ENLIGHT ROOFTOP UNITS

APPLICATION FLEXIBILITY, INTELLIGENT OPERATION.

LENNOX

COMMERCIAL SOLUTIONS

THE ENLIGHT ROOFTOP SERIES DELIVERS ON ALL FRONTS.

At Lennox, we are dedicated to delivering innovative solutions that maximize energy savings and reduce operating costs. Our Enlight high-efficiency rooftop units are equipped with the advanced Lennox CORE Unit Controller, seamlessly integrating with the CORE Service App to enhance performance, installation, and service efficiency. Additionally, a wide range of CTO options ensures maximum flexibility and performance for any application. Designed for both sustainability and industry-leading serviceability, the Enlight family is helping to shape a smarter, more efficient future.

APPLICATION FLEXIBILITY, INTELLIGENT OPERATION

Enlight rooftop units are powered by the Lennox® CORE Control System and create a bright future through their 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.

APPLICATION FLEXIBILITY

The Enlight lineup gives you the flexibility to configure the product to your exact application.

- **Comprehensive product line** consisting of 3-30 ton gas-electric and electric-electric, and 3-25 ton heat pump and dual fuel heat pump models makes Enlight your go to brand
- **Configure to order options** tailor the unit to your application requirements reducing installation time
- **Configurable Parameters** on the CORE Unit Controller allow tailored unit operation, enabling optimal comfort and efficiency for every application

SUSTAINABLE BY DESIGN

The Enlight family was engineered to minimize environmental impact through exceptional efficiency and a sustainable design.

- **Energy-saving efficiency ratings** of up to 13.5 EER2, 17.5 SEER2, and 17.3 IEER which qualifies for energy rebates and incentives, making it easier for your organization to meet your financial and sustainability goals
- **Environ™ Coil System**** contains up to 52% less refrigerant and is up to 59% lighter than traditional coil systems reducing the overall environmental impact
- **Standard MSAV® supply fan technology** can provide up to 75% fan power savings* while improving comfort

ENGINEERED INTELLIGENCE

The Lennox® CORE Control System delivers connected service, open integration, reliable performance, and efficiency optimization to empower all parts of your organization.

- **Diagnostics and sensor system** monitors component performance, tracks capacity and efficiency, and alerts when necessary, enabling smart asset management
- **Mobile App Interface** provides intuitive guided setup, reports, and parameter adjustment to optimize unit operation
- **Open integration and control** with standard BACnet® IP & MS/TP, LonTalk®, thermostats, and wireless sensors allows freedom of choice, custom monitoring, and control

SIMPLE SERVICE

Enlight rooftop units maximize efficiency of maintenance and service operations, reducing operational costs, and minimizing downtime.

- **Mobile app interface** integrates diagnostic, test, and troubleshooting functionalities, reducing install times over traditional built-in interfaces
- **DirectPlus™ blower** standard up to 12.5 tons eliminates traditional belt drive maintenance and service costs
- **The Simple Service System™** offers tool-less filter access, slide-out blower, isolated compressor compartment, and accessible heating compartment which further reduce service time

*At 55% airflow when compared to full load.   **Available on Gas/Electric and Electric/Electric models only.

