COMMERCIAL

HVAC PRODUCT GUIDE

INDUSTRY-LEADING EFFICIENCY
AND INNOVATION TO MEET YOUR NEEDS
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. And energy-saving advantages, like MSAV® supply fan technology and a full line of energy recovery solutions, offer innovation that translates to the bottom line.

Lennox Commercial also supports you with useful tools to simplify planning and installation, like the Total Cost of Ownership™ calculator and a full library of Autodesk Revit® files. No matter what the application or installation, Lennox Commercial is here to help.

www.lennoxcommercial.com

www.youtube.com/lennoxcommercial

www.lennoxpros.com
INNOVATION IS AT THE HEART OF EVERY LENNOX® PRODUCT.
AND OUR COMMERCIAL OFFERINGS ARE NO EXCEPTION.

AN INDUSTRY-LEADING LINEUP

Our 2019 rooftop lineup includes the most efficient, lightest and quietest unit in its class: Energence® Ultra-High-Efficiency. We also offer additional models of our Raider® and Landmark® rooftop units that are designed to meet your emergency replacement needs.

Whether you’re looking for the best in performance or flexible design configurations, you’ll find equipment that exceeds your highest expectations. And because our standards are as exacting as your own, our equipment is built and tested in an award-winning factory to ensure exceptional durability over time.

<table>
<thead>
<tr>
<th>Description</th>
<th>ENERGENCE®</th>
<th>LANDMARK®</th>
<th>RAIDER®</th>
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<tbody>
<tr>
<td>Ultra- and high-efficiency product with advanced control system and extensive factory options</td>
<td>Standard- and high-efficiency product with electromechanical control system and moderate factory options</td>
<td>Standard-efficiency product with electromechanical control system and standard factory options</td>
<td></td>
</tr>
<tr>
<td>For the customer desiring:</td>
<td>The lowest cost of ownership through exceptional efficiency, unmatched intelligence and unique customization for a broad range of installations</td>
<td>Added value through product flexibility, easy serviceability and efficiency options for a broad range of installations</td>
<td>Immediate value with proven reliability, replacement compatibility and immediate availability for small tonnage applications</td>
</tr>
<tr>
<td>Tonnage*</td>
<td>3–50</td>
<td>2–25</td>
<td>3–12.5</td>
</tr>
<tr>
<td>Type</td>
<td>G/E, E/E</td>
<td>G/E, E/E, HP</td>
<td>G/E, E/E, HP</td>
</tr>
<tr>
<td>Efficiency Level(s)</td>
<td>Ultra or High</td>
<td>High or Standard</td>
<td>Standard</td>
</tr>
<tr>
<td>Advanced Prodigy® 2.0 Unit Controller</td>
<td>Yes</td>
<td>–</td>
<td>–</td>
</tr>
<tr>
<td>Lowest Total Cost of Ownership **</td>
<td>Lowest</td>
<td>Low</td>
<td>Standard</td>
</tr>
<tr>
<td>Factory Options</td>
<td>Extensive selection</td>
<td>Moderate selection</td>
<td>Standard selection</td>
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<tr>
<td>Humidity Control</td>
<td>Humiditrol® option</td>
<td>Humiditrol® option</td>
<td>–</td>
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*Select tonnages including 3-, 5-, 10-, 20- and 24-ton nominal capacities
**Provides for reduced installation, service, maintenance and utility costs
Energence* Ultra-High-Efficiency delivers ultra innovation and performance on all counts.

Energence* Ultra-High-Efficiency rooftop units deliver industry-leading advantages for 3- to 20-ton applications. They offer the industry’s highest efficiency ratings, lower sound levels and a reduced weight that simplifies specification and installation. But that’s just the beginning.

