

COMMERCIAL
HVAC PRODUCT GUIDE



INDUSTRY-LEADING EFFICIENCY
AND INNOVATION TO MEET YOUR NEEDS







THE COMPLETE LINE OF LENNOX® COMMERCIAL PRODUCTS. EFFICIENT, RELIABLE SOLUTIONS FOR EVERY BUSINESS.

Lennox Commercial is dedicated to smart business. Our rooftop units break new ground in efficiency, functionality and cost of ownership. Lennox VRF® and Lennox Mini-Split Systems deliver flexible options for every structure. Lennox small and large commercial split systems provide efficient solutions every step of the way. No matter what the application or installation, Lennox Commercial is here to help.



www.lennoxcommercial.com



www.youtube.com/lennoxcommercial



LennoxPROs.com®

www.lennoxpros.com

A low-angle photograph of a crane lifting a large, light-colored container. The crane's boom extends from the bottom right towards the top center. The container is suspended by four cables. The background is a sky with soft, wispy clouds, all rendered in a monochromatic red color. In the foreground, the top of a brick building is visible, featuring several circular openings. The crane boom has white markings: '43', '56', '69', and '82' with vertical lines next to them.

INNOVATION IS AT THE HEART
OF EVERY LENNOX[®] PRODUCT.

AND OUR COMMERCIAL OFFERINGS ARE NO EXCEPTION.



AN INDUSTRY-LEADING LINEUP

	MODEL L™	ENLIGHT™	XION™	RAIDER®	ENERGENCE®
Description	Ultra-high efficiency product with advanced control system, variable-speed technology and extensive factory options	High-efficiency product with advanced control system and extensive factory options	Standard-efficiency product with electromechanical control system and moderate factory options	Standard-efficiency product with electromechanical control system and standard factory options	Standard and high-efficiency product with advanced control system and extensive factory options
For the customer desiring:	The lowest total cost of ownership through exceptional efficiency, open integration, customization and a simple service experience	Lower operating costs, premium performance, and unmatched flexibility for a broad range of installations	Added value through product flexibility and easy serviceability for a broad range of installations	Immediate value with proven reliability, replacement compatibility and immediate availability for small tonnage applications	Lower operating costs, premium performance, and unmatched flexibility for large tonnage applications
Tonnage	3–25	2–25	2–25	3–12.5	20–50
Type	G/E, E/E	G/E, E/E, HP, DF	G/E, E/E, HP	G/E, E/E, HP	G/E, E/E
Efficiency Level(s)	Ultra-High	High	Standard	Standard	Standard or High
Unit Controller	Lennox® CORE Unit Controller	Lennox® CORE Unit Controller	—	—	Prodigy® 2.0 Unit Controller
Lowest Total Cost of Ownership *	Lowest	Lower	Low	Standard	Lower
Factory Options	Extensive selection	Extensive selection	Moderate selection	Standard selection	Extensive selection
Humidity Control	Enhanced Dehumidification (Standard), Humiditrol™+ option	Humiditrol® option	Humiditrol® option	—	Humiditrol® option

*Provides for reduced installation, service, maintenance and utility costs



Model L rooftops units provide advanced, forward-thinking HVAC solutions and are designed to deliver the lowest total cost of ownership in the industry.

The Model L™ rooftops feature the revolutionary Lennox® CORE Unit Controller and advanced variable-speed technology to maximize energy savings. But that's just the beginning. Premium diagnostic features reduce installation, service and maintenance expenses to provide the lowest total cost of ownership in the industry.



ENERGY OPTIMIZATION

Model L rooftop units deliver the lowest total cost of ownership through variable-speed components and intelligent operation.

- **Energy-saving efficiency ratings** of up to 22.5 SEER, 23.3 IEER and 15.0 EER are the highest in the industry*
- **Optimized humidity control** with enhanced dehumidification and optional Humiditrol™+ reduces energy usage over traditional hot-gas reheat systems
- **Qualifies for rebate programs**, delivering even more ways to save money



COMPLETE COMFORT

Advanced technologies deliver premium comfort and indoor air quality in a wide range of applications.

- **Humiditrol™+**, a modulating hot gas reheat dehumidification system, provides energy-efficient dehumidification for superior indoor air quality and year-round comfort
- **UVC germicidal lights and high-MERV filter** options provide indoor air quality solutions for comfortable air in diverse climate zones
- **Modulating compressors and fans** optimize efficiency and comfort to meet space demands in both single-zone and multi-zone VAV application



ENGINEERED INTELLIGENCE

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

- **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 all-new wireless sensors allow freedom of choice and custom monitoring and control
- **Diagnostics and sensor system** monitors component performance, tracks capacity and efficiency, and alerts when necessary, enabling smart asset management



SIMPLE SERVICE

Model L 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 gas compartment, which further reduces service time

*Based on internal lab testing at ambient temperature conducted in January 2021 of the Model L system compared to competitor values listed in the AHRI directory.

MODEL L™ HIGHLIGHTS:
3- to 25-ton gas/electric and electric/electric configurations

Up to 22.5 SEER, 23.3 IEER, and 15.0 EER



Lennox® CORE Control System revolutionizes the service experience with guided setup, detailed reports and actionable alerts

Single-zone VAV and Multi-zone VAV configurations available 3 - 25 tons

Lead variable-speed compressors reduce energy usage and deliver premium comfort



Humiditrol™+ modulating dehumidification system provides improved comfort and indoor air quality

The variable-speed supply fan technology achieves up to 75% fan power savings

Extensive factory options and accessories are available



ENERGY STAR® certified units



Financing available through www.lennoxleasing.com



Application Flexibility, Intelligent Operation

Enlight™ rooftop units powered by 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.



