

ENLIGHT ROOFTOP UNITS

APPLICATION FLEXIBILITY, INTELLIGENT OPERATION



ROOFTOP SERIES



ENLIGHT HIGH-EFFICIENCY ROOFTOP
UNITS FROM LENNOX COMMERCIAL



THE
ENLIGHT
ROOFTOP SERIES
DELIVERS
ON ALL FRONTS.

At Lennox, we're committed to building innovative products that save energy and reduce operating expenses. Enlight high-efficiency rooftop units feature the Lennox® CORE Unit Controller with a mobile service app which optimizes the unit performance and increases the efficiency of install and service operations, lowering the total cost of ownership. Plus, extensive CTO options maximize performance and flexibility for every need. With designs that are not only sustainable, but also the most service-friendly in the industry, the Enlight family is a big part of a brighter future.

APPLICATION FLEXIBILITY AND INTELLIGENT OPERATION

ENLIGHT

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.

- **Lennox® CORE Unit Controller** optimizes unit operation in real-time by processing advanced sensor inputs, maximizing energy efficiency and space comfort
- **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 and custom monitoring and control

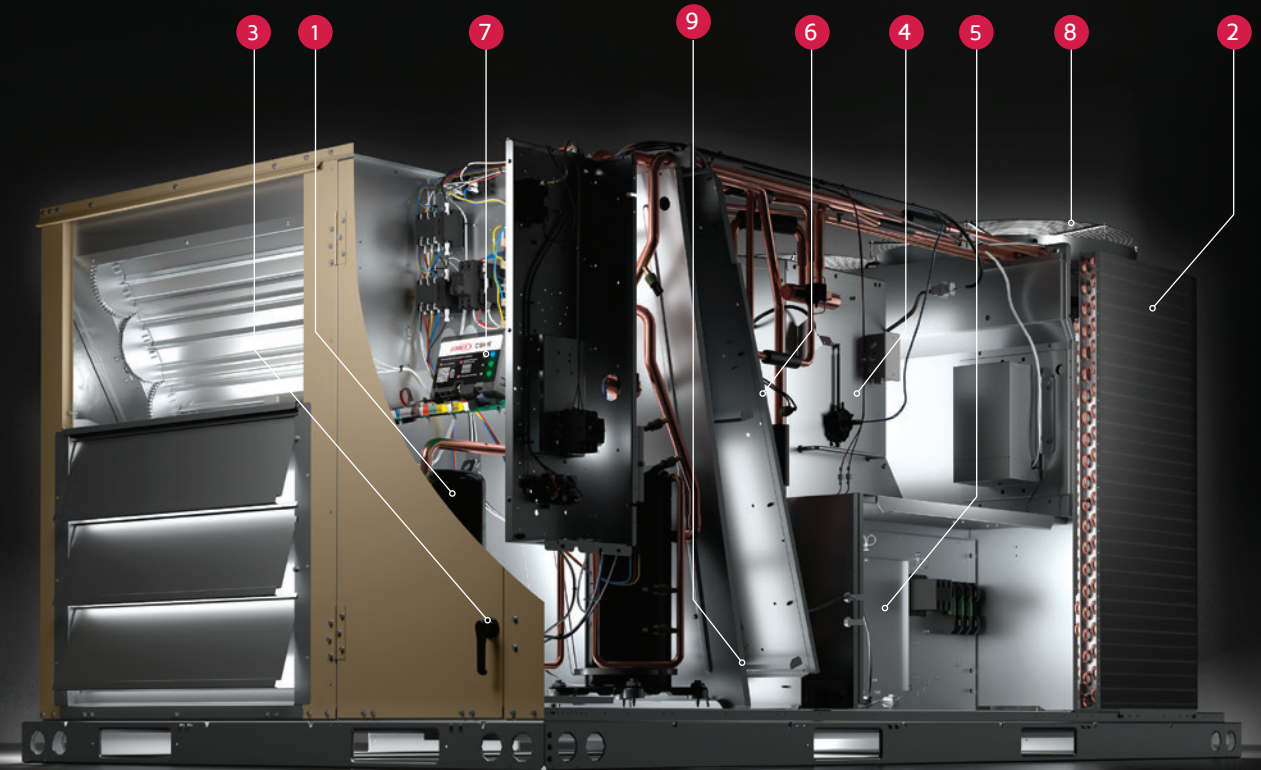


SIMPLE SERVICE

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
- **Direct drive 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