ENLIGHT ROOFTOP UNIT

❶ Isolated Compressor Compartment   ❷ Independent Refrigeration Circuits   ❸ Open Integration with Standard BACnet® IP and MS/TP   ❹ DirectPlus™ Blower System
(available 3-12.5 tons) [item is not shown]   ❺ Accessible Heating Compartment   ❻ Tool-less Filter Access   ❼ Lennox® CORE Unit Controller   ❽ Variable Speed Outdoor Fans
❾ Refrigerant Detection System
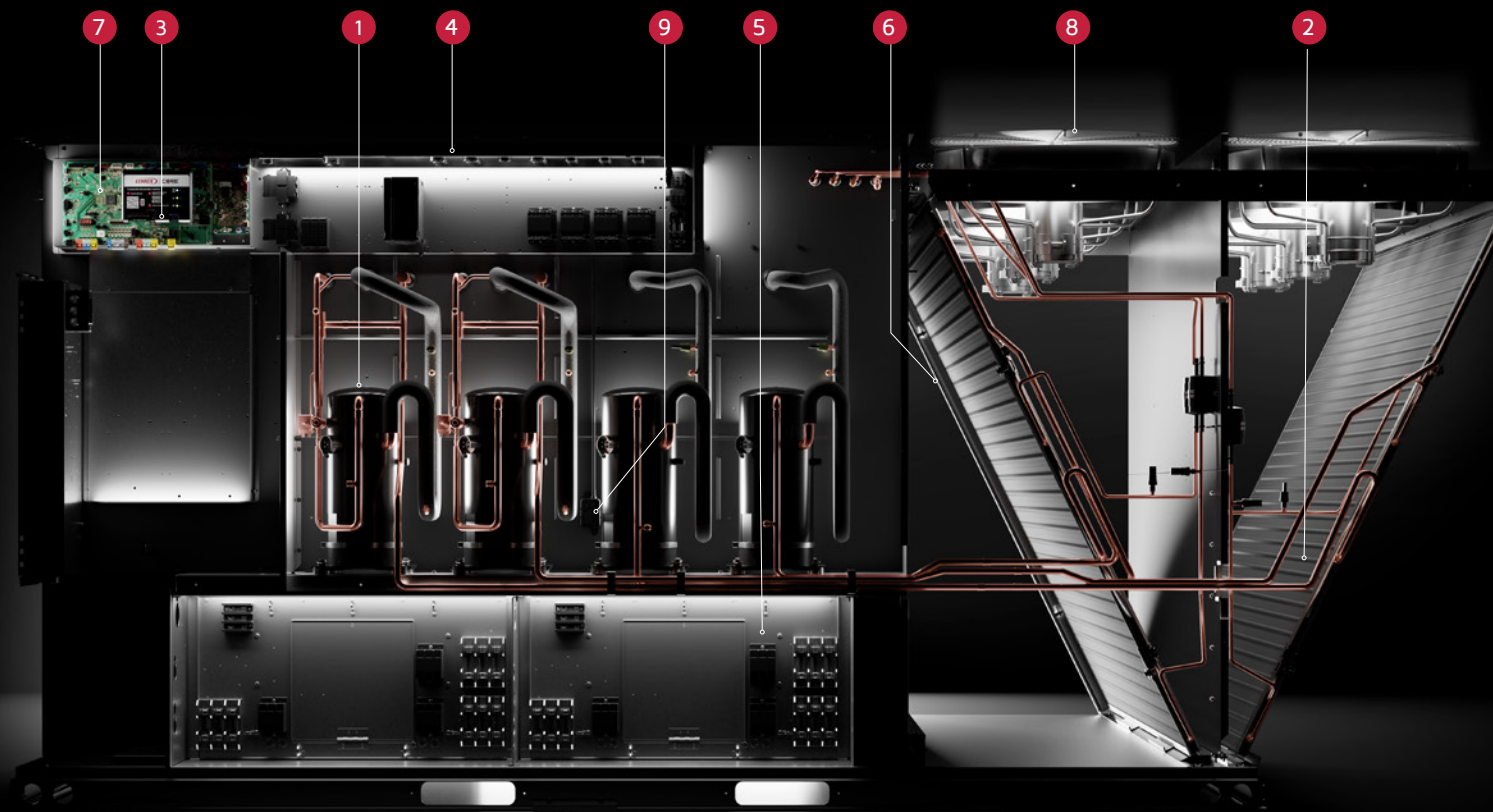
ENLIGHT HIGHLIGHTS
3– to 30–ton gas/electric and electric/electric units • 3- to 25-ton heat pump and dual-fuel units

Up to 13.5 EER2, 17.5 SEER2, and 17.3 IEER	The CORE Unit Controller revolutionizes the service experience with guided setup, detailed reports and actionable alerts	MSAV® supply fan technology achieves up to 75% fan power savings	Environ™ coil system maximizes reliability and sustainability*	Improved comfort with the Humiditrol® dehumidification system*	Extensive factory options and accessories are available

*Available on gas/electric and electric/electric models only.
*Heat Pump model shown*

The Lennox® CORE Control System on Enlight rooftop units is comprised of the easy-to-use Lennox® CORE Lite Unit Controller and the intuitive CORE Service App.