APPLICATION FLEXIBILITY

The Enlight™ lineup gives you the flexibility to choose exactly the right configuration for your application.

- **Comprehensive product line** consisting of 3-25 ton gas-electric and electric-electric, and 2-20 ton heat pump and dual fuel heat pump models makes Enlight™ your go to brand
- **Configure to order options** tailors the unit to your application requirements reducing installation time



SUSTAINABLE BY DESIGN

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

- **Energy-saving efficiency ratings** of up to 18.0 SEER, 17.0 IEER, and 13.5 EER 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 gas compartment which further reduce service time

ENLIGHT™ HIGHLIGHTS:

3 to 25 ton gas/electric and electric/
electric units

2 to 20 ton heat pump and dual fuel units

Up to 18.0 SEER, 17.0 IEER,
and 13.5 EER



Lennox® CORE Control system 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



Financing available through www.lennoxleasing.com

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



Proven Reliability, Superior Serviceability

Xion™ rooftop units are designed for quick field adaptability, making them ideal for fast turnaround commercial applications. The Lennox standard - reliable performance and year-round comfort packaged within a serviceable design.



ROOF READY

Xion™ rooftop units are designed to fit your application needs. These units come with a range of convenient features that make installation quick and easy.

- **Field flexibility** with more than 100 field-installed accessories allows quick modification of units to fit the application
- **Installation made easy** with self-sealing insulated base and minimized plumbing through a convertible drain pan



RELIABLE PERFORMANCE

Xion™ rooftop units are engineered with the right technologies and options to meet standard efficiency requirements while delivering reliable performance and year-round comfort.

- **Environ™ coil system** designed by Lennox® uses proven technologies to provide reliable performance and stand up to the rigors of everyday use year after year
- **MSAV® supply fan technology** optimizes system performance by staging airflow to provide year-round comfort and power savings of up to 61% over traditional blower systems
- **Humiditrol® dehumidification technology** offers an optional humidity control system that efficiently removes moisture from the air to create a healthier and more comfortable indoor environment



SIMPLE SERVICE

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

- **Slide-out blower motor** reduces installation time and is easy to service
- **Isolated compressor compartment** allows performance check while unit is working, without interrupting airflow
- **Accessible gas compartment** provides quick and convenient access to all gas compartments

XION™ HIGHLIGHTS:

- 2 to 25 ton gas/electric and electric/electric
- 2 to 20 ton heat pump

Up to 14.0 SEER, 15.0 IEER, and 12.5 EER

More than 100 field-selectable options to ensure fast and easy installation



MSAV® supply fan technology achieves up to 61% fan power savings (Standard on units 6 tons and up)



Environ™ coil system maximizes reliability and sustainability*



Improved comfort with the Humiditrol® dehumidification system*



Available through select Lennox PartsPlus® stores and Lennox® Commercial distribution facilities



Financing available through www.lennoxleasing.com

*Available on Gas/Electric and Electric/Electric models only.



Offering affordable reliability, Raider® rooftop units deliver value without compromise on every job, every time.

Designed with the replacement market in mind, our expanded Raider rooftop line is compatible with one of the most common footprints, eliminating the need for an adaptor curb.



REPLACEMENT COMPATIBILITY

Raider units are designed to work well in a range of applications and can be installed quickly and efficiently.

- **Compatible with widely used footprints in the industry**, eliminating the need for an adaptor curb
- **Utilizes existing utility connections** in many replacement jobs



LIGHTWEIGHT DESIGN

Lightweight Raider units are easy to move into place. Once installed, Raider units do not significantly add to the weight-bearing stresses on the building.

- **Environ™ coil system** is 59% lighter than similar Cu/Al coil
- **Lighter-weight unit** means there's no need for structural analysis on replacement jobs



SIMPLE SERVICE

The Simple Service™ system helps ensure ease of installation and maintenance to make every call easier.

- **Accessible gas compartment** allows access to all gas components through side access panel
- **Compressor access panel** allows easy accessibility to compressor service ports
- **Toolless filter** access allows quick change-out and service

RAIDER® HIGHLIGHTS:

3 to 12.5 ton gas/electric, electric/electric, and heat pump

Up to 14.0 SEER, 15.0 IEER, and 11.8 EER

Over 200 quality checkpoints per unit*

Save up to \$1,500 on replacement projects**

Compatible with popular curb size, eliminating need for adaptor curb

Stocked at 100% of Lennox® commercial distribution facilities



Optional MSAV® supply fan technology achieves up to 61% fan power savings



Environ™ coil system maximizes reliability and sustainability***

LENNOX Stores

Available through select Lennox PartsPlus® stores and Lennox® Commercial distribution facilities



Financing available through www.lennoxleasing.com

*Quality checkpoints per unit are composed of inspections on each component, component verification technology, manufacturing line inspections and final unit testing.

**\$1,500 savings is calculated in replacement jobs where the Raider unit matches the footprint, eliminating the use of an adaptor curb and moving electrical and plumbing connections.

***Available on Gas/Electric and Electric/Electric models only.



Featuring intelligent technology, Energence rooftop units give you a more sophisticated level of performance and control.

The Energence family was designed to deliver some of the highest commercial rooftop unit efficiency ratings in the industry. The exclusive Prodigy® 2.0 Unit Controller interface provides guided setup, ensuring accurate configuration and commissioning.

ENERGENCE® HIGHLIGHTS:
20 to 50 ton gas/electric and electric/electric configurations

Up to 12.5 EER and 15.5 IEER



EFFICIENT BY DESIGN

The Energence lineup of rooftop units deliver the lowest cost of ownership through exceptional efficiency and intelligent design.

