

**QUICK
REFERENCE
GUIDE**

2010 Commercial Product Guide



LENNOX
Innovation never felt so good.™

Helping HVAC professionals take the LEED®



LEED is a third-party certification program created by the U.S. Green Building Council that encourages the adoption of sustainable green building and development practices. Known officially as the Leadership in Energy and Environmental Design Green Building Rating System™, LEED is recognized as the national benchmark for the design, construction and operation of high-performance green buildings.

LEED gives building owners and operators the tools they need to have an immediate and measurable impact on their buildings' performance. LEED promotes a whole-building approach to sustainability by recognizing performance in five key areas of human and environmental health: sustainable site development, water savings, energy efficiency, materials selection and indoor environmental quality.

Why green building is important

LEED-certified projects cost less to operate and maintain than traditional buildings, are energy- and water-efficient and have higher occupancy rates than conventional buildings in the same market.* In addition, green building is important to the protection of ecosystems, to maintain safe air and water quality and to conserve renewable and nonrenewable natural resources.

LEED certification, which includes a rigorous third-party commissioning process, offers compelling proof to you, your clients, your peers and the public at large that you've achieved your environmental goals and your building is performing as designed. Getting certified allows you to take advantage of a growing number of state and local government incentives, and can help boost press interest in your project.



Lennox is a committed member of the U.S. and Canada Green Building Councils

*Benefits of LEED certification, U.S. Green Building Council, www.usgbc.org

Why choose Lennox?



Engineers find answers for a wider range of applications

Lennox has designed a variety of products to exceed engineers' performance needs, including sophisticated comfort and control systems that help lower total cost of ownership. Advances include superior energy efficiency in rooftop units, products for improving indoor air quality and a higher level of automation.

Accurate and accessible product information makes selection easier. Every Lennox® product is built to demanding ISO-9001 manufacturing standards and backed by excellent warranties. Lennox continues to be the supplier engineers count on for reliable, efficient HVAC solutions.

Our Commercial Application Support Teams work directly with specifying engineers to ensure they have the necessary tools to select our equipment, as well as answer any questions regarding the application. That's why thousands of engineers trust Lennox as their single source for many light commercial applications.



Contractors have better options for more jobs

From some of the industry's most advanced, energy-efficient systems to durable and rugged value-priced options, Lennox makes it easier for contractors to provide a winning bid on a variety of projects.

Independent contractors have awarded Lennox their highest honors for products that are easily installed and serviced. Saving time saves money.

Contractors who use Lennox stand apart as providers of innovative answers to many HVAC problems. Through Lennox' direct sales channel, contractors work directly with the manufacturer to select the best products. From in-stock products delivered in 24 to 48 hours from regional distribution centers across the U.S. and Canada, to configured-to-order products delivered in just weeks, contractors can rely on Lennox for availability.



Business owners choose Lennox for comfort and savings

As much as 40–60% of a commercial building's energy is used to run its HVAC system, according to the Office of Energy Efficiency and the U.S. Department of Energy.* Focusing on making the HVAC system work more efficiently can dramatically reduce a company's energy costs, and save businesses money in the short and long runs.

Lennox products can help keep a strong focus on the bottom line with efficient, high-performance HVAC systems that meet the comfort needs of employees, customers and clients.

Finally, Lennox' high-quality products are backed by extensive warranties that ensure the quality commitment we make to our customers is always delivered.

*U.S. Department of Energy, www1.eere.energy.gov/buildings/commercial/hvac.html

Saving Energy with Intelligence™

Energence™ rooftop units intelligently achieve the lowest total cost of ownership



Introducing Lennox' innovative light commercial rooftop unit—the Energence™ rooftop unit product line. Energence rooftop units provide the lowest total cost of ownership by lowering energy costs through an ultra-efficient design and a unique intelligent controls system. With the Prodigy™ control system, Energence units give you the verification you need: that your units have been installed properly and are operating as intended. Standard on every Energence rooftop unit, the Prodigy control system features an intuitive user interface that makes setup, troubleshooting and servicing easier than ever. Each unit tracks the runtime of every major component and records the date and time when service or maintenance is performed. This information can easily be downloaded and transferred via a standard USB flash drive. The control system intelligently operates the rooftop unit to help ensure reliability, maximum efficiency and comfort.