The CORE Unit Controller openly integrates with multiple control types, extends unit lifetime by reliably operating system components, and optimizes unit efficiency through built-in algorithms, creating ideal space conditions with ease. The CORE Service App provides a better installation and service experience through intuitive guided setup, simplified troubleshooting with, and advanced diagnostic capabilities, reducing installation and service costs.

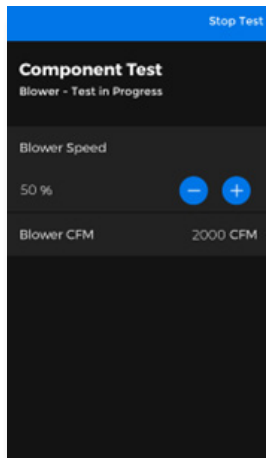ENLIGHT

THE LENNOX® CORE SERVICE APP

MAKES SERVICING SIMPLE

The Lennox® CORE Service App replaces a traditional built-in user interface on the CORE Unit Controller and provides guided setup for install, test and balance, and network integration. Reports that detail runtimes and service history can be exported from the app. The app also facilitates seamless commissioning of sensors and sensor networks compatible with the CORE Control System.
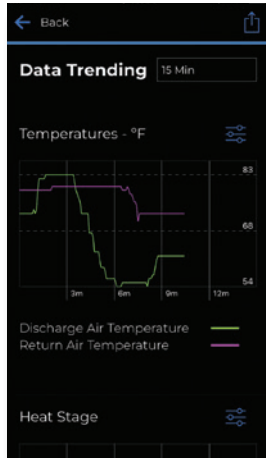
REAL-TIME DATA READOUTS

Enhanced test functionality provides real-time sensor readings, data trending and reports that enable easy troubleshooting.

GUIDED SETUP

Guided setup with progress indicators, detailed help and exportable summaries drives simple and trouble-free setup, reducing commissioning times over similar systems.
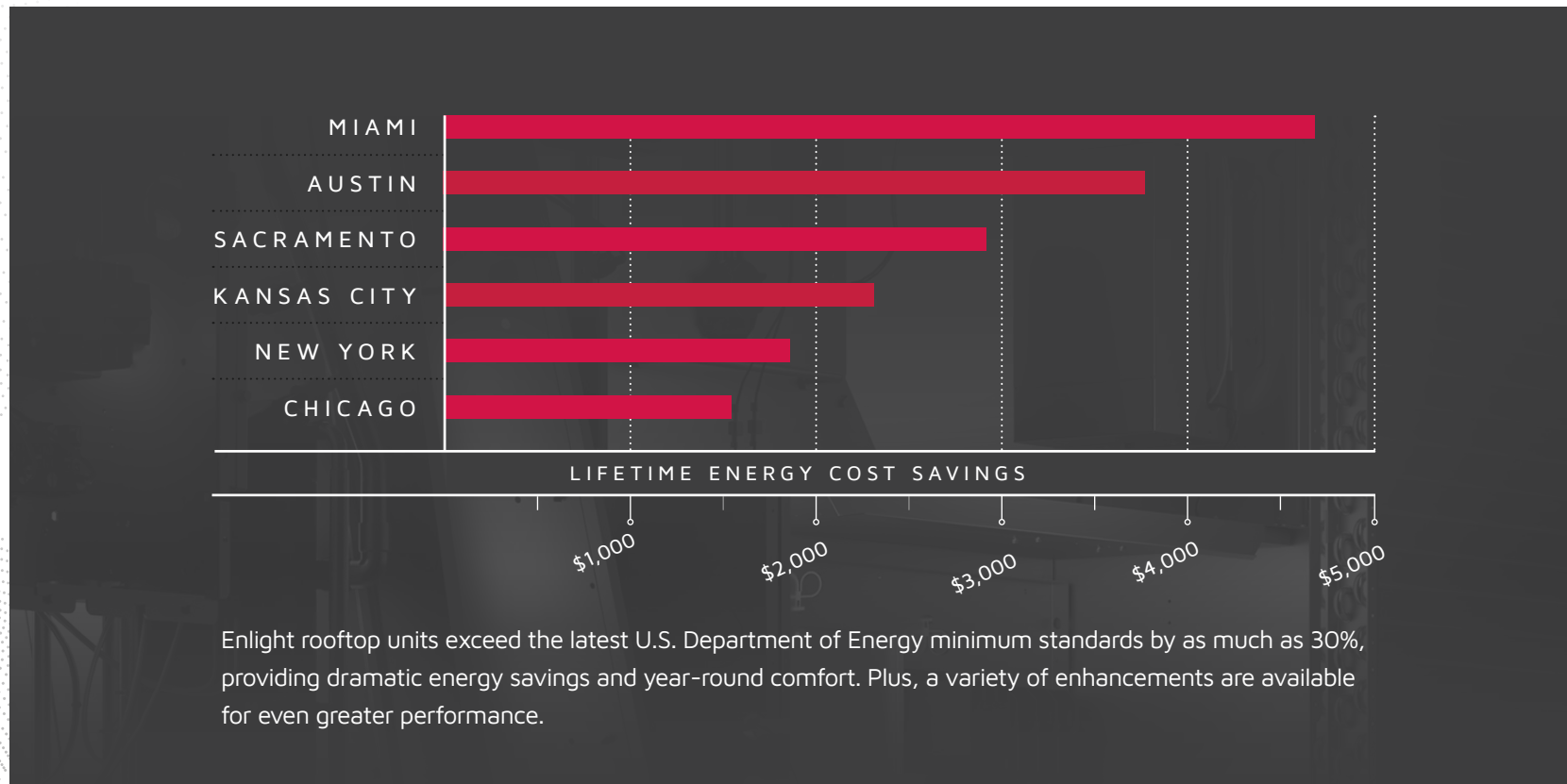
EFFICIENT BY DESIGN