- **Energy-saving efficiency ratings** of up to 12.5 EER and 15.5 IEER
- **Optional MSAV supply fan technology** can provide up to 75% fan power savings
- **Qualifies for energy rebates/incentives**, delivering even more ways to save money



MSAV® supply fan technology achieves up to 75% fan power savings



INTELLIGENT OPERATION

Prodigy® 2.0 Unit Controller delivers enhanced performance, fast and accurate setup, and simplified operation.

- **Four-line LCD screen** with simplified user interface and text-based display enables intuitive setup and easy system navigation
- **Patented SmartWire™ system** allows for efficient unit installation and effective troubleshooting
- **Prodigy App** allows for easy installation and troubleshooting with alarm and control parameter look up as well as access to technical documents



Environ™ coil system maximizes reliability and sustainability



Improved comfort with the Humiditrol® dehumidification system

Extensive factory options and accessories are available



SIMPLE SERVICE

The Simple Service™ system helps ensure ease of installation and maintenance to make every call easier

- **Accessible gas compartment** allows access to all gas components.
- **Slide-out blower motor** reduces installation time and is easy to service
- **Isolated compressor** allows performance check while unit is working, without interrupting airflow



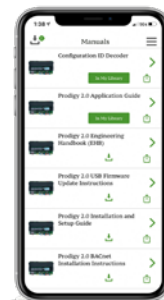
Financing available through www.lennoxleasing.com



PRODIGY®

The Prodigy® 2.0 Unit Controller is a smart idea that keeps getting smarter, with features that simplify installation and operation.

- **Four-Line, 20 Character Display**
- **Dedicated Navigation and Adjustment Buttons**
- **BACnet®/LonTalk® Compatibility**

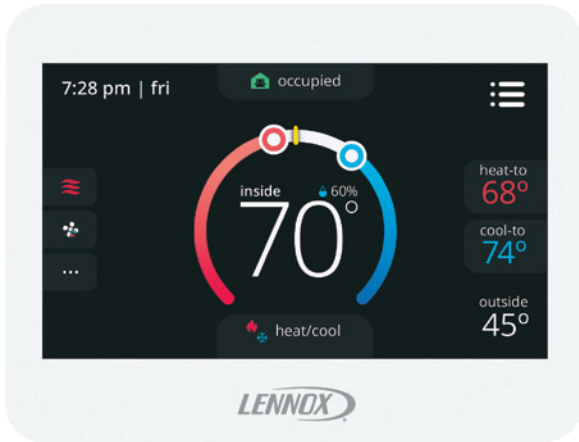


THE PRODIGY APP

- Alarm and Parameter Lookup
- Technical Document Library
- Menu Path Navigation
- FAQ's and How-to Videos



Sensors and Thermostats

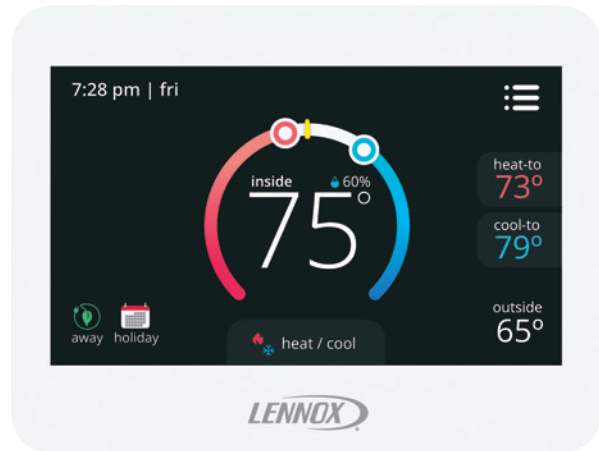


COMFORTSENSE® 8500 COMMERCIAL PROGRAMMABLE COMMUNICATING SENSOR

- Multipurpose communicating sensor designed specifically for commercial standalone or network applications
- Improved and enhanced features ensure ASHRAE, IECC and FDD compliance
- Full 7-day programmability
- Compatible with Lennox Model L™, Enlight™, and Energence® rooftop units
- Auto changeover between heating and cooling
- Built-in humidity sensor and built-in CO2 sensor in select models
- Simplified installation and service with only four wires
- BACnet® compatibility, through CORE or Prodigy® 2.0 Unit Controllers, allows for simple integration of heating and cooling schedules

COMFORTSENSE® 7500 COMMERCIAL THERMOSTAT

- Backlit 4.3-inch color touchscreen display is easy to read in any light
- Improved and enhanced features ensure ASHRAE, IECC and FDD compliance
- Compatible with Lennox rooftop units, split systems and Humiditrol® dehumidification
- Full 7-day programmability
- Optional display timeout will turn off the display to save energy, hiding setpoint controls and restricting user access



LCS-5030 WIRED/WIRELESS ROOM SENSOR

- Connects wirelessly to built-in antennas in Model L and Enlight RTUs, reducing setup and install costs.
- Built in temperature and humidity sensors
- AA Battery or 24V powered
- Automatic sensor averaging



Providing exceptional performance and efficiency, the Lennox® CORE Control System featured on Model L and Enlight rooftop units utilize optional wireless sensors, a mobile service app and a built-in wireless gateway to deliver the lowest cost of ownership.



CONNECTED SERVICE

The Lennox® CORE Control System reinvents the service process in the palm of your hand with a wireless mobile service app, making setup and service faster than ever before.