Another advanced feature is the SmartWire™ system, which simplifies field sensor or thermostat installation through innovative connectors that are keyed and color-coded to help prevent miswiring. Not only is the wire coloring scheme standardized across all models, but also each connection is intuitively labeled to make troubleshooting and servicing quick and easy.

Optimum energy efficiency

Energence rooftop units optimize energy usage while providing year-round comfort. Available features minimize blower power during economizer free-cooling mode and the optional blower belt auto tensioner can maintain proper tension of the blower belt, increasing system reliability. The system can also self-monitor and verify the performance of the unit in real time, providing confirmation that the unit is operating efficiently.

Maintain comfort

All Energence rooftop units can be equipped with Lennox' patented Humiditrol® dehumidification system for optimum comfort in all environments. Certain models can be equipped with an enhanced Humiditrol dehumidification system that removes humidity more efficiently than typical hot-gas reheat systems. Multiple cooling stages (up to four) are available on most Energence models, reducing temperature swings and maintaining tighter temperature control for improved comfort. Built on the Lennox legacy of advanced technology and innovation, Energence rooftop units set the new standard for premium rooftop units.



Energence rooftop units deliver:

- Lowest total cost of ownership without compromising comfort
- The most energy-efficient light commercial rooftop unit¹
- Exceeds ASHRAE 90.1-2010 minimum standards by up to 30%
- The most models in a light commercial rooftop product line that qualify for the highest level of energy rebates²
- Prodigy control system intelligently verifies service, operation, and required setup and configuration
- Helps buildings qualify for the most LEED® points
- The perfect choice for sustainable building design

Save money and improve comfort with the Continuous ComfortSM planned replacement program



One of the quickest ways to lower HVAC energy costs by up to 40% and eliminate HVAC repair costs in the near future is with the Continuous ComfortSM planned replacement program from Lennox. Spending money to patch an old, inefficient system only delays the inevitable and could result in unplanned downtime that disrupts business, customers and employees. New HVAC equipment can be leased with little or no money down and provides the comfort and peace of mind of a smart investment—an investment that pays for itself through lower electric bills and reduced total cost of ownership.

Putting planned replacement to work:

- HVAC equipment installed in the mid-to-late 1990s is nearing the end of its service life (about 12 to 15 years*)
- Maintenance, repair, operating costs and downtime increase as equipment ages
- Emergency repair or replacement is costly and can disrupt business, resulting in customer dissatisfaction and lost sales
- Immediately lower HVAC energy costs by up to 40% with new, high-efficiency equipment
- High-efficiency equipment can also help offset the rising cost of energy and may qualify for energy and green building rebates
- The Continuous Comfort planned replacement program reduces operating, repair and downtime costs and helps plan the time of capital expenditures

Effectively managing costs

At some point, spending money on aging equipment delivers diminishing returns. Invest current and future repair costs in new equipment, which has the added benefit of lowering maintenance costs, due to increased durability and service-friendly features.

Controlling capital expenditures

Planning ahead allows for selecting the best equipment to meet current and future needs. Controlling the timing of any capital expenditures helps manage business finances more efficiently and effectively.

Immediate positive cash flow

With leasing, there may be no up-front costs or down payments required. Combined with lower operating costs of today's equipment and avoided repair costs, new equipment may provide immediate positive cash flow.

Affordable new financing options

The Lennox Commercial FinancingSM program offers affordable finance solutions for light commercial replacement HVAC systems. Flexible monthly payments make it easier to upgrade to a more efficient system. Here are just a few of the other benefits awaiting you:

- Custom-fit financing options
 - Terms from 12–60 months
 - Deferred or structured payments to meet your budget requirements

- Simple, one-page credit application for purchases up to \$75,000
- 24-hour approval for purchases up to \$75,000
- 48-hour approval for purchases over \$75,000

Your HVAC purchases and all associated soft costs are included. Get more details at www.lennoxleasing.com or contact your Lennox representative.