Each Enlight rooftop unit is engineered with features designed to keep maintenance low and performance high.

• Environ coil system maximizes reliability and sustainability

• Helps buildings qualify for the most LEED® points

3-TON EXAMPLE SAVINGS*

LIFETIME ENERGY COST SAVINGS

Miami, Austin, Sacramento, Kansas City, New York, Chicago — $1,000 to $5,000 axis

Enlight rooftop units exceed the latest U.S. Department of Energy minimum standards by as much as 30%, providing dramatic energy savings and year-round comfort. Plus, a variety of enhancements are available for even greater performance.

• 15-Year Limited Warranty** on stainless steel gas heat exchanger

• 10-Year Limited Warranty** on aluminized gas heat exchanger

• 5-Year Limited Warranty** on compressor

• 3-Year Limited Warranty** on Lennox® CORE unit controller

• 3-Year Limited Warranty** on Environ coil system

• 1-Year Limited Warranty** on covered components

*Calculations based on Lennox' Total Cost of Ownership™ calculator, comparing 3-ton 17.5 SEER2 (13.5 EER2) unit to a 3-ton 13 SEER (10.7 EER) unit at a retail facility (under 25,000 square feet) and a 10:00 a.m. to 10:00 p.m. operating schedule. Lifetime energy cost savings are calculated by multiplying annual energy costs by 15 years. Actual savings may vary depending on system settings, equipment maintenance, local weather, construction, installation of equipment, duct system, hours of operation, local fuel rates and other factors. This information is intended as an example for comparison purposes only.

**See warranty certificate for actual details.

INDUSTRY LEADING TECHNOLOGIES

PATENTED DEHUMIDIFICATION TECHNOLOGIES

An optional Humiditrol® dehumidification system removes moisture based on humidity requirements, not temperature, for a more comfortable indoor environment.