- **Guided Setup** with progress indicators, detailed help, and exportable summaries drive simple and trouble-free setup, **reducing commissioning times** over similar systems.
- **Enhanced Test Functionality** provides real-time sensor readings, trending, and reports that enable easy troubleshooting
- **Multiple Device Support** for Android and iOS on both phones and tablets lets you experience the Lennox® CORE Service App on the device you are comfortable with



OPEN INTEGRATION

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

- **Multi-protocol Support** including standard BACnet® IP & MS/TP allows custom monitoring and control while maintaining backwards compatibility
- **Wireless Sensor Support** with no additional gateways reduces installation cost of both retrofits and new installations
- **Device Encryption and Firmware Validation** are engineered to Federal Information Processing Standard 140-2 guidelines and provide peace of mind without sacrificing functionality



RELIABLE PERFORMANCE

The Lennox® CORE Control System uses built-in algorithms to deliver key performance indicators and drive unit components simply and reliably.

- **Intelligent Operation** optimizes comfort and unit reliability without complex configuration, saving time and delivering results
- **Integrated wireless gateway** provides a secure connection to optional wireless zone sensors and the Lennox® CORE Service App
- **Configurable Backup Modes** maintain unit operation and comfort during construction or external building control downtime



EFFICIENCY OPTIMIZATION

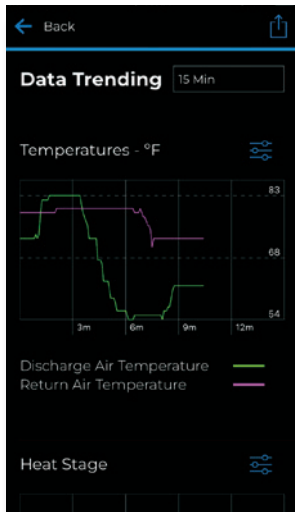
The Lennox® CORE Unit Controller optimizes unit operation in real-time by processing advanced sensor inputs, maximizing energy efficiency and space comfort.

- **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, allowing your organization to keep units running efficiently while reducing troubleshooting time
- **Configuration Parameters** drive tailored sequences of operation and make the CORE Unit Controller the most flexible Lennox has to offer

THE LENNOX® CORE SERVICE APP

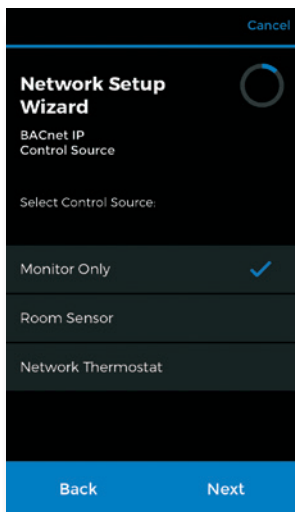
MAKES SERVICING SIMPLE

The Lennox® CORE Service App replaces a traditional built-in user interface on the CORE Unit Controller and provides guided setup menus 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.



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.



Lennox® VRF means connecting technology with expertise, even in demanding applications.

When you choose Lennox® VRF, you're connecting to the only heating and cooling solution that includes the flexibility of zoning, the efficiency of variable refrigerant flow and the unparalleled expertise of Lennox. Ideal for lodging, healthcare, multi-family structures, educational facilities, retail, dining and more, Lennox VRF requires very little structural modification to install.



LENNOX VRF MEANS SERIOUS ADVANTAGES

- Standard communicating wiring scheme simplifies installation
- Simple maintenance and service
- Energy-efficient operation
- Extremely low sound levels
- Wide range of equipment options to fit any floor plan or application



ADVANCED VERSATILITY

Made to be flexible, Lennox® VRF units adapt to a wide variety of buildings and projects, so you can design with them—not around them.

- Single module outdoor units up to 16 tons, combinable up to 42 tons
- Built-in four-point dry contact boards on indoor units for auxiliary device control
- Mode-selection box piping connections on both sides of the unit
- Mode-selection boxes available in 2- to 12-port options



INTELLIGENT PERFORMANCE

Lennox® VRF is the smart choice, because you're getting high-performing VRF powered by the intelligence of Lennox.

- Vapor-injection technology for superior performance
- High-efficiency DC motors in all indoor units
- Industry-leading Simultaneous Cooling and Heating Efficiency (SCHE) for Heat Recovery outdoor units
- Enhanced humidity control options with the touchscreen programmable controller for maximum comfort control



UNMATCHED SERVICEABILITY

Designed with the contractor in mind, Lennox® VRF units are easy to install, service and maintain.

- Hinged doors with locking closure and rods that hold doors open for easy serviceability
- Built-in service console with 4-line LCD display
- Touchscreen programmable controller auto-detects indoor unit model and capacity, adjusting selectable options based on the unit style
- Sectional filters standard on ducted indoor units fold upon removal to save space

OUTDOOR UNITS



Heat Recovery and Heat Pump Outdoor Unit



Mini-VRF Outdoor Unit



Low Ambient Heat Recovery and Low Ambient Heat Pump Outdoor Unit



INDOOR UNITS



Wall-Mount



360° Compact Cassette



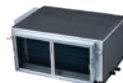
360° Cassette



One Way Cassette



Ceiling and Floor Mount



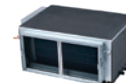
High-Static Ducted Unit



Medium-Static Ducted Unit



Vertical Air Handler



Outside Air Duct



Floor Console Cased



Floor Console Uncased

MODE SELECTION BOXES

Available in six configurations, Lennox VRF mode selection boxes control the flow of refrigerant to different indoor units on heat recovery systems. This allows heat taken from one zone to be reused in another zone, further enhancing energy efficiency.



2-Port Mode Selection Box



4-Port Mode Selection Box



6-Port Mode Selection Box



8-Port Mode Selection Box



10-Port Mode Selection Box



12-Port Mode Selection Box



CONTROLS

Lennox VRF Controls provide powerful control of Lennox VRF systems with a sleek, intuitive interface.

