 1055	5 1974	4 806	1088	3 2214	1004	1131	:	1	:
0.8	648	180	885 9	929 2	269	931 1	1210	358 6	976 14	1421 4	474 10	1016 1	1632 58	589 1055	55 1790	90 709	9 1086	3 1948	8 828	3 1117	7 2195	1028	1158	:	1 1	:
6.0	621	207	933 8	900 2	294 8	974 1	1179	381 1	1015 13	1390 4	495 10	1051 1	1600 60	609 1087	87 1760	30 728	8 1117	7 1919	9 847	1146	3 2170	1049	1185	-		:
1.0	969	235	981 8	872 3	319 1	1017 1	1148	403 1	1053 13	1357 5	516 10	1086 1	1566 62	628 1119	19 1725	25 746	6 1147	7 1884	4 864	1174	1 2139	1066	1212	-		
1.1	1 1	-		!	-		1115	424 1	1090 13	1322 5	534 11	1120 1	1528 6	643 1150	50 1686	36 760	0 1176	3 1844	4 876	1201	1 2100	1078	1238	-	1 1	:
1.2	1 1	1	-	1	-		1080	443 1	1126 12	1283 5	549 11	1153 1	1485 6	655 1180	30 1641	41 770	0 1204	4 1797	7 884	1228	3 2052	1083	1264	1	1 1	:
1.3	1	1	-				1040	458 1	1161 12	1238 5	561 11	1185 1	1436 66	663 1209	09 1589	39 775	5 1231	1742	2 886	1253	3 1993	1081	1288	1	1	:
1.4) 	966	469 1	1194 17	1189 5	567 12	1215 13	1381 66	665 1236	36 1530	30 773	3 1257	7 1678	8 881	1277	7 1923	3 1071	1311			
HORIZONTAL	JTAL																									
External											Per	centaç	ye of To	Percentage of Total Motor Torque	tor Tor	anb.										
Static		20%		ຕ	30%			40%		2	20%		9	%09		%02	%		80%	,0		%06			100%	
Press. in. w.g.	Cfm	Watts	RPM	Cfm W	Watts R	RPM	Cfm	Watts R	RPM	Cfm W	Watts R	RPM	Cfm Wa	Watts RPM	M Cfm	m Watts	ts RPM	⊿ Cfm	n Watts	ts RPM	Cfm	Watts	RPM	Cfm	Watts	RPM
0	1087	111	493 13	1304 1	184	579 1	1520	257 6	665 16	1689		738 1	1857 47	478 810	0 1972	72 588	8 864	. 2087	7 698	918	2196	844	975	2283	925	1000
0.1	1021	104	537 12	1246 1	180 6	618 1	1470	255 6	699 16	1646 3	Н	768 1	1821 48	480 837	7 1941	41 592	2 888	2061	1 704	938	2179	9 852	992	2255	926	1017
0.2	961	\dashv	\dashv		\dashv	\dashv	_	259 7	\rightarrow	_	-			487 864		14 601	\dashv	\dashv	9 714		2163	3 864	1012	2231	932	1034
0.3	906	\dashv	\neg	\dashv	\dashv	\dashv	\dashv	\dashv	\dashv	_	\dashv	_	_	\dashv	\dashv		\dashv	\neg	_	\dashv	_	_	1033	2209	941	1053
0.4	855	113	674 1	1101	196 7	740 1	1347	278 8	806 1		396 8	864 1.	1732 5	513 921	1866	36 629	9 965	1999	9 744	1008	3 2134		1054	1	1 1	-
0.5	808	125	720 10		209 7	781 1		293 ε	842 1	1509 4	\dashv	896 1.	\rightarrow	530 950	\dashv			_	0 762	1033	3 2119	915	1077	:	1 1	:
9.0	764	\dashv			\dashv		\rightarrow	\dashv		1481 4	\dashv	930 1	1682 54	549 980	\dashv	21 666	6 1019	_	0 782	1058	3 2102	935	1101	!	1 1	!
7.0	722	\dashv	812 9	-	242 8	864 1	1247		916 14	1452 4	449 9		1657 56	569 1011	11 1799	989 66	0 1048	3 1940	0 803	1084	1 2084	1 955	1125	:	1	:
0.8	682	172	858 6		260 9	906 1		348 6	953 14		469 9	997 1	1632 58	589 1041	41 1776	202 92	6 1076	3 1919	9 823	1111	2063	3 974	1150			
6.0	643	191	903 6	914 2	279 6	946 1	1185	367 6	989 13	1396 4	489 10	1030 10	1606 6	610 1071	71 1751	51 727	7 1104	4 1895	5 843	1137	7 2039	9 992	1175			
1.0							1153	386 1	1024 13	1366 5	-	1062 1		629 1100	00 1724	24 745	5 1132	2 1869	9 861	1163	3 2011	1008	1201			
<u>+</u>	1 1	!	-	' !	:	:		\neg				1095 1					_	_		-	_	1021	1226	!	1	:
1.2	1			-		-	1085	420 1	1093 13	1300 5	541 11	1126 1	1515 66	661 1158	58 1660	30 775	5 1186	3 1805	5 889	1214	1 1941	1031	1250			
1.3	1 1 1						1047	433 1	1126 12	1263 5	553 11	1156 1	1478 67	672 1186	36 1622	22 785	5 1213	3 1766	868 9	1239	1897	1037	1275			:
1.4					:		1005	442 1	1158 12	1221 5	561 11	1185 1	1436 68	680 1212	12 1579	79 792	2 1238	3 1721	1 903	1263	3 1847	1037	1298	-		