*JP Morgan 2006 HVAC Industry Outlook

Saving Energy with Intelligence™



The most energy-efficient light commercial rooftop unit¹



Energence™ Rooftop Units with the Prodigy™ Control System

- 3- to 50-ton units available in gas/electric and electric/electric configurations
- High-efficiency models that meet or exceed Consortium of Energy Efficiency (CEE) Tier 2 rebate requirements
- Patented Humiditrol® dehumidification system allows for independent control of temperature and humidity, and improves IAQ for customers and employees
- Lowest total cost of ownership without compromising comfort
- The blower belt auto tensioner can maintain proper tension of the blower belt, helping to maintain comfort and system reliability (available as a factory option)
- Standard features such as hinged access panels, isolated compressor compartment and removable drain pan save valuable installation and service time
- MERV 13 filters, factory-installed UVC germicidal lights and foil-faced insulation help improve IAQ
- Corrosion-resistant, removable and double-sloped drain pans provide application flexibility, durability and improved serviceability
- Interoperability via BACnet® and LonTalk® protocols



- The Prodigy™ control system is standard on every Energence rooftop unit
- Intuitive user interface makes setup, troubleshooting and servicing easier than ever
- Tracks the runtime of every major component and records the date and time when service or maintenance is performed
- Intelligently operates the rooftop unit to help ensure reliability, maximum efficiency and comfort
- The SmartWire™ system simplifies field sensor or thermostat installation through advanced connectors that are keyed and color-coded to help prevent miswiring
- The wire coloring scheme is standardized across all models and each connection is intuitively labeled to make troubleshooting and servicing quick and easy

EFFICIENCY RATING:

Up to 17.0 SEER, 12.8 EER and 13.0 IEER

WARRANTY:

15-Year Limited Warranty on stainless steel gas heat exchanger

10-Year Limited Warranty on aluminized gas heat exchanger

5-Year Limited Warranty on compressor

3-Year Limited Warranty on Prodigy unit controller

1-Year Limited Warranty on covered components

PRODIGY™
CONTROL SYSTEM

SMARTWIRE™ SYSTEM

Superior comfort and performance, along with rugged durability, form a complete line of rooftop units.



The most energy-efficient rooftop unit in the industry³



Durable, cost-effective solution for today's environment

Strategos™ High-Efficiency Rooftop Units

- **3- to 24-ton units available in gas/electric, electric/electric configurations**
- Save energy with efficiency ratings that are dramatically higher than ASHRAE 90.1 and exceed ENERGY STAR® requirements
- MSAV™ (multi-stage air volume) supply fan option changes speed based on cooling, heating and ventilation demand to meet comfort requirements with minimal energy
- Integrated Modular Controller and integration with Lennox or third-party automation systems, hinged toolless access panels and slab condenser coil speed up maintenance and reduce associated service costs
- Interoperability via BACnet and LonTalk protocols
- Standard features such as a GFI service outlet, circuit breaker and swing-out economizer hood help save valuable installation and service time
- “Strike-Three” technology and independent refrigerant circuits increase reliability and help prevent unnecessary downtime
- Many standard features instead of options mean faster installation and a more reliable start-up
- All units are factory-tested and configured to further simplify installation and start-up

Landmark™ Rooftop Units

- **2- to 25-ton units available in gas/electric and electric/electric configurations**
- **2- to 20-ton units available in heat pump configuration**
- Reliable, long-lasting construction and excellent warranties guard against unexpected replacement and maintenance costs
- Common components and easy-to-maintain units increase service employee productivity
- High- and low-static airflow capabilities meet the tough demands of replacement and remodeling jobs
- Stocked units and field-installed accessories increase application flexibility
- Meet a variety of applications with easy-to-install field accessories



EFFICIENCY RATING:

Up to 16.1 SEER, 14.3 EER and 16.8 IEER

WARRANTY:

- 15-Year Limited Warranty** on stainless steel gas heat exchanger
- 10-Year Limited Warranty** on aluminized steel gas heat exchanger
- 5-Year Limited Warranty** on compressor
- 3-Year Limited Warranty** on Integrated Modular Controller
- 1-Year Limited Warranty** on covered components

EFFICIENCY RATING:

Up to 13.0 SEER, 11.4 EER and 11.4 IEER

WARRANTY:

- 15-Year Limited Warranty** on stainless steel gas heat exchanger
- 10-Year Limited Warranty** on aluminized steel gas heat exchanger
- 5-Year Limited Warranty** on compressor
- 1-Year Limited Warranty** on covered components

Superior engineering and durable design help achieve low lifecycle costs.