### ULTRA-HIGH-EFFICIENCY TECHNOLOGIES

<table>
<thead>
<tr>
<th>CONTROL SYSTEM</th>
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<th>7.5-, 10-, AND 12.5-TON UNITS</th>
<th>15- AND 20-TON UNITS</th>
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</thead>
<tbody>
<tr>
<td>Prodigy® 2.0 Unit Controller</td>
<td>✔</td>
<td>✔</td>
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<thead>
<tr>
<th>COMPRESSOR</th>
<th>3- TO 6-TON UNITS</th>
<th>7.5-, 10-, AND 12.5-TON UNITS</th>
<th>15- AND 20-TON UNITS</th>
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<tbody>
<tr>
<td>Variable-speed compressor and inverter</td>
<td>✔</td>
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<tr>
<td>Advanced Cooling System™ - one set of tandem compressors</td>
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<td>✔</td>
<td></td>
</tr>
<tr>
<td>Advanced Cooling System - two sets of tandem compressors</td>
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<thead>
<tr>
<th>INDOOR BLOWER</th>
<th>3- TO 6-TON UNITS</th>
<th>7.5-, 10-, AND 12.5-TON UNITS</th>
<th>15- AND 20-TON UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable-speed, direct-drive blower</td>
<td>✔</td>
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<tr>
<td>MSAV® belt-drive blower</td>
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<td>✔</td>
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<tr>
<td>DirectPlus™ variable-speed, direct-drive blower</td>
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<tr>
<th>OUTDOOR FAN</th>
<th>3- TO 6-TON UNITS</th>
<th>7.5-, 10-, AND 12.5-TON UNITS</th>
<th>15- AND 20-TON UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Variable-speed outdoor fan</td>
<td>✔</td>
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<tr>
<th>HEATING</th>
<th>3- TO 6-TON UNITS</th>
<th>7.5-, 10-, AND 12.5-TON UNITS</th>
<th>15- AND 20-TON UNITS</th>
</tr>
</thead>
<tbody>
<tr>
<td>Four-stage gas burner</td>
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</table>
Featuring intelligent technology, Energence rooftop units give you a more sophisticated level of performance and control.

The Energence family was designed with the latest innovations 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 the most accurate configuration and commissioning in the least amount of time.

**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 23.5 SEER, 15 EER and 22 IEER for ultra-high-efficiency units.
- **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.

**INTELLIGENT OPERATION**

Industry-leading 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.

**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.

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**ENERGENCE® HIGHLIGHTS:**

3- to 50-ton gas/electric and electric/electric configurations

- Up to 23.5 SEER, 22 IEER and 15.0 EER for ultra-high-efficiency units
- Prodigy® 2.0 Controller provides fast, accurate setup and simplified operation
- Optional 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
- ENERGY STAR® certified units

Financing available through www.lennoxleasing.com

*Available on Energence® high- and standard-efficiency units only.
Reliable and adaptable, Landmark® rooftop units deliver performance marked by flexibility.

Landmark® rooftop units provide a flexible option for a quick replacement or new construction. They offer customizable field configurations, energy options and convenient serviceability. Best of all, they’re enhanced with sophisticated technology for high efficiency and reliability.

**FLEXIBLE OPTIONS**

Landmark units come with a range of customizable options, delivering exceptional application flexibility.

- **100+ field-installed options** tailor units to meet each application’s specific needs.
- **Optional MSAV® supply fan** technology meets two-stage airflow requirements for a variety of applications.
- **Humiditrol® dehumidification technology** is now available as an option on Landmark rooftop units. This simple humidity control system delivers an efficient and effective way to remove moisture from the air, making it easy to create a more comfortable and healthier indoor environment.

**EASY INSTALLATION**

Landmark units come with a range of convenient features, making installation fast and easy.

- **Insulated base** seals the unit to the rooftop curb without the need for a curb gasket.
- **Single hookup gas connection** eliminates the need for routing the gas line inside the unit.
- **Terminal strip** comes standard for easy control.

**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.

**LANDMARK® HIGHLIGHTS:**

- 2- to 25-ton gas/electric and electric/electric and 2- to 20-ton heat pump configurations
- Up to 23.5 SEER, 22 IEER and 15.0 EER for ultra-high-efficiency units
- Standard- and high-efficiency units available
- More than 100 field-selectable options to ensure fast and easy installation
- Available BACnet® integration
- Optional 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
- Available through select Lennox PartsPlus® stores and Lennox® Commercial distribution facilities

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

**Lennox Commercial Financing**

Financing available through www.lennoxleasing.com
Offering affordable reliability, Raider® rooftop units deliver value without compromise on every job, every time.

If you’re looking for a unit that’s built to last, put your confidence in the Raider® rooftop unit. 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.
- **Reduces total load on roof.**

**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.

*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.
Prodigy® 2.0 redefines sophisticated control.