Lennox VRF Manager Touchscreen Centralized Controller

Enables touchscreen control and monitoring of every unit in your entire VRF system.

- Remote access via mobile and desktop devices
- Scheduling
- System monitoring
- Status history
- Controls up to 2,560 indoor units
- Controls up to 320 VRF systems



Programmable Touchscreen Controller



Non-Programmable Controller



Wireless Handheld Controller

LENNOX VRF & MINI-SPLITS MOBILE APPLICATION

Available on iTunes and Google Play, the Lennox VRF & Mini-Splits App puts invaluable resources right at your fingertips to simplify operation and installation, such as:

- Help videos
- Document library
- Refrigerant charge calculator
- Error code lookup
- Quick reference section
- Piping specifications and limitations



VRF REVIT® FILES

As part of the expertise and support that come with Lennox VRF, an array of Autodesk Revit® files are available to assist in specification, installation and system design.



LonWorks is a registered trademark of Echelon Corporation. BACnet is a registered trademark of ASHRAE.

Lennox® Mini-Split Systems bring heating and cooling anywhere they're needed.

Not every commercial space is the same. Some areas may be difficult to heat and cool. Others may be impossible to reach with conventional ductwork. And some areas simply aren't designed to accommodate large heating and cooling solutions. For situations like these, Lennox offers a brilliant, innovative solution: Lennox® Mini-Split Systems.

Lennox Mini Splits are easy to install. They require just one utility connection to connect the indoor and outdoor units. Different mini-split systems are available for both single-and multi-zone heating and cooling.



MP-SERIES HEAT PUMP MINI-SPLIT UNITS

Powerful and accommodating, Lennox MP-Series Mini-Split Systems provide cooling or heating flexibility for a wide range of applications.

- Efficiency ratings up to 23.5 SEER and 11.5 HSPF
- Single- and multi-zone compatible:
 - Single zone from 0.75 to 4 tons
 - Multi zone from 1.5 to 4 tons up to 5 zones
- Single-point utility connection powers indoor unit
- Low-noise operation with levels as low as 52.5 dBA
- Available in 208-230V and 115V, single-phase
- Excellent construction, reliability and warranties
- Standard base pan heater prevents ice buildup
- Can help meet LEED requirements for efficiency and indoor air quality
- Complements the full line of Lennox VRF products

ML-SERIES LOW AMBIENT HEAT PUMP MINI-SPLIT UNITS

Efficient, reliable and quiet, Lennox ML-Series Mini-Split Heat Pump units provide maximum indoor comfort, even in negative outdoor temperatures.

- 100% cooling and up to 100% heating capacity at OF, with a wide ambient temperature operating range:
 - Cooling: -22° to 122°F
 - Heating: -22° to 86°F
- Efficiency ratings up to 24 SEER and 12.5 HSPF
- Single- and multi-zone compatible:
 - Single zone available 0.75 to 4 tons
 - Multi zone from 1.5 to 4 tons up to 5 zones
- Single-point utility connection powers indoor unit
- Standard base pan heater prevents ice buildup
- Low-noise operation with levels as low as 52 dBA
- Available in 208-230V, single-phase voltage
- Can help meet LEED requirements
- Complements the full line of Lennox VRF products



MINI-SPLIT SYSTEMS

OUTDOOR UNITS



Heat Pump Units
Single Zone: MPB009 thru 048,
MHA009 thru 024, and 3PB036
Multi Zone: MPB018 thru 048



Air Conditioner Units
Single-Zone: MCA009 thru 024

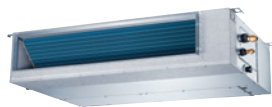


Low Ambient Heat Pump Units
Single Zone: MLA/B009 thru 048
Multi Zone: MLA/B018 thru 048

INDOOR UNITS



Cassette,
Non-Ducted Unit



Medium-Static
Ducted Unit



Wall-Mounted,
Non-Ducted Unit



Ceiling/Floor-Mount,
Non-Ducted Unit

CONTROLS



Wireless Remote comes with Wall-Mount, Cassette and Ceiling/Floor Non-Ducted Models

- Dedicated buttons for quick access modes, such as sleep mode, turbo mode, self-cleaning mode, quiet mode and frost prevention
- Wireless operating range up to 26 ft.
- Time function enables timed on/off operation of indoor unit



Wired Controller comes with Medium-Static Ducted Models

- Simple, user-friendly design
- Backlit LCD display for easy visibility
- °F or °C field selectable (default °F)



Optional Wired Programmable Controller

- Compatible with all mini-split indoor units
- Programmable daily schedule with up to 8 actions per day
- Copy/paste function for easy schedule programming
- Schedule start time, mode, setpoint and fan speed

Superior engineering and durable design help achieve low lifecycle costs

AIR CONDITIONERS AND HEAT PUMPS



**ELITE®
SERIES**

**ELITE® SERIES
ELS/ELP 6 TO 20 TON AIR
CONDITIONERS
AND HEAT PUMPS**

- 6 to 20 ton air conditioners
- 7.5 and 10 ton heat pumps
- 2-stage cooling across all tonnages—for both single- and dual-circuit systems

EFFICIENCY RATING
Up to 16 IEER

WARRANTY
5-Year Limited Warranty on compressor
1-Year Limited Warranty on covered components



**ELITE®
SERIES**

**ELITE® SERIES 3 TO 5 TON
AIR CONDITIONERS AND
HEAT PUMPS**

- Superior energy efficiency
- Compatible with the Humiditrol® dehumidification system, which helps reduce moisture and control the spread of airborne contaminants
- 2-stage scroll compressor
- Operates as quietly as 76 dBA
- SmartHinge™ louvered coil protection allows access to interior components on all sides