AIR CONDITIONERS AND HEAT Pumps



The most energy-efficient commercial split system⁴



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
- Two-stage scroll compressor
- Operates as quietly as 74 dB
- SmartHinge™ louvered coil protection allows access to interior components on all sides

EFFICIENCY RATING:

Up to 16.5 SEER and 8.5 HSPF

WARRANTY:

5-Year Limited Warranty
on compressor

1-Year Limited Warranty
on covered components

INDOOR COILS



CX34 Indoor Coils

- 1.5- to 5-ton capacities
- Up-flow, 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
- Minimal air resistance for better performance

WARRANTY:

1-Year Limited Warranty
on covered components

AIR HANDLERS



CBX32MV Air Handlers

- 1.5- to 5-ton capacities
- Excellent match with high-efficiency S-Class™ SSB/SPB or T-Class™ high-efficiency TSA* H4 outdoor units
- Two-part cabinet construction for installation in tight applications
- Slide-out supply fan for quick and easy maintenance
- Multi-position cabinet for flexible installation
- Multiple blower speeds help provide precise comfort control
- Toolless filter access for quick filter replacement
- Electric heat available in 230/1/60, 208-230/3/60 and 460/3/60 voltage options

WARRANTY:

1-Year Limited Warranty
on covered components and units



CBX27UH Air Handlers

- 1.5- to 5-ton capacities
- Excellent match with T-Class TSA/TPA outdoor units
- High-static supply fan delivers up to 400 cfm/ton at 0.8" supply external static pressure, meeting the most demanding applications
- Two-part cabinet construction for installation in tight applications
- Slide-out supply fan for quick and easy maintenance
- Multi-position cabinet with up-flow/horizontal configuration
- Toolless filter access for quick filter replacement
- Electric heat available in 230/1/60, 208-230/3/60 and 460/3/60 voltage options

WARRANTY:

1-Year Limited Warranty
on covered components and units



High efficiency

T-Class™ 3- to 5-Ton Air Conditioners and Heat Pumps

- **Standard- and high-efficiency units**
- Excellent energy efficiency
- 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 dB

EFFICIENCY RATING:

Up to 15.0 SEER and 9.0 HSPF

WARRANTY:

5-Year Limited Warranty
on compressor

1-Year Limited Warranty
on covered components



T-Class 6- to 20-Ton Air Conditioners and Heat Pumps

- **6- to 20-ton air conditioners**
- **7.5-, 10- and 15-ton twinned heat pumps**
- Easy access to compressors and service valves
- Corner control panels with DDC expansion space

EFFICIENCY RATING:

Up to 11.20 EER

WARRANTY:

5-Year Limited Warranty
on compressor

1-Year Limited Warranty
on covered components



CR33

CH33

C33, CR33, CH33, CH23 Indoor Coils

- **1.5- to 5-ton capacities**
- Uncased (C33) and full-cased models
- C33 has up-flow configuration
- CH33 and CH23 have horizontal configuration
- CR33 has down-flow configuration
- Large face area for high-efficiency operation
- Copper-rifled tubing and enhanced aluminum fins improve heat transfer
- Long-lasting, painted, galvanized cabinet and plastic drain pans
- Minimal air resistance for better performance

WARRANTY:

1-Year Limited Warranty
on covered components



CBX26UH Air Handlers

- **1.5- to 5-ton capacities**
- Economical match for T-Class TSA/TPA outdoor units
- Multiple blower speeds help provide precise comfort control
- High-quality components and design for great reliability and performance
- Electric heat available in 230/1/60 voltage option

WARRANTY:

1-Year Limited Warranty
on covered components and units



T-Class TAA Air Handlers

- **6- to 20-ton capacities**
- Great match for T-Class 6- to 20-ton air conditioners and heat pumps
- Quick and easy installation with knock-out access to internal refrigerant lines on either end of the unit
- Low-maintenance drive belt tensioning device provides longer belt life and quick belt replacement
- Factory-installed motor and drive kits in standard-, low- and high-static configurations
- Electric heat available in 230/3/60, 460/3/60 and 575/3/60

WARRANTY:

1-Year Limited Warranty
on covered components and units

Minimize energy use and maximize comfort with Lennox® furnaces.