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 (in. 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

CEILING DIFFUSE	R AIR THROW DATA	
Air Volume - cfm	¹ Effective	Throw - ft.
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 DATA	3 TON
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	Model No.		LGT036H4					
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	FI (amps)	15	15	15				
Indoor Blower	Horsepower	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 No.		LGT048H4	
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 115\	/ GFI (amps)	15	15	15
Indoor Blower	Horsepower	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 TON

	Model No.	LGT060H4					
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 115V	GFI (amps)	15	15	15			
Indoor Blower	Horsepower	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 Ampacity (MCA)	With (1) 0.33 HP Power Exhaust	42	31	15			

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 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.

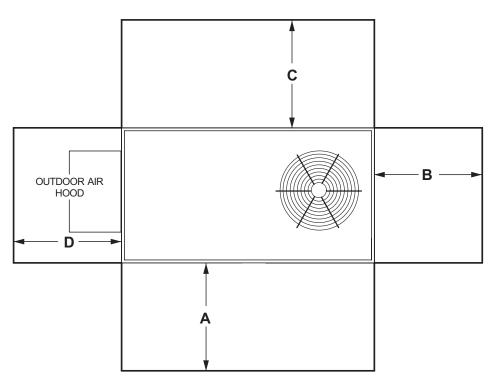
OUTDOOR SOUND DATA								
Octave Band Sound Power Levels dBA, re 10 ⁻¹² Watts Center Frequency - Hz								¹ Sound Rating
Model No.	125	250	500	1000	2000	4000	8000	Number dBA
036, 048	63	66	70	71	68	62	53	75
060	67	72	77	76	73	68	61	82

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

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

		Shipping	g Weight
		lbs.	kg
ECONOMIZER / OUTDOOR AIR / EXHAUST	·		
Economizer			
Economizer, Includes Combination Outdoor Air Ho	od and Barometric Relief Dampers	131	59
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 (Net Weight)		27	12



¹ Unit Clearance	Α		В		С		D		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	