EFFICIENCY RATING
Up to 16.5 IEER and 9.5 HSPF

WARRANTY
5-Year Limited Warranty on compressor
1-Year Limited Warranty on covered components

NEW



**MERIT SERIES 3 TO 5 TON AIR
CONDITIONERS AND HEAT PUMPS**

- 208/230, 460/230/460V
3 Phase Models
- Comes with the exclusive Quantum® Coil technology to help deliver years of trouble free operation.
- Louvered-heavy gauge steel panels and cabinets features PermaGuard® to provide superior corrosion resistance.
- Operates as quietly as 76 dBA
*Available in AC systems only

EFFICIENCY RATING
Up to 16 SEER

WARRANTY
5-Year Limited Warranty on compressor
1-Year Limited Warranty on covered components

INDOOR COILS



C35, CX35 INDOOR COILS

- 1.5 to 5 ton capacities
- Upflow, full-cased models
- Large face area for high-efficiency operation
- Copper-rifled tubing and enhanced aluminum fins improve heat transfer
- Non-corrosive, UV-resistant polymer drain pan with dual drain connections
- CX35 is all aluminum with aluminum tube and fin
- Minimal air resistance for better performance

WARRANTY
1-Year Limited Warranty on covered components



**C35, CR33, CH23, CH35, CHX35
INDOOR COILS**

- 1.5 to 5 ton capacities
- Cased models with all-aluminum design—aluminum tube and fin (C35 and CH35, and CHX35) AG input
- Upflow configuration (C35)
- Horizontal configuration (CH23, CH35, and CHX35) AG input
- Downflow configuration (CR33)
- Large face area for high-efficiency operation
- Aluminum-rifled tubing and enhanced aluminum fins improve heat transfer (CR33 and CH23) AG input
- Long-lasting, painted, galvanized cabinet and plastic drain pans
- Minimal air resistance for better performance

WARRANTY
1-Year Limited Warranty on covered components



AIR HANDLERS



ELITE
SERIES

**ELITE® SERIES ELA
6 TO 20 TON AIR HANDLERS**

- **6 to 20 ton capacities**
- Designed to match the all Elite Series 6 to 20 ton air conditioners and 7.5 and 10 ton heat pumps
- Advanced Condensate Management™ system provides superior protection against water build up, rust and corrosion
- Pure Comfort™ system designed for ideal performance and maximum energy savings
- Simple Service™ system allows for easy installation and maintenance

WARRANTY
1-Year Limited Warranty on covered components and units



CBA38MV AIR HANDLERS

- **1.5 to 5 ton capacities**
- 2-part cabinet construction for installation in tight applications
- Slide-out supply fan for quick and easy maintenance
- Variable speed fan motor
- Multiple blower speeds help provide precise comfort control
- Voltage options — CBA38MV available in 230/1/60
- Electric heat options — CBA38MV available in 230/1/60, 230/3/60
- Lennox® Quantum™ coil all-aluminum evaporator coil

WARRANTY
1-Year Limited Warranty on covered components and units



CBA27UHE AIR HANDLER

- **1.5 to 5 ton capacities**
- 3-5 Ton for 3 phase models
- ECM constant torque blower for efficient operation
- High static performance up to .8" w.c.
- 4 heat/ 2 cool operation
- Dedicated upflow/horizontal configuration with optional downflow kit, field conversion
- 2-part cabinet construction for installation in tight applications
- Excellent match with high-efficiency S-Class or T-Class outdoor units
- Easy to remove supply fan for quick and easy maintenance
- Lennox Quantum coil all-aluminum evaporator coil (CBA27)
- Voltage options — available in 230/160, 460/1/60 and 575/160 Electric heat options — available in 230/1/60, 230/3/60, 460/3/60 and 575/3/60

WARRANTY
1-Year Limited Warranty on covered components and units



CBA25UH/UHV AIR HANDLERS

- **1.5 to 5 ton capacities**
- High-value, economical match for Merit single phase air conditioners and heat pumps
- Variable-speed ECM blower on UHV model
- Multiple blower speeds help provide precise comfort control
- Dedicated upflow/horizontal configuration with optional downflow kit, field conversion
- High-quality components and design for great reliability and performance
- Voltage and electric heat — available in 230/1/60

WARRANTY
1-Year Limited Warranty on covered components and units

FURNACES



SLP99V GAS FURNACES

- 66,000–132,000 Btuh
- 33" design profile
- Duralok Plus Heat Exchanger Assembly
- Upflow/horizontal or dedicated downflow models available
- Sealed blower compartment
- Reliable SureLight® igniter
- Multi-speed, direct-drive, easy to remove blower and toolless entry for quick maintenance

EFFICIENCY RATING

99% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



EL296E/V GAS FURNACES

- 44,000–132,000 Btuh
- 33" design profile
- 2-stage gas heating for improved comfort control
- Upflow/horizontal or dedicated downflow models available
- V= variable speed fan motor, E = constant torque fan motor, slide out blower and tool-less entry
- Reliable SureLight igniter
- Expanded venting options
- Sealed blower compartment
- Reliable SureLight igniter Multi-speed, direct drive, easy to remove blower and toolless entry for quick maintenance

EFFICIENCY RATING

96% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



ML296V GAS FURNACES

- 44,000–110,000 Btuh
- 33" design profile
- 2-stage gas heating for improved comfort control
- Upflow/horizontal or dedicated downflow models available
- Expanded venting options
- Sealed blower compartment
- Reliable SureLight igniter
- Multi-speed, direct-drive, easy to remove blower and toolless entry for quick maintenance