MIXED INDOOR/OUTDOOR AIR

EVAPORATOR COIL

REHEAT COIL

THERMAL EXPANSION VALVE

COOL/ DEHUMIDIFIED AIR

"NEUTRAL" DEHUMIDIFIED AIR

COMPRESSOR

CHECK VALVE

CONDENSER COIL

REHEAT VALVE

OUTDOOR AIR
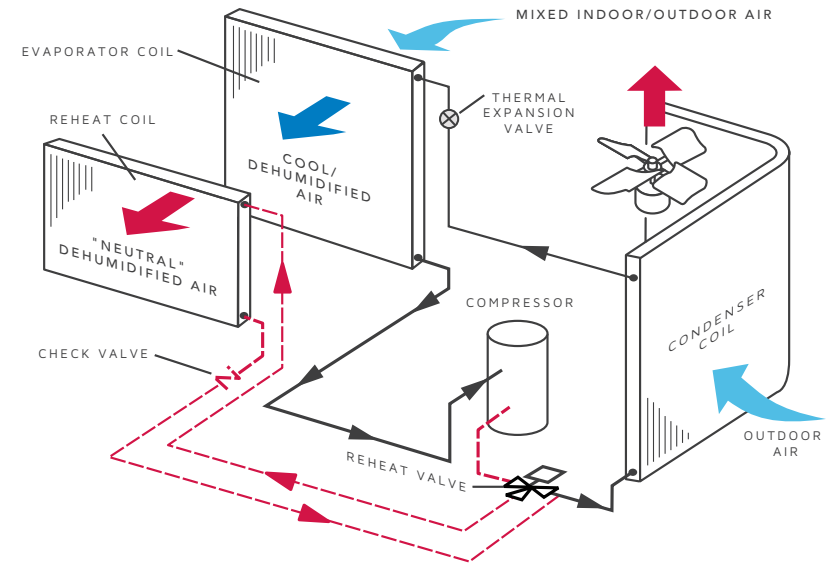
MSAV® TECHNOLOGY

MSAV® provides significant year-round savings and lower monthly utility costs without compromising on comfort. With up to seven different airflow settings, the MSAV supply fan can easily adjust its speed in response to changing weather conditions, allowing the unit to operate at optimum efficiency.
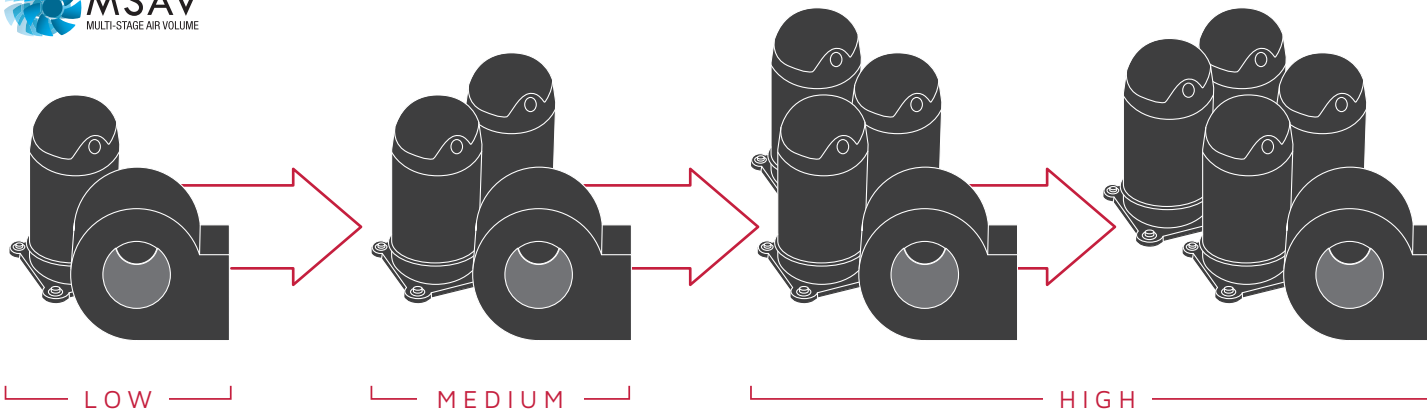
- MSAV comes as standard on Enlight rooftop units
- Reduced energy consumption: Up to 75% supply fan power savings*
- Improved part-load efficiency: Up to 21%% IEER improvement**
- Improved indoor comfort: Up to 29% better moisture removal**

MSAV®
MULTI-STAGE AIR VOLUME

LOW — MEDIUM — HIGH

 * At 67% airflow when compared to full load.
** At 55% airflow when compared to full load