- 1 Isolated Compressor Compartment
- 2 Independent Refrigeration Circuits
- 3 Hinged Access Panels
- 4 DirectPlus™ Blower System
- 5 Accessible Heating Compartment
- 6 Tool-less Filter Access
- 7 CORE Unit Controller
- 8 Variable Speed Outdoor Fans
- 9 Refrigerant Detection System



Heat Pump model shown

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
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*Available on gas/electric and electric/electric models only.

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

LENNOX / CORE

Standard on Model L™ and Enlight Rooftop Units

The Lennox® CORE Control System, featuring the innovative CORE Unit Controllers and the intuitive CORE Service App, delivers connected service, open integration, reliable performance, and efficiency optimization of Lennox Rooftop Series units to empower all parts of your organization.

THE LENNOX® CORE SERVICE APP MAKES SERVICE 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 wireless sensors and sensor networks compatible with the CORE Control System.



CONNECTED SERVICE

The Lennox® CORE Service App reinvents the service process in the palm of your hand, making setup and service faster than ever before.

- Guided Setup with progress indicators, detailed help, and exportable summaries drives simple and trouble-free setup
- Enhanced Test Functionality provides real-time sensor readings, trending, and reports that enable easy troubleshooting
- Multiple Device Support for Android and iOS phones and tablets lets you experience the Lennox® CORE Service App on your preferred device



RELIABLE PERFORMANCE

The Lennox® CORE Control System provides key performance indicators and drives unit components simply and reliably.

- Intelligent operation optimizes comfort and unit reliability without complex configuration, saving time and delivering results
- Integrated Refrigerant Detection System (RDS) allows safe and reliable unit operation with R-454B refrigerant
- Configurable backup modes maintain unit operation and comfort during construction or external building control downtime



OPEN INTEGRATION

The Lennox® CORE Control System empowers customers to choose their building controls, allowing simple or tailored operation.

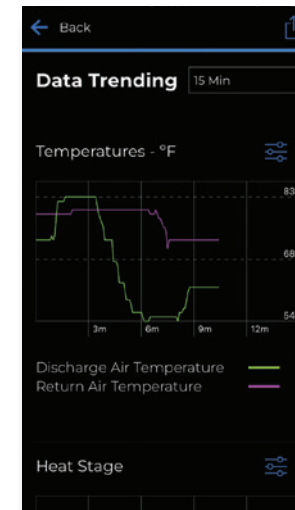
- Building Management Integration through standard network protocols such as BACnet and LonWorks® allows custom monitoring and control while maintaining backwards compatibility with legacy systems
- Multiple Control Options such as traditional thermostats, wired or wireless* room sensors, and BAS Integration provide operational flexibility now and in the future
- Device Encryption and Firmware Validation are engineered to Federal Information Processing Standard 140-2 guidelines



EFFICIENCY OPTIMIZATION

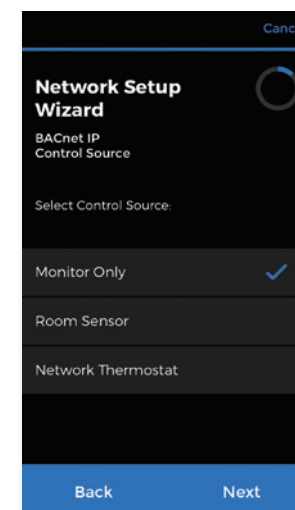
The Lennox® CORE Control System optimizes unit operation in real-time, maximizing energy efficiency and space comfort.