FURNACES



High efficiency & comfort control



G61MP Furnaces

- 44,000–132,000 Btuh
- 2-stage gas heating for improved comfort control
- Multi-position models
- Fully insulated for quiet, efficient operation
- Reliable SureLight® igniter
- Direct-drive slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING:

94.1% AFUE energy efficiency

WARRANTY:

Up to 20-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



Comfort control

G60UH/G60DF Furnaces

- 66,000–132,000 Btuh
- 2-stage gas heating for improved comfort control
- Up-flow/horizontal or down-flow models available
- Fully insulated for quiet, efficient operation
- Reliable SureLight igniter
- Direct-drive slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING:

80% AFUE energy efficiency

WARRANTY:

Up to 20-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components



High efficiency



G51MP Furnaces

- 44,000–132,000 Btuh
- Single-stage gas heating
- Multi-position models
- Dedicated low-speed setting for continuous fan mode
- Fully insulated for quiet, efficient operation
- Reliable SureLight igniter
- Direct-drive slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING:

Up to 92.1% AFUE energy efficiency

WARRANTY:

Up to 20-Year Limited Warranty on heat exchanger

1-Year Limited Warranty on covered components

HEATING UNITS

UNIT HEATERS AND DUCT FURNACES



T-Class™ Separated Combustion Unit Heaters

- Heating capacities from 45,000–300,000 Btuh
- Compact cabinet design on 45,000–75,000 Btuh models
- Ideal for hard-to-heat applications where excessive dust, dirt, humidity or negative pressure is a concern
- The only units to offer tubular heat exchangers throughout the entire product line
- 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 90.1-2001

EFFICIENCY RATING:

Up to 82% thermal efficiency

WARRANTY:

10-Year Limited Warranty on aluminized heat exchanger

1-Year Limited Warranty on covered components



G50UH/G50DF Furnaces

- 44,000–154,000 Btuh
- Up-flow/horizontal or dedicated down-flow models available
- Dedicated low-speed setting for continuous fan mode
- Fully insulated for quiet, efficient operation
- Reliable SureLight igniter
- Direct-drive slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING:

80% AFUE energy efficiency

WARRANTY:

Up to 20-Year Limited Warranty
on heat exchanger

1-Year Limited Warranty
on covered components



G43UF Furnaces

- 44,000–132,000 Btuh
- Direct-vent or non-direct-vent for flexible installation
- Hot surface igniter delivers starting reliability
- Up-flow models available
- Direct-drive slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING:

92.1% AFUE energy efficiency

WARRANTY:

Up to 20-Year Limited Warranty
on heat exchanger

1-Year Limited Warranty
on covered components



G40UH/G40DF Furnaces

- 44,000–154,000 Btuh
- Hot surface igniter delivers starting reliability
- Up-flow/horizontal or dedicated down-flow models available
- Direct-drive slide-out blower and toolless entry for quick maintenance

EFFICIENCY RATING:

80% AFUE energy efficiency

WARRANTY:

Up to 20-Year Limited Warranty
on heat exchanger

1-Year Limited Warranty
on covered components



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 90.1-2001

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



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 90.1-2001

EFFICIENCY RATING:

Up to 81% thermal efficiency

WARRANTY:

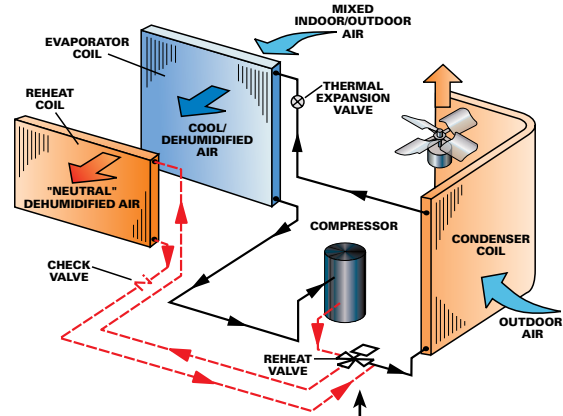
5-Year Limited Warranty
on stainless steel heat exchanger

2-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. Humidity control helps protect comfort and productivity by preventing the growth of mold and bacteria, and controlling the spread of allergens.