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
Shows more information in greater detail, simplifying maintenance, service and startup

DEDICATED NAVIGATION AND ADJUSTMENT BUTTONS
Simplify the adjustment of settings and parameters while reducing accidental menu selection

HELP MENU WITH MENU-SPECIFIC CONTENT
Provides quick access to Help screens and important information from any menu

SMARTWIRE™ SYSTEM
Patented technology designed to simplify field sensor and thermostat installation with standardized, color-coded wires and terminal blocks

INTEGRATED USB PORT
Allows quick, easy firmware updates and lets technicians download service reports

BACNET®/LONTALK® COMPATIBILITY
Integrates seamlessly with existing building management and monitoring systems

THE HELPFUL, CONVENIENT PRODIGY APP
Available on iTunes and Google Play, the Prodigy App puts a wealth of helpful resources on your smartphone and at your fingertips, including:

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

Humiditrol® features and benefits.
- Easy to use, integrated dehumidification system that controls humidity independent of temperature
- Effectively reduces the spread of allergens such as mold, mildew and dust mites
- Significantly improves indoor air quality (IAQ) and comfort

Environ™ features and benefits
Lennox’ Environ™ Coil System uses a series of channels, which allow the coil to operate with significantly less refrigerant—up to 52% less than typical units—without sacrificing cooling performance. This makes the units more environmentally friendly, which may help them qualify for additional LEED® points. The all-aluminum coil is up to 59% lighter, lowering the rooftop unit’s weight. Plus, the Environ Coil System is built to avoid damage and stand up to the rigors of everyday use.

MSAV® features and benefits
Optional MSAV® supply fan technology easily adapts to changing conditions, delivering year-round savings and optimal comfort. Quiet, efficient and with an advanced variable-frequency drive, the MSAV supply fan also enhances system performance significantly.
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

OUTDOOR UNITS

• DC inverter compressors maximize system life
• DC fan motors provide energy savings
• Innovative fan blade design minimizes noise
• Energy-smart night mode increases efficiency and lowers sound levels
• Connect to up to 3,280 ft. of piping for installation flexibility

INDOOR UNITS

• Flexible configurations for nearly any structure or floor plan
• Auto-restart restores operation after a power failure
• Automatic addressing simplifies setup and installation
• Washable filter preserves air quality
• Pre-heating prevents cold air from circulating during heating mode
• Remote on/off for convenience and energy savings

Low Ambient Heat Recovery and Low Ambient Heat Pump Outdoor Unit
Heat Recovery and Heat Pump Outdoor Unit
Mini-VRF Outdoor Unit
Wall-Mount
360° Compact Cassette
360° Cassette
Ceiling and Floor Mount
High-Static Ducted Unit
Medium-Static Ducted Unit
Vertical Air Handler
MODE SELECTION BOXES
Available in four 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 1,024 indoor units
- Controls up to 64 VRF systems

Additional Accessories
- BACnet® Gateway
- Remote-Mounted Return Air Sensor
- LonWorks® Gateway
- Infrared Sensor Kit
- Key Card Interface
- HHE Relay Kit-Four Dry-Contact Board

LENNOX VRF & MINI-SPLITS MODELE 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.

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**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 24.5 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

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**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% heating and cooling capacity at 0°F, with a wide ambient temperature operating range:
  - Cooling: -22° to 122°F
  - Heating: -22° to 86°F
- Efficiency ratings up to 24 SEER and 11 HSPF
- Single- and multi-zone compatible:
  - Single zone available 0.75 to 2 tons
  - Multi zone from 1.5 to 3 tons up to 4 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, and 3PB036
- Multi Zone: MPB018 thru 048

Air Conditioner Units
- Single-Zone: MCA009 thru 024

Low Ambient Heat Pump Units
- Single Zone: MLA009 thru 024
- Multi Zone: MLA018 thru 036

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 ºC 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
Building automation and controls solutions

BACNET® AND LONTALK® MODULES
Communication using the HVAC industry’s most popular open-standard protocols.

• Modules allow communication with building automation systems that support the BACnet® Application-Specific Controller device profile or the LonMark® Space Comfort Controller or Discharge Air Controller functional profiles

• A Lennox® zone sensor, a BACnet network zone sensor, BACnet thermostat controller or LonTalk® network zone sensor may be used to send the zone temperature or thermostat demands to the Prodigy® 2.0 Unit Controller

• Prodigy 2.0 Unit Controller is BTL-listed and LonMark-certified

BUILDING AUTOMATION SYSTEM
iCON™ is a complete building automation system perfect for multi-site retailers and restaurants. This advanced system allows remote monitoring and control of individual buildings as well as enterprise-wide management of a fleet of locations. As a turnkey solution provider, Lennox offers control of the entire process, from project management to installation and commissioning, and optionally through a managed service to monitor and service the facilities.