- Standard sensor package monitors key performance indicators of both the air and refrigeration systems to dynamically adjust system operation
- System diagnostics track efficiency and indicate specific component failures, maximizing unit performance and reducing downtime
- Configurable Parameters allow tailored unit operation, enabling optimal comfort and efficiency for every application



REAL-TIME DATA READOUTS

Enhanced test functionality provides real-time sensor readings, 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.

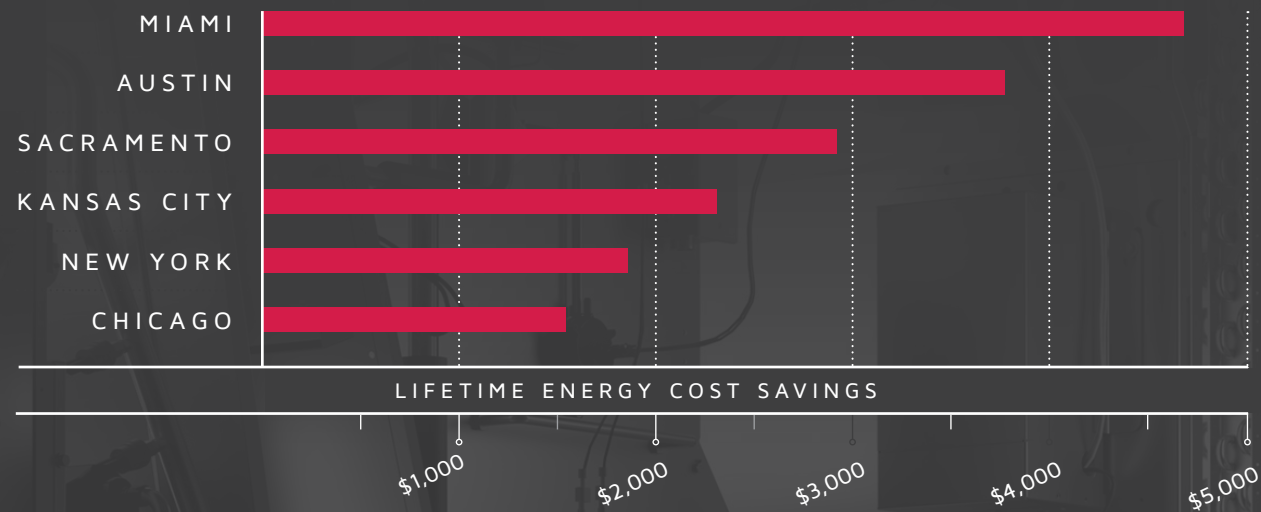


EFFICIENT BY DESIGN

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*



30%

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

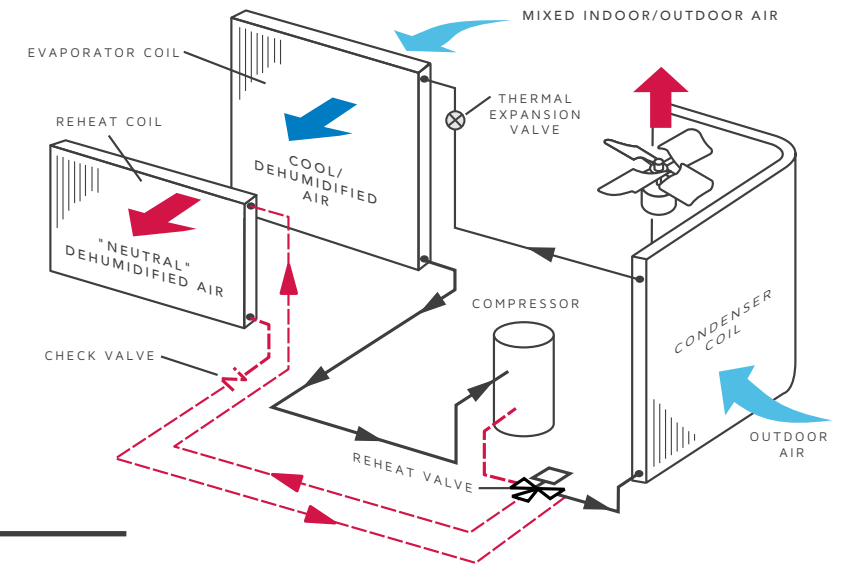
* Calculations based on Lennox' Total Cost of Ownership™ calculator, comparing 3-ton 17.5 SEER2 (13.5 EER2) unit to a 3-ton 13 SEER (10.7 EER) unit at a retail facility (under 25,000 square feet) and a 10:00 a.m. to 10:00 p.m. operating schedule. Lifetime energy cost savings are calculated by multiplying 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.