HUMIDITY CONTROL



Humiditrol® Dehumidification System for Rooftop Units

- Excellent humidity control in the toughest applications such as mild-temperature, high-humidity days
- Allows humidity control independent of cooling
- Meets ASHRAE 62.1-2007 fresh-air requirements
- Enhanced dehumidification controlled by the Prodigy™ control system on Emergence™ rooftop units

PRODIGY™ CONTROL SYSTEM HUMIDITY SENSOR

PRODIGY™
CONTROL SYSTEM



Humiditrol Dehumidification System for Split Systems

- Precise humidity control for split systems that maintains ASHRAE 62.1-2007 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 ComfortSense™ 7000 Series touchscreen thermostat and Lennox® variable speed furnace or air handler

Comparative Maximum Moisture Removal

Nominal 3-ton unit at 1,050 CFM and entering air temperature at 80°/67°

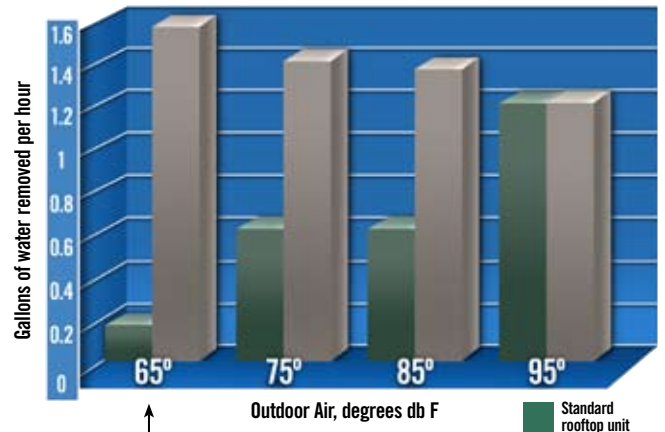


Chart shows the performance of a standard rooftop unit, and a Lennox® rooftop unit with Humiditrol® options.

The Humiditrol® system removes up to 8 times more moisture than standard rooftop units!⁵

At 65°F, Lennox' Humiditrol system removes more than 1.44 gallons of water an hour.

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

VENTILATION



Energy Recovery Ventilator

- 500–10,000 CFM
- Hinged access doors
- Forward-curve, double-inlet blower
- ARI-certified Airchange® wheel
- Enthalpy wheel transfers both heat and moisture
- Large wheels segmented for easy removal for cleaning
- Galvanized, enamel-paint-finished cabinet
- Full-perimeter base rail



Energy Recovery System

- 300–6,200 CFM
- Available with most rooftop units
- Enthalpy wheel transfers heat and moisture
- ARI-certified Airchange 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
- Large wheels segmented for easy removal and cleaning



CO₂ SENSOR

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 control system Lennox rooftop units with an economizer



Energy Recovery Wheel

- Factory-installed option on Energence 35- to 50-ton rooftop units
- ARI-certified Airchange wheel
- Completely welded, stainless steel construction for corrosion resistance and long life
- Removable energy transfer segment for easy cleaning and replacement
- Washable energy transfer segment for long life and sustained effectiveness
- Permanently bonded silica gel desiccant for long life
- UL®-recognized component

CLEANING



UVC Germicidal Lamps

- Designed for Energence and Landmark™ rooftop units; also available in 3- to 20-ton split system air handlers
- 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)



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 expense⁶ based on ASHRAE 52.2-2007 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

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

The L Connection® Network is a commercial building control system that offers advanced control for saving time and money. It's the efficient way to control HVAC and building operations.

L CONNECTION® NETWORK

The network manager provides a central point of advanced control

Network Control Panel

located in facility manager's office

- Large screen and four-button control provide a user-friendly interface to HVAC equipment and building functions
- Customized settings with time-of-day scheduling, temperature, CO₂, ventilation and humidity control
- Date- and time-stamped alarm codes
- Auto-poll start-up feature greatly reduces installation time and expense
- Easily field-upgraded without losing programs or schedules
- Provides a written description of each controller's alarm codes



Controllers connect equipment to the network

Building Controller

located in control room or mechanical room

- Schedule basic building operations such as lights, signs and exhaust fans
- Built-in diagnostics and alarm codes speed troubleshooting



Prodigy™ Control System

standard on every Energence™ rooftop unit

- Intuitive user interface makes setup, troubleshooting and servicing easier than ever
- Each unit tracks the runtime of every major component and records the date and time when service or maintenance is performed
- Intelligently operates the rooftop unit to help ensure reliability, maximum efficiency and comfort