• Affordable, modular enterprise solution
• Advanced HVAC rooftop unit control
• Factory programming and commissioning
• Premier monitoring and service option
COMFORTSENSE® 8500 COMMERCIAL PROGRAMMABLE THERMOSTAT SERIES

• Multipurpose thermostat 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 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 Prodigy 2.0, 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

COMFORTSENSE® 3000 COMMERCIAL THERMOSTAT

• Weekdays and weekends programmable with up to four time periods per day
• Large display and buttons for ease of use and convenience
• Intuitive, advanced electronics for precise control of temperature
• Stylish design complements any interior setting
• Designed specifically for commercial applications
Superior engineering and durable design help achieve low lifecycle costs

**AIR CONDITIONERS AND HEAT PUMPS**

**NEW ELITE™ SERIES**
ELS/ELP 6- TO 20-TON AIR CONDITIONERS AND HEAT PUMPS
- NEW 6- to 20-ton air conditioners
- NEW 7.5- and 10-ton heat pumps
- 2-stage cooling across all tonnages—-for both single- and dual-circuit systems

**EFFICIENCY RATING**
Up to 12.9 IEER

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

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**S-CLASS™ 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

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**T-CLASS™ 3- TO 5-TON AIR CONDITIONERS AND HEAT PUMPS**
- Standard- and high-efficiency units
- Compatible with the Humiditrol dehumidification system, which helps reduce moisture and control the spread of airborne contaminants
- Scroll compressor and other high-quality components
- Operates as quietly as 76 dBA

**EFFICIENCY RATING**
Up to 16.0 IEER and 9.7 HSPF

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

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**INDOOR COILS**

**CX35, CX38 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

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**C33, C35, C37, CR33, CH23, CH33, CH35 INDOOR COILS**
- 1.5- to 5-ton capacities
- Uncased (C33) models
- Cased models with all-aluminum design—-aluminum tube and fin (C35 and CH35) AG input
- Upflow configuration (C33 and C35)
- Horizontal configuration (CH33, CH23 and CH35) AG input
- Downflow configuration (CR33)
- Large face area for high-efficiency operation
- Copper-rifled tubing and enhanced aluminum fins improve heat transfer (C33, C37, CR33, CH23, CH33) 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

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**SPLIT SYSTEMS**
AIR HANDLERS

NEW ELITE® SERIES ELA
6- TO 20-TON AIR HANDLERS
• 6- to 20-ton capacities
• Designed to match the all new Elite Series 6- to 20-ton air conditioners and 7.5/10-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

CBX40UHV AIR HANDLER
• 2- to 5-ton capacities
• Excellent match with high-efficiency S-Class or T-Class outdoor units
• Factory-installed MERV 16 filtration for cleaner, healthier indoor air
• 2-part cabinet construction for installation in tight applications
• Slide-out supply fan for quick and easy maintenance
• Multi-position cabinet with upflow/horizontal or downflow available
• Toolless filter access for quick filter replacement
• Voltage – available in 230/1/60
• Electric heat options – available in 230/1/60 and 230/3/60
• Lennox Quantum™ coil all-aluminum evaporator coil (CBA27)
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
• Multi-position cabinet with upflow/horizontal or downflow configuration
• Multiple blower speeds help provide precise comfort control
• Toolless filter access for quick filter replacement
• 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

CBX25UH/UHV AIR HANDLERS
• 1.5- to 5-ton capacities
• High-value, economical match for S-Class and T-Class air conditioners and heat pumps
• High-efficiency variable speed ECM blower available 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

CBX/CBX27UHE AIR HANDLERS
• 1.5- to 5-ton capacities
• High-static performance for all air conditioners and heat pumps
• 2-part cabinet construction for installation in tight applications
• Slide-out supply fan for quick and easy maintenance
• Dedicated upflow/horizontal configuration with optional downflow kit, field conversion
• Toolless filter access for quick filter replacement
• Voltage options – available in 230/1/60, 460/1/60 and 575/1/60
• 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

SPLIT SYSTEMS
CBA/CBX27UHE AIR HANDLERS
• 1.5- to 5-ton capacities
• High-static performance for all air conditioners and heat pumps
• 2-part cabinet construction for installation in tight applications
• Slide-out supply fan for quick and easy maintenance
• Dedicated upflow/horizontal configuration with optional downflow kit, field conversion
• Toolless filter access for quick filter replacement
• Voltage options – available in 230/1/60, 460/1/60 and 575/1/60
• 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
HEATING UNITS