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

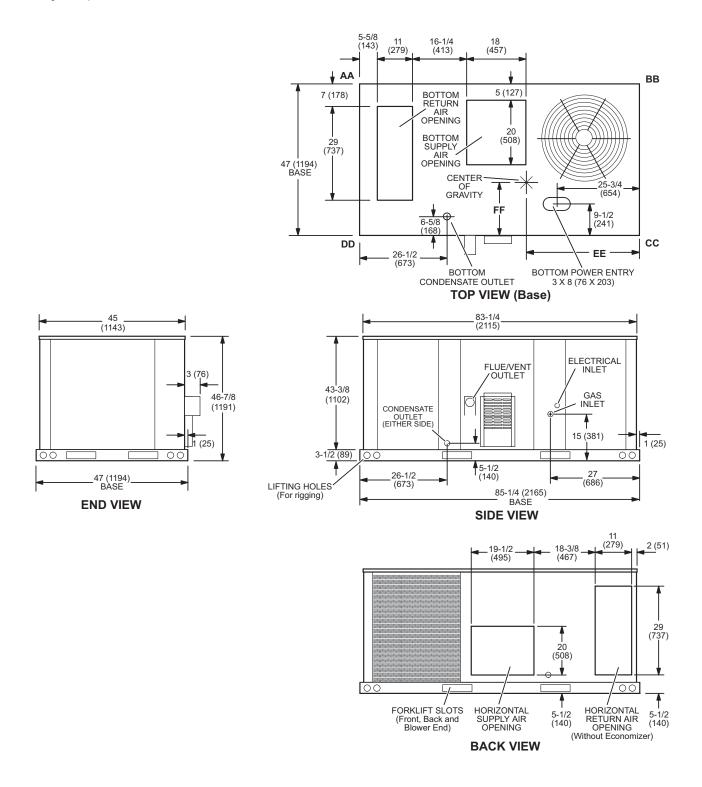
Service Clearance - Required for removal of serviceable parts.
Clearance to Combustibles - Required clearance to combustible material.
Minimum Operation Clearance - Required clearance for proper unit operation.

DIMENSIONS												ONT
CORNER WEIGHTS									CENTE	R OF GR	AVITY	
Model No.	Α	Α	В	В	С	C	D	D	E	E	F	F
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
LGT036 Base Unit	131	59	161	73	220	100	179	81	38-1/4	972	19-7/8	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	161	73	220	100	179	81	38-1/4	972	19-7/8	505
LGT048 Max. Unit	169	77	207	94	283	128	230	104	39-3/4	1010	19-7/8	505
LGT060 Base Unit	131	59	161	73	220	100	179	81	38-1/4	972	19-7/8	505
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.

DIMENSIONS

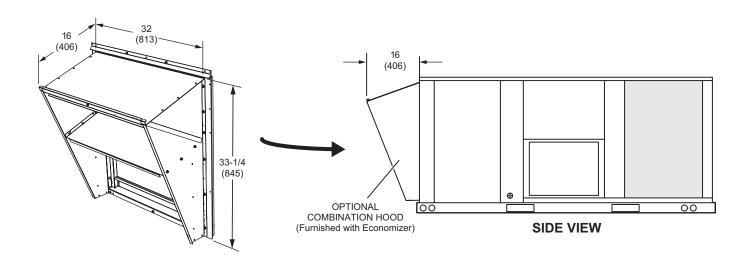
Max. Unit - The unit with ALL INTERNAL OPTIONS Installed. (Economizer, Standard Static Power Exhaust Fans, Controls, etc.). Does not include accessories external to unit or high static power exhaust.