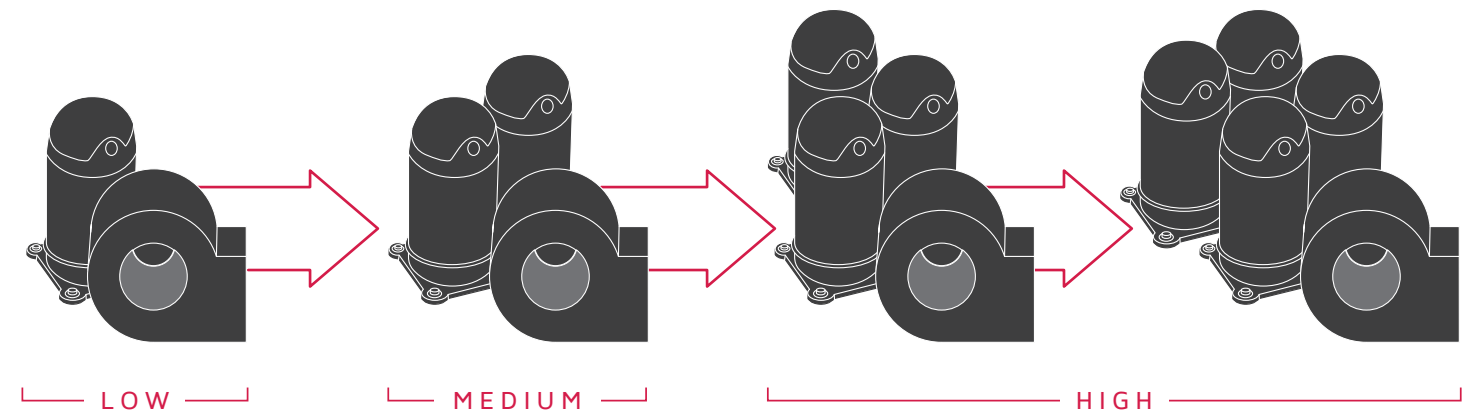


MSAV® TECHNOLOGY

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% IEEER improvement**
- Improved indoor comfort: Up to 29% better moisture removal**



* At 67% airflow when compared to full load.