ENLIGHT

COOLING	
Metering Device	TXV
Indoor Coil Freeze Protection	Standard
High-Pressure Switch	Standard
Low-Pressure Switch	Standard
Filter Driers	Standard
Corrosion Protection	Factory
Condensate Drain Trap	Field
Drain Pan Overflow Switch	Factory, Field
HEATING	
Bottom Gas Piping Kit	Field
Low-Temp Vestibule Heater	Field
LPG/Propane Conversion Kit	Field
Stainless Steel Heat Exchanger	Factory
BLOWER/SUPPLY AIR	
MSAV® (Multi-Stage Air Volume)	Standard
VAV (Variable Air Volume)	Factory (7.5-30 Ton GE/EE Models)
VFD Bypass for MSAV	Factory
CABINET	
Hinged Panels	Standard
Coil/Hail Guards	Factory, Field
CONTROLS	
Lennox® CORE Unit Controller	Standard
Blower Proving	Standard
Dirty Filter Switch	Factory, Field
BACnet® IP and MS/TP	Standard
LonTalk® Gateway	Factory, Field
INDOOR AIR QUALITY	
High-Efficiency Filters	Factory, Field
UVC Germicidal Light Kit	Factory, Field
Humiditrol® Dehumidification System	Factory
Demand Control Ventilation Ready	Standard
ELECTRICAL	
HACR Circuit Breakers	Factory, Field
Phase/Voltage Detection	Factory (3-6 Ton), Standard (6.5-30 Ton)
Disconnect Switch	Factory, Field
GFI Service Outlet	Factory, Field
OUTDOOR AIR CONTROLS	
High-Performance Economizer	Factory, Field
Differential Enthalpy Control	Factory, Field
Sensible Control	Factory, Field
Single Enthalpy Control	Factory, Field
Global Control	Factory, Field
Barometric Relief Dampers	Factory, Field
Motorized Outdoor Air Damper	Factory, Field
Manual Outdoor Air Damper	Field
Power Exhaust	Factory, Field
Fresh-Air Tempering	Factory, Field

ENLIGHT HIGH-EFFICIENCY ROOFTOP UNIT R-454B PERFORMANCE SPECIFICATIONS

| TYPE | NOMINAL TONNAGE | MODEL | COOLING DATA | | GAS HEATING INPUTS (KBTUH) | | | | PHYSICAL DATA | |
			EER	SEER2 OR IEER	LOW	STD.	MED.	HIGH	DIMENSIONS H X W X L [INCHES]	BASE WT. [LBS.]
GAS/ELECTRIC	3	LGT036H5E	13.5	17.5	—	65	108	—	47 x 47 x 86	630
	4	LGT048H5E	13.0	17.3	—	65	108	150	47 x 47 x 86	629
	5	LGT060H5E	12.5	16.4	—	65	108	150	47 x 47 x 86	630
	6	LGT072H5E	12.2	17.3	—	65	108	150	47 x 47 x 86	630
	7.5	LGT092H5(E,P)	12.3	16.1 MSAV, 15.7 VAV	—	130	180	240	47 x 61 x 102	1,088
	8.5	LGT102H5(E,P)	12.1	16.1 MSAV, 15.7 VAV	—	130	180	240	47 x 61 x 102	1,095
	10	LGT120H5(E,P)	12.1	16.1 MSAV, 15.7 VAV	—	130	180	240	47 x 61 x 102	1,100
	12.5	LGT150H5(E,P)	10.8	15.4 MSAV, 14.6 VAV	—	130	180	240	47 x 61 x 102	1,120
	13	LGT156H5(M,V)	12.0	15.4 MSAV, 15 VAV	169	260	360	—	55 x 92 x 104	2,014
	15	LGT180H5(M,V)	12.0	15.4 MSAV, 15.0 VAV	169	260	360	480	55 x 92 x 133	2,128
	17.5	LGT210H5(M,V)	12.0	16.0 MSAV, 15.5 VAV	169	260	360	480	55 x 92 x 133	2,569
	20	LGT240H5(M,V)	12.0	15.4 MSAV, 15 VAV	—	260	360	480	55 x 92 x 133	2,601
	25	LGT300H5(M,V)	10.6	14.3 MSAV, 14.0 VAV	—	260	360	480	55 x 92 x 133	2,651
	25	LGT302H5(M,V)	11.2	15.6 MSAV, 14.3 VAV	—	260	360	480	65 x 91 x 145	3,107
	30	LGT360H5(M,V)	10.5	14.0 MSAV, 13.5 VAV	—	260	360	480	65 x 91 x 145	3,107