EFFICIENCY RATING

96% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



ML196E GAS FURNACES

- 30,000–132,000 Btuh
- 33" design profile
- Direct or non-direct vent for flexible installation
- Silicon nitride igniter delivers starting reliability
- Upflow/horizontal or dedicated downflow models available
- Multi-speed, direct-drive, easy to remove blower and toolless entry for quick maintenance

EFFICIENCY RATING

96% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



Single stage, high efficiency



ML193E GAS FURNACES

- 30,000–110,000 Btuh
- 33" design profile
- Direct or non-direct vent for flexible installation
- Silicon nitride igniter delivers starting reliability
- Upflow/horizontal or dedicated downflow models available
- Multi-speed, direct-drive, easy to remove blower and toolless entry for quick maintenance

EFFICIENCY RATING

93% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



EL280E GAS FURNACES

- 44,000–110,000 Btuh
- 33" design profile
- 2-stage heating for improved comfort control
- Upflow/horizontal or dedicated downflow models available
- Sealed blower compartment
- Reliable SureLight igniter
- Multi-speed, direct-drive, easy to remove blower and toolless entry for quick maintenance

EFFICIENCY RATING

80% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



SL280V GAS FURNACES

- 66,000–132,000 Btuh
- 33" design profile
- Upflow/horizontal or dedicated downflow models available
- Sealed blower compartment
- Direct-drive, slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING

80% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



ML180V/E GAS FURNACES

- 30,000–132,000 Btuh
- 33" design profile
- Upflow/horizontal or dedicated downflow models available
- V= variable speed fan motor, E = constant torque fan motor, slide out blower and tool-less entry

EFFICIENCY RATING

80% AFUE energy efficiency

WARRANTY

10-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components

UNIT HEATERS AND DUCT FURNACES



LS25 SEPARATED COMBUSTION UNIT HEATERS

- Heating capacities from 30,000-400,000 Btuh
- Ideal for hard-to-heat applications where excessive dust, dirt, humidity or negative pressure is a concern
- Durable tubular heat exchanger
- Hinged door allows easy access to components
- Stainless steel heat exchanger is available for longer product life
- Sidewall venting eliminates roof penetrations
- Self-diagnostic board with LED display improves troubleshooting efficiency and accuracy
- Natural Gas to LPG Conversion Kits Available
- Complies with ASHRAE 90.1-2013
- CSA International certified to ANSI Z83.8

EFFICIENCY RATING

- 82% Steady State

WARRANTY

- 15-Year Limited Warranty on stainless steel heat exchanger
- 10-Year Limited Warranty on aluminized heat exchanger
- 1-Year Limited Warranty on covered components



LF25 UNIT HEATERS

- 30,000-400,000 Btuh
- Compact cabinet design on 30,000-105,000 Btuh models
- Ideal for a wide range of commercial and residential applications
- Stainless steel heat exchanger available on 125,000-400,000 Btuh
- Sidewall venting eliminates roof penetrations
- Self-diagnostic board with LED display improves troubleshooting efficiency and accuracy

EFFICIENCY RATING

Up to 83.8% thermal efficiency

WARRANTY

- 15-Year Limited Warranty on stainless steel heat exchanger
- 10-Year Limited Warranty on aluminized heat exchanger
- 1-Year Limited Warranty on covered components



LD24 DUCT FURNACES

- 75,000-300,000 Btuh
- Compact cabinet allows for versatile installation
- Gas-fired
- Durable tubular heat exchanger
- High-quality aluminized steel inshot burners
- Self-diagnostic board with LED display improves troubleshooting efficiency and accuracy
- Electronic ignition

EFFICIENCY RATING

80% thermal efficiency

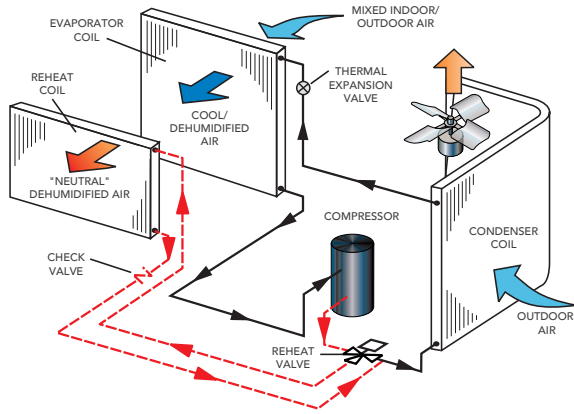
WARRANTY

- 15-Year Limited Warranty on stainless steel heat exchanger
- 10-Year Limited Warranty on aluminized heat exchanger
- 1-Year Limited Warranty on covered components

HUMIDITY CONTROL

Lennox offers a wide range of superior products to help improve indoor air quality in commercial buildings. Our dehumidification-on-demand design removes moisture based on relative humidity levels—not the temperature—so it’s easy and efficient to create a better indoor environment.

HUMIDITROL HOT GAS REHEAT DIAGRAM



HUMIDITROL DEHUMIDIFICATION SYSTEM FOR SPLIT SYSTEMS

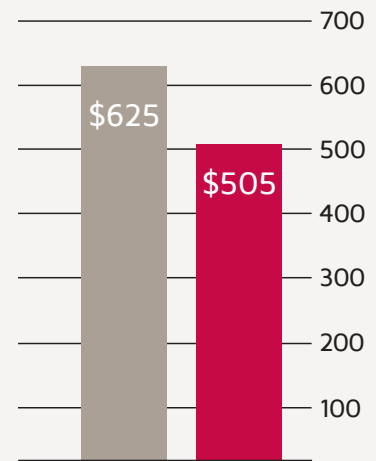
- Precise humidity control for split systems that maintains ASHRAE 62.1-2013 fresh-air requirements
- This secondary coil is installed downstream of the evaporator, now available as a field-installed accessory
- Better control by activating dehumidification cycle based on humidity levels, not temperature
- Patented reheat design helps control the growth of mold, mildew and dust mites for unmatched indoor air quality
- Requires only the addition of iComfort Wi-Fi® touchscreen thermostat* and Lennox® variable-speed furnace or air handler

*Select units will also require the equipment interface module.