** At 55% airflow when compared to full load

ENLIGHT ROOFTOP UNIT OPTIONS & ACCESSORIES

		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

			COOLING DATA		GAS HEATING INPUTS (KBTUH)				PHYSICAL DATA		
TYPE	NOMINAL TONNAGE	MODEL	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	N/A	65	108	N/A	47 x 47 x 86	630	
	4	LGT048H5E	13.0	17.3	N/A	65	108	150	47 x 47 x 86	629	
	5	LGT060H5E	12.5	16.4	N/A	65	108	150	47 x 47 x 86	630	
	6	LGT072H5E	12.2	17.3	N/A	65	108	150	47 x 47 x 86	630	
	7.5	LGT092H5(E,P)	12.3	16.1 MSAV 15.7 VAV	N/A	130	180	240	47 x 61 x 102	1,088	
	8.5	LGT102H5(E,P)	12.1	16.1 MSAV 15.7 VAV	N/A	130	180	240	47 x 61 x 102	1,095	
	10	LGT120H5(E,P)	12.1	16.1 MSAV 15.7 VAV	N/A	130	180	240	47 x 61 x 102	1,100	
	12.5	LGT150H5(E,P)	10.8	15.4 MSAV 14.6 VAV	N/A	130	180	240	47 x 61 x 102	1,120	
	13	LGT156H5(M,V)	12.0	15.4 MSAV 15 VAV	169	260	360	N/A	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	N/A	260	360	480	55 x 92 x 133	2,601	
	25	LGT300H5(M,V)	10.6	14.3 MSAV 14.0 VAV	N/A	260	360	480	55 x 92 x 133	2,651	
	25	LGT302H5(M,V)	11.2	15.6 MSAV 14.3 VAV	N/A	260	360	480	65 x 91 x 145	3,107	
	30	LGT360H5(M,V)	10.5	14.0 MSAV 13.5 VAV	N/A	260	360	480	65 x 91 x 145	3,107	
					ELECTRIC HEAT SIZES - [KW]						
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	
			COOLING DATA		HEATING PERFORMANCE			PHYSICAL DATA			
TYPE	NOMINAL TONNAGE	MODEL	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	N/A	3.5	2.5	7.5 - 30	47 x 47 x 86	686	
	6.5	LHT078H5E	12.7	17.0	N/A	3.5	2.25	7.5 - 30	47 x 61 x 102	1,053	
	7.5	LHT092H5E	12.3	16.8	N/A	3.5	2.25	7.5 - 45	47 x 61 x 102	1,073	
	8.5	LHT102H5E	12.1	16.8	N/A	3.5	2.25	7.5 - 45	47 x 61 x 102	1,075	
	10	LHT120H5E	12.0	16.6	N/A	3.5	2.25	15 - 60	47 x 61 x 102	1,075	
	12.5	LHT152H5E	11.1	15.2	N/A	3.4	2.1	15 - 60	47 x 61 x 129	1,176	
	13	LHT156H5M	12.1	15.4	N/A	3.4	2.1	15 - 60	55 x 92 x 133	2,198	
DUAL FUEL HEAT PUMP	15	LHT180H5M	11.1	15.5	N/A	3.4	2.1	15 - 60	55 x 92 x 133	2,226	
	20	LHT240H5M	11.1	15.5	N/A	3.4	2.1	15 - 90	65 x 91 x 145	2,268	
	25	LHT302H5M	10.5	14.8	N/A	3.3	2.1	30 - 120	65 x 91 x 145	2,997	
						HSPF2	COP 47°F	COP 17°F	GAS HEAT [KBTUH]		
	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	N/A	3.5	2.25	65, 108, 150	47 x 47 x 86	715
		6.5	LDT078H5E	12.5	17.0	N/A	3.5	2.25	130, 180	47 x 61 x 102	1,101
		7.5	LDT092H5E	12.1	16.8	N/A	3.5	2.25	130, 180, 240	47 x 61 x 102	1,121
8.5		LDT102H5E	11.9	16.8	N/A	3.5	2.25	130, 180, 240	47 x 61 x 102	1,123	
10		LDT120H5E	11.8	16.6	N/A	3.5	2.25	130, 180, 240	47 x 61 x 102	1,123	
12.5		LDT152H5E	10.9	15	N/A	3.35	2.1	130, 180, 240	47 x 61 x 129	1,224	
13		LDT156H5M	11.9	15.2	N/A	3.4	2.1	260, 360	55 x 92 x 133	2,358	
15	LDT180H5M	10.9	15.3	N/A	3.4	2.1	260, 360, 480	55 x 92 x 133	2,386		
20	LDT240H5M	10.9	15.3	N/A	3.4	2.1	260, 360, 480	55 x 92 x 133	2,428		
25	LDT302H5M	10.3	14.6	N/A	3.3	2.1	260, 360, 480	65 x 91 x 145	3,107		

BE A PART OF THE ROOFTOP
REVOLUTION
BY CONTACTING YOUR
SALES
REPRESENTATIVE
TODAY

To view the full commercial product lineup,
visit lennoxcommercial.com