TYPE	NOMINAL TONNAGE	MODEL	EER	SEER2 OR IEER	ELECTRIC HEAT SIZES – [KW]	DIMENSIONS H X W X L [INCHES]	BASE WT. [LBS.]
ELECTRIC/ELECTRIC	3	LCT036H5E	13.5	17.5	7.5, 15	47 x 47 x 86	594
	4	LCT048H5E	13.0	17.3	7.5, 15	47 x 47 x 86	593
	5	LCT060H5E	12.5	16.4	7.5, 15, 22.5	47 x 47 x 86	594
	6	LCT072H5E	12.2	17.3	7.5, 15, 22.5, 30	47 x 47 x 86	594
	7.5	LCT092H5(E,P)	12.5	16.3 MSAV, 14.0 VAV	7.5, 15, 22.5, 30, 45	47 x 61 x 102	1,040
	8.5	LCT102H5(E,P)	12.3	16.3 MSAV , 15.7 VAV	7.5, 15, 22.5, 30, 45	47 x 61 x 102	1,047
	10	LCT120H5(E,P)	12.2	16.3 MSAV, 15.7 VAV	15, 22.5, 30, 45, 60	47 x 61 x 102	1,052
	12.5	LCT150H5(E,P)	11.0	15.4 MSAV, 14.6 VAV	15, 22.5, 30, 45, 60	47 x 61 x 102	1,072
	13	LCT156H5(M,V)	12.2	15.6 MSAV, 15.2 VAV	15, 30, 45, 60	55 x 92 x 104	1,864
	15	LCT180H5(M,V)	12.2	15.6 MSAV, 15.2 VAV	15, 30, 45, 60	55 x 92 x 133	1,978
	17.5	LCT210H5(M,V)	12.2	16.2 MSAV, 15.7 VAV	15, 30, 45, 60, 90	55 x 92 x 133	2,424
	20	LCT240H5(M,V)	12.2	15.6 MSAV, 15.4 VAV	15, 30, 45, 60, 90	55 x 92 x 133	2,456
	25	LCT300H5(M,V)	10.8	14.5 MSAV, 14.2 VAV	15, 30, 45, 60, 90	55 x 92 x 133	2,506
	25	LCT302H5(M,V)	11.4	15.8 MSAV, 14.3 VAV	30, 45, 60, 90	65 x 91 x 145	2,997
	30	LCT360H5(M,V)	10.8	14.2 MSAV, 13.5 VAV	30, 45, 60, 90	65 x 91 x 145	2,997

EN LIGHT

ENLIGHT HIGH-EFFICIENCY ROOFTOP UNIT R-454B PERFORMANCE SPECIFICATIONS

| TYPE | NOMINAL TONNAGE | MODEL | COOLING DATA | | HEATING PERFORMANCE | | | | PHYSICAL DATA | |
			EER (EER2*)	SEER2 OR IEER	HSPF2	COP 47°F	COP 17°F	ELECTRIC HEAT [KW]	DIMENSIONS H X W X L [INCHES]	BASE WT. [LBS.]
HEAT PUMP	3	LHT036H5E	12.2	16.0	7.2	—	—	7.5 - 15	47 x 47 x 86	645
	4	LHT048H5E	12.0	15.6	7.2	—	—	7.5 - 15	47 x 47 x 86	641
	5	LHT060H5E	11.8	15.2	7.2	—	—	7.5 - 22.5	47 x 47 x 86	686
	6	LHT072H5E	11.0	15.5	—	3.5	2.5	7.5 - 30	47 x 47 x 86	686
	6.5	LHT078H5E	12.7	17.0	—	3.5	2.25	7.5 - 30	47 x 61 x 102	1,053
	7.5	LHT092H5E	12.3	16.8	—	3.5	2.25	7.5 - 45	47 x 61 x 102	1,073
	8.5	LHT102H5E	12.1	16.8	—	3.5	2.25	7.5 - 45	47 x 61 x 102	1,075
	10	LHT120H5E	12.0	16.6	—	3.5	2.25	15 - 60	47 x 61 x 102	1,075
	12.5	LHT152H5E	11.1	15.2	—	3.4	2.1	15 - 60	47 x 61 x 129	1,176
	13	LHT156H5M	12.1	15.4	—	3.4	2.1	15 - 60	55 x 92 x 133	2,198
	15	LHT180H5M	11.1	15.5	—	3.4	2.1	15 - 60	55 x 92 x 133	2,226
	20	LHT240H5M	11.1	15.5	—	3.4	2.1	15 - 90	65 x 91 x 145	2,268
	25	LHT302H5M	10.5	14.8	—	3.3	2.1	30 - 120	65 x 91 x 145	2,997