HUMIDITROL DEHUMIDIFICATION SYSTEM FOR LENNOX ROOFTOP UNITS

- Excellent humidity control in the toughest applications such as mild-temperature, high-humidity days
- Allows humidity control independent of cooling
- Meets ASHRAE 62.1-2013 fresh-air requirements
- Humiditrol™+ units utilize variable-speed components to efficiently dehumidify the space without overcooling it

ENERGY COST/YEAR



SAVINGS \$120 PER YEAR

- Hot gas/subcool dehumidification system
- Advanced Humiditrol® dehumidification system

Calculations based on 1,460 hours of dehumidification per year on 5-ton rooftop unit. Energy cost estimated at \$0.13 per kwh.

END NOTES

Due to Lennox' ongoing commitment to quality, all specifications and ratings are subject to change. Not all options and accessories listed for each product are available on all models. Contact your Lennox sales representative for details.

For full warranty details, see actual warranty certificate.

Lennox's product portfolio meets the needs of today's new standard for indoor air quality by providing energy efficient ventilation, high efficiency filtration and air purification to keep buildings healthy and efficient.

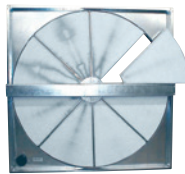
UVC GERMICIDAL LIGHTS AND FILTERS



UVC GERMICIDAL LIGHTS

- Reduces concentration of mold, bacteria and fungi on coils
- Designed for Model L™, Enlight™, Energence® and Xion™ rooftop units
- Includes complete safety kit
- Helps maintain system heating and cooling efficiency
- Reduces irritants that can affect IAQ
- Available as field-installed kit (factory installation available for Model L and Enlight™ rooftop units)

Note: Hg-lamps contain mercury. Dispose of properly. Refer to www.lamprecycle.org or call 1-800-9-LENNOX.



ENERGY RECOVERY WHEEL

- Factory-installed option on Energence 35 to 50 ton rooftop units
- AHRI-certified energy recovery wheel
- Energy recovery wheel is segmented for easy cleaning and removal
- Washable energy transfer segment for long life and sustained effectiveness
- Permanently bonded silica gel desiccant for long life
- UL®-recognized component



DEMAND CONTROL VENTILATION

- Rooftop unit option featuring a carbon dioxide (CO2) sensor to estimate occupancy
- Modulates ventilation based on occupancy
- Minimizes energy costs while maintaining air quality
- Compatible with premium units featuring the Lennox® CORE Control System or Prodigy® Control System and an economizer or motorized outdoor air damper
- Compatible with non-Prodigy Lennox® rooftop units with an economizer

VENTILATION



ENERGY RECOVERY SYSTEM

- 300–6,200 CFM
- Available with most rooftop units
- Enthalpy wheel transfers heat and moisture
- AHRI-certified energy recovery wheels
- Patented pivoting wheel option for full economizer operation
- Barometric relief dampers standard
- Balancing dampers standard on fixed-wheel models
- Fully insulated, galvanized cabinet
- ETL-certified
- Energy recovery wheel is segmented for easy cleaning and removal



MERV AIR FILTERS

- High-efficiency air filters available in MERV 8, 11, 13 and 16
- Exceeds minimum requirements set forth by LEED®
- Conforms to UL900 Class 2 approval for U.S. and Canada
- Improves HVAC energy efficiency by keeping coil clean

ENERGY STAR® certification — Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with the appropriate coil components to meet ENERGY STAR criteria. Ask your contractor for details, or visit www.energystar.gov. All trademarks and registered trademarks are the property of their respective owners and are used for identification purposes only.

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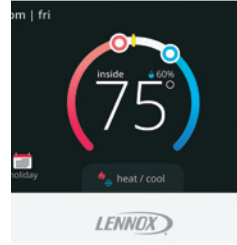
SOLUTIONS FOR CUSTOMIZED COMFORT

Don't just choose a Lennox product — choose a Lennox® Commercial Comfort System. These complete packages of HVAC solutions provide tools to create a healthy and comfortable environment.



PACKAGED UNITS

- Model L™ Rooftop Units
- Enlight™ Rooftop Units
- Xion™ Rooftop Units
- Raider® Rooftop Units
- Emergence Rooftop Units
- LRP14 Rooftop Units



COMMERCIAL CONTROLS

- Lennox® CORE Control System
- Prodigy® Control System
- Lennox Commercial Thermostats and Sensors



VRF

- Outdoor Units
- Indoor Units
- Controls
- Accessories



MINI-SPLIT SYSTEMS

- Heat Pump Mini-Splits
- Low Ambient Heat Pump Mini-Splits
- Indoor Units
- Controls



HEATING

- Unit Heaters
- Duct Furnaces
- Furnaces



INDOOR AIR QUALITY

- Humiditrol® Dehumidification System
- Demand Control Ventilation
- High Efficiency MERV Filters
- UVC Lamps
- Needle Point Bipolar Ionizers



SPLIT SYSTEMS

- Elite® Series Large and Small Split Systems
- Merit Series Small Split Systems
- Air Handlers
- Indoor Coils