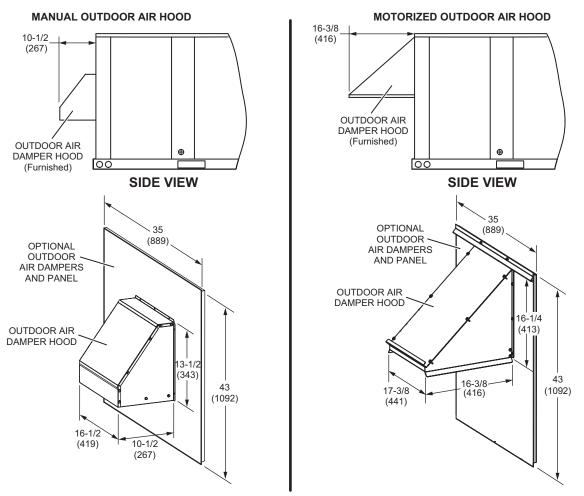
HINIT

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

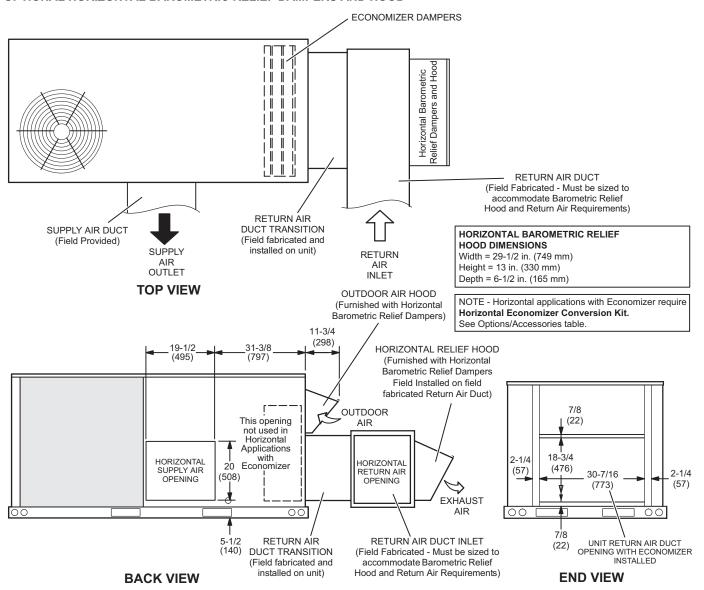
(Furnished With Economizer for Downflow Applications)



OUTDOOR AIR DAMPER HOOD DETAIL (Downflow or Horizontal Applications)

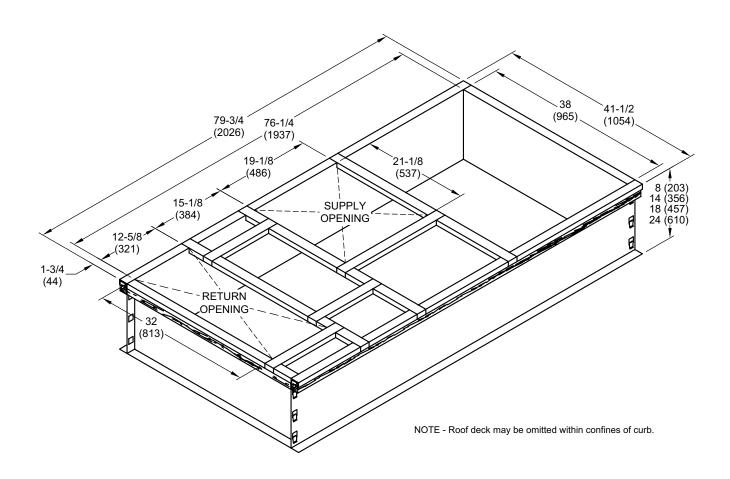


HORIZONTAL ECONOMIZER APPLICATIONS - OUTDOOR AIR HOOD DETAIL WITH OPTIONAL ECONOMIZER DAMPERS AND OPTIONAL HORIZONTAL BAROMETRIC RELIEF DAMPERS AND HOOD

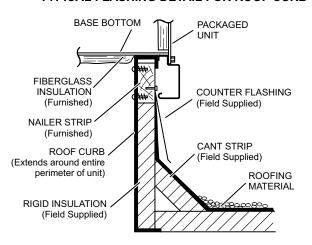


NOTE - Return Air Duct and Transition must be supported.