| TYPE	NOMINAL TONNAGE	MODEL	EER (EER2*)	SEER2 OR IEER	HSPF2	COP 47°F	COP 17°F	GAS HEAT [KBTUH]	DIMENSIONS H X W X L [INCHES]	BASE WT. [LBS.]
DUAL FUEL HEAT PUMP	3	LDT036H5E	12.2	16.0	7.2	—	—	65, 108	47 x 47 x 86	674
	4	LDT048H5E	12.0	15.6	7.2	—	—	65, 108, 150	47 x 47 x 86	670
	5	LDT060H5E	11.8	15.2	7.2	—	—	65, 108, 150	47 x 47 x 86	715
	6	LDT072H5E	11.0	15.5	—	3.5	2.25	65, 108, 150	47 x 47 x 86	715
	6.5	LDT078H5E	12.5	17.0	—	3.5	2.25	130, 180	47 x 61 x 102	1,101
	7.5	LDT092H5E	12.1	16.8	—	3.5	2.25	130, 180, 240	47 x 61 x 102	1,121
	8.5	LDT102H5E	11.9	16.8	—	3.5	2.25	130, 180, 240	47 x 61 x 102	1,123
	10	LDT120H5E	11.8	16.6	—	3.5	2.25	130, 180, 240	47 x 61 x 102	1,123
	12.5	LDT152H5E	10.9	15	—	3.35	2.1	130, 180, 240	47 x 61 x 129	1,224
	13	LDT156H5M	11.9	15.2	—	3.4	2.1	260, 360	55 x 92 x 133	2,358
	15	LDT180H5M	10.9	15.3	—	3.4	2.1	260, 360, 480	55 x 92 x 133	2,386
	20	LDT240H5M	10.9	15.3	—	3.4	2.1	260, 360, 480	55 x 92 x 133	2,428
	25	LDT302H5M	10.3	14.6	—	3.3	2.1	260, 360, 480	65 x 91 x 145	3,107

ENLIGHT

COMPLETE COMMERCIAL CLIMATE SOLUTIONS

Create your ideal building environment with the comprehensive Lennox Commercial portfolio. Each solution is engineered to optimize performance, energy-efficiency, serviceability and environmental impact. From Varix™ VRF Systems working alongside rooftop units to complete custom turnkey solutions, we'll help you find the perfect system for your needs.

Contact us to discuss your project and request a quote.
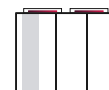Lennox.com/Commercial/Connect
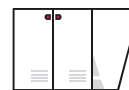
PACKAGED UNITS
Model L™, Enlight, Xion™, Raider®, LRP

VRF
Outdoor and Indoor Units, Controls, Accessories

SPLIT SYSTEMS
Elite® Series Large, Merit® Series Small, Air Handlers, Indoor Coils

COMMERCIAL CONTROLS
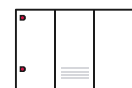Lennox® CORE Control System, Lennox Commercial Thermostats and Sensors

MINI-SPLIT SYSTEMS
Outdoor and Indoor Units, Controls, Accessories

HEATING
Unit Heaters, Furnaces, Duct Furnaces

INDOOR AIR QUALITY
Dehumidification, Filtration, Purification

EN LIGHT

WITH YOU EVERY STEP OF THE WAY

Get fast, direct access to commercial HVAC expertise and equipment—
straight from the source. Your Lennox team is here to help you be more
efficient, informed and effective at every stage of your projects.

LENNOX

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