FURNACES

SLP98V GAS FURNACES
- 66,000–132,000 Btuh
- 33" design profile
- Variable-capacity operation
- SilentComfort™ technology
- Precise Comfort™ and AirFlex™ technologies
- Upflow/horizontal and dedicated downflow configurations
- Reliable SureLight™ igniter
- Multi-speed, direct-drive, slide-out blower and toolless entry for quick maintenance

EL296V/EL296E GAS FURNACES
- 66,000–132,000 Btuh
- 33" design profile
- 2-stage, variable-speed operation
- SilentComfort technology
- Upflow/horizontal or dedicated downflow models available
- Reliable SureLight igniter
- Multi-speed, 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

EL280 GAS FURNACES
- 66,000–132,000 Btuh
- 2-stage heating for improved comfort control
- Upflow/horizontal or dedicated downflow models available
- Sealed blower compartment
- Reliable SureLight igniter
- 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

UNIT HEATERS AND DUCT FURNACES

T-CLASS™ SEPARATED COMBUSTION UNIT HEATERS
- Heating capacities from 40,000–300,000 Btuh
- Compact cabinet design on 40,000 Btuh model
- 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
- Available for natural gas or propane
- Complies with ASHRAE 90.1-2013

EFFICIENCY RATING
Up to 82% 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
FURNACES

**EL195E GAS FURNACES**
- **30,000-132,000 Btuh**
- **33” design profile**
- Single-stage gas heating
- Upflow/horizontal or dedicated downflow models available
- Constant-torque Power Saver technology increases system efficiency
- Fully insulated for quiet, efficient operation
- Reliable SureLight igniter
- Multi-speed, direct-drive, slide-out blower and toolless entry for quick maintenance

**EFFICIENCY RATING**
95% AFUE energy efficiency

**WARRANTY**
10-Year Limited Warranty on heat exchanger
1-Year Limited Warranty on covered components

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**EL180E GAS FURNACES**
- **44,000-132,000 Btuh**
- **33” design profile**
- Upflow/horizontal or dedicated downflow models available
- Constant-torque Power Saver technology increases system efficiency
- 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

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**ML193/ML195 GAS FURNACES**
- **44,000-132,000 Btuh**
- **33” design profile**
- Direct or non-direct vent for flexible installation
- Silicone nitride igniter delivers starting reliability
- Upflow/horizontal or dedicated downflow models available
- Multi-speed, direct-drive, slide-out blower and toolless entry for quick maintenance

**EFFICIENCY RATING**
Up to 95% AFUE energy efficiency

**WARRANTY**
10-Year Limited Warranty on heat exchanger
1-Year Limited Warranty on covered components

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**ML180 GAS FURNACES**
- **44,000-132,000 Btuh**
- **33” design profile**
- 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

UNIT HEATERS AND DUCT FURNACES

**LF24 UNIT HEATERS**
- **30,000-390,000 Btuh**
- Use in a wide range of industrial and commercial applications
- Excellent for warehouses, automobile repair facilities and public garages
- Available for natural gas or propane
- Complies with ASHRAE 90.1-2013

**EFFICIENCY RATING**
Up to 81% 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

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**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
- Complies with ASHRAE 90.1-2013

**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
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.

**HUMIDITY CONTROL**

**HUMIDITROL® DEHUMIDIFICATION SYSTEM FOR ENERGENCE® HIGH-EFFICIENCY ROOFTOP UNITS**

- The Humiditrol® system removes up to 8 times more moisture than standard 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
- Enhanced dehumidification available on Energence® and Landmark® rooftop units

**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

**ENERGY COST/YEAR**

![Energy Cost Chart](chart.png)

Calculations based on 1,460 hours of dehumidification per year on 5-ton rooftop unit. Energy cost estimated at $0.13 per kWh.
INDOOR AIR QUALITY

Fresh-air accessories for rooftop units use advanced technology to improve ventilation and increase the energy efficiency of HVAC systems.

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

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 Prodigy® Control System and an economizer or motorized outdoor air damper
• Compatible with non-Prodigy Lennox® rooftop units with an economizer

CLEANING

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

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

MERV AIR FILTERS
• High-efficiency air filters available in MERV 8, 11, 13 and 15
• The highest MERV-rated 2” filter with the lowest energy expense10 based on ASHRAE 52.2-2012 standard
• Removes 85% of particles sized 0.3 to 1.0 micron
• 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