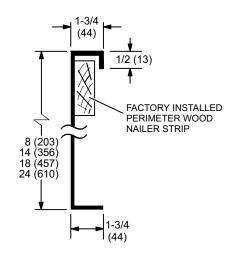
HYBRID ROOF CURBS - DOUBLE DUCT OPENING



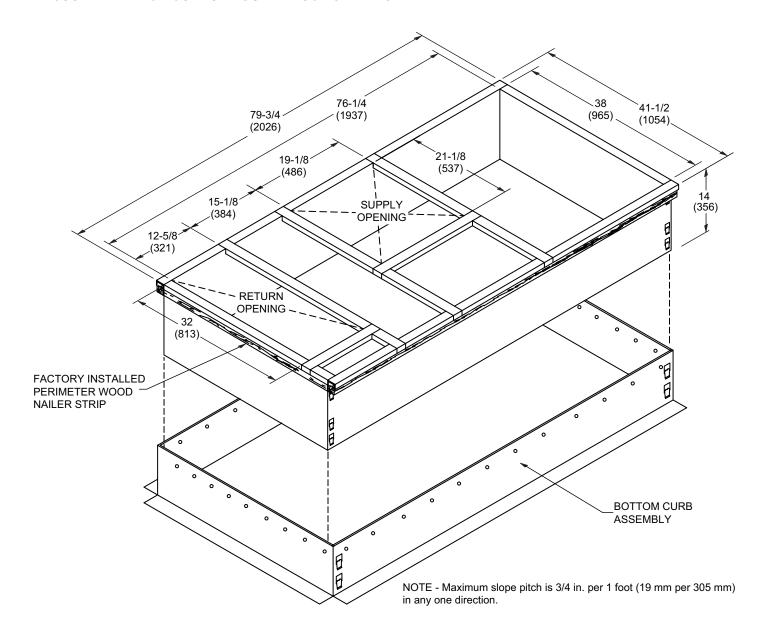
TYPICAL FLASHING DETAIL FOR ROOF CURB



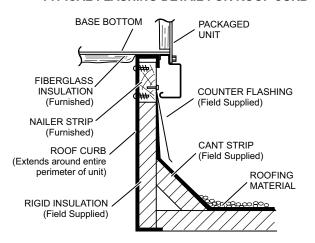
DETAIL ROOF CURB



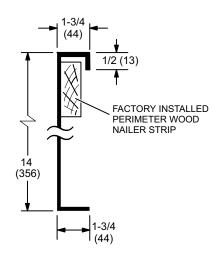
ADJUSTABLE PITCH CURBS - DOUBLE DUCT OPENING

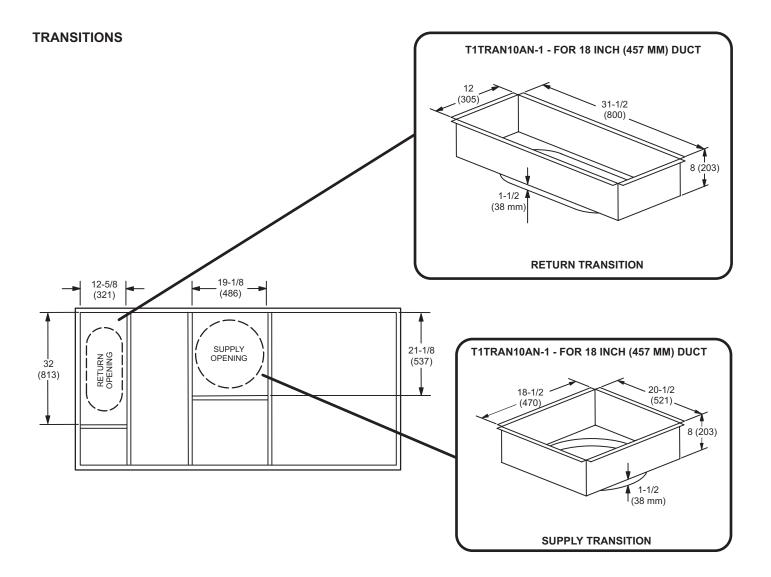


TYPICAL FLASHING DETAIL FOR ROOF CURB



DETAIL ROOF CURB



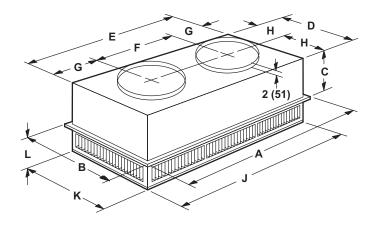


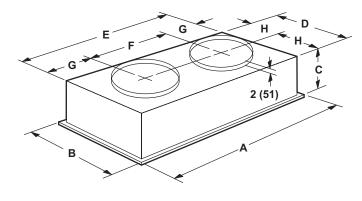
DIMENSIONS - ACCESSORIES

COMBINATION CEILING SUPPLY AND RETURN DIFFUSERS

STEP-DOWN CEILING DIFFUSER

FLUSH CEILING DIFFUSER





Model Nu	ımber	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 Nu	mber	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			
Optional Conventional Temperature Control Systems	Removed discontinued Wireless Sensors and Repeater.			















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