DEDICATED OUTDOOR AIR SYSTEM (DOAS)
A prime solution for demanding ventilation requirements
• Available in three cabinet sizes:
  - B-cabinet is offered in 7, 10, 13, 15 and 20 tons
  - C-cabinet is offered in 15, 20, 26 and 30 tons
  - D-cabinet is offered in 30 and 40 tons, with 52- and 60-ton options coming soon
• Makes it easier to verify sufficient ventilation for the application
• Helps maintain comfortable space conditions
• Conditions 100 percent outdoor air to improve indoor air quality, control relative humidity and simplify design
• Optional energy recovery module available
Advanced engineering software from Lennox will save time and control accuracy

TOTAL COST OF OWNERSHIP™ CALCULATOR
- Helps businesses select the best buy in HVAC by weighing costs for equipment, installation, operation, maintenance and financing
- Web-based application in LennoxPros®
- Continuously refreshed with latest product details

AUTOCAD® TEMPLATES
- Save time by using existing AutoCAD® features to create a plan or elevation view with all current equipment added
- Available at lennoxcommercial.com

REVIT® BUILDING INFORMATION MODELING
- 3-D HVAC models with performance information and all field connection details for electrical, gas, duct and condensate
- Equipment schedules for the models also include cooling/heating capacity and electrical loads
- Available at lennoxcommercial.com
1 Efficiency based on AHRI directory, January 12, 2016.

2 Ultra-high-efficiency packaged units, 3-phase, 17 SEER or IEER and above.

3 Compared to commercial variable-speed models.

4 SmartAirflow™ System — **Saves an average of 26% on annual ventilation energy consumption.** As compared to uncalibrated parallel-blade-design dampers without the SmartAirflow System on a traditional 4-ton unit delivering 1,600 CFM (cubic feet per minute) of supply airflow with 15% outside air requirements where economizer minimum position is set at 15% damper position. Average of cities in ASHRAE climate zones 1-6. Savings will vary with each zone.

5 Raider® Rooftop Units — **Save up to $1,500 on replacement projects.** $1,500 savings is calculated in replacement jobs where the Raider unit matches the footprint, eliminating the need for an adaptor curb, any plumbing, electrical and/or structural engineering costs.

6 SLP98V Gas Furnaces — **The quietest, most efficient furnace you can buy.** Based on sound pressure levels during steady-state, high-fire and low-fire operation of Lennox SLP98VUH070V36B and leading competitive units as of July, 2013 at mid-point temperature rise and minimum external static pressure when set up per Section 4.4.4 of AHRI 260-2012. Efficiency ratings established per test standard: ANSI/ASHRAE 103-2007.

7 SL280V Gas Furnaces — **The most quiet furnace in its class.** Based on sound pressure levels during steady-state, high-fire operation of Lennox SL280UHV070V36A and leading competitive units at mid-point temperature rise and minimum external static pressure when set up per Section 4.5.3 of AHRI 260.

8 Humiditrol® dehumidification system — **Removes up to 8 times more moisture than standard rooftop units.** At 65°F, Lennox’ Humiditrol dehumidification system removes more than 1.44 gallons of water an hour.

9 Select units will also require the equipment interface module.

10 When considering all 2” filters with MERV 15 ratings at 492 fpm. Claim pertains to Lennox MERV 15 24”x24”x2” filter, which has the lowest pressure at 492 fpm among 2” MERV 15 filters. Claim references the reduced energy expense of running a lower pressure-drop media compared to a filter with a higher pressure drop, while maintaining high particle capture without increasing energy costs associated with fan-energy consumption. Established through internal review of comparative literature available to the general public in June, 2007.

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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.

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.

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BACnet is a registered trademark of ASHRAE.
**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**
- Emergence® Rooftop Units
- Strategos® Rooftop Units
- Landmark® Rooftop Units
- Raider® Rooftop Units
- Accessories

**VRF**
- Outdoor Units
- Indoor Units
- Controls
- Accessories

**HEATING**
- Unit Heaters
- Duct Furnaces
- Furnaces

**SPLIT SYSTEMS**
- Elite® Series Large Split Systems
- S-Class® Air Conditioners/Heat Pumps
- T-Class™ Air Conditioners/Heat Pumps
- Air Handlers
- Indoor Coils

**MINI-SPLIT SYSTEMS**
- Heat Pump Mini Splits
- Low Ambient Heat Pump Mini Splits
- Indoor Units
- Controls

**COMMERCIAL CONTROLS**
- iCON™ Building Automation System
- Systems Integration Solutions
- Commercial Thermostats

**INDOOR AIR QUALITY**
- Dedicated Outdoor Air System™
- Humiditrol® Dehumidification System
- Demand Control Ventilation
- Air Filters
- UVC Lamps