PRODIGY™
CONTROL SYSTEM

Network Thermostat Controller

integrates electromechanically controlled HVAC equipment

- Monitors and controls Lennox® split systems and rooftop units, as well as electromechanically controlled third-party equipment
- Up to two-heat, three-cool capability
- Can be combined with optional bypass controller for constant-volume bypass zoning applications
- Fused outputs and override switches simplify installation, testing, setup and provide added protection



Zone Controllers and Sensors provide control at each zone

Zone Link

located in the rooftop unit or mechanical room



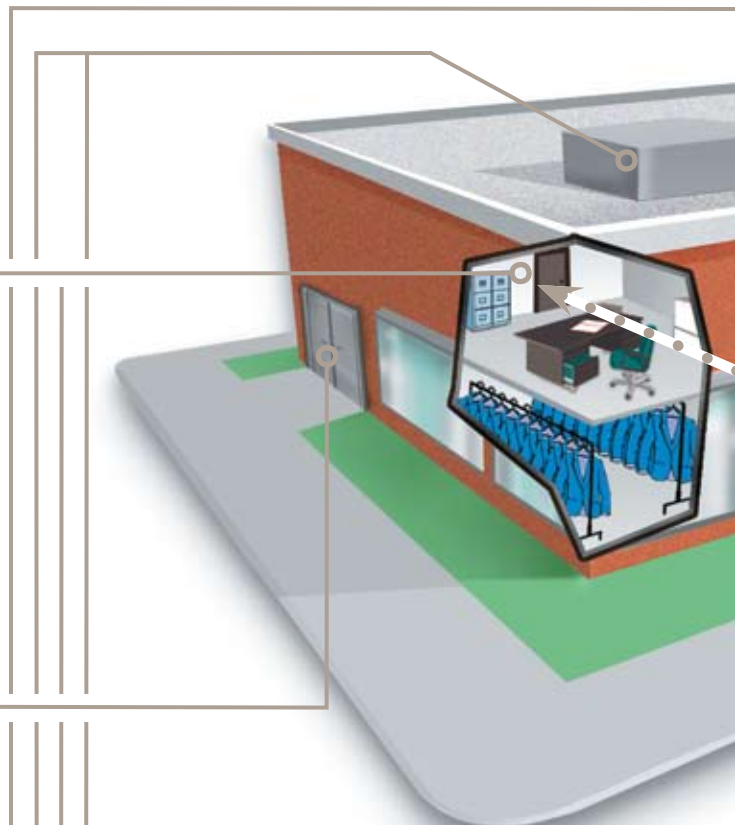
- Coordinates up to 31 Comfort Sensors connected to a zoned rooftop unit
- Counts heating and cooling votes from Comfort Sensors and signals the rooftop unit to change modes according to its configuration
- Can be used to expand L Connection® Network to coordinate up to 93 unit controllers per network

Comfort Sensor

located in each zone



- Temperature sensor with optional relative humidity and/or carbon dioxide sensing capabilities
- Controls zone damper or variable-air-volume terminal box in zoning applications to maintain space temperature and indoor air quality
- Optional LCD user interface with sensor readings and easy temperature adjustment





Contractor's Management Office



Unit Controller Software



Network Control Panel Software



L Connection® Network Modem

- Configured specifically for the L Connection Network
- Plug-and-play device requires no modification
- Use with L Connection Network software for access from a remote site



L Connection Network Ethernet Converter

- Configured specifically for the L Connection Network
- Allows users to monitor and control devices on the L Connection Network via their existing Ethernet local area network (LAN)
- Can be used to monitor and control devices on the L Connection Network remotely via the Internet⁷
- Can be used with Unit Controller Software and/or Network Control Panel Software

Superior temperature control is easy and efficient.

THERMOSTATS



COSTAT02AE1L Commercial Touchscreen Thermostat

- User-friendly touchscreen for effortless temperature control
- Simple operation with sophisticated features and capabilities
- Designed for wall or remote programming
- Seven-day programmable with up to four time periods per day
- Compatible with almost any heating and cooling system

SYSTEMS INTEGRATION

BACnet® Module

- Communication using one of the HVAC industry's most popular open standard protocols
- Communicates with building automation systems that support the BACnet Application-Specific Controller device profile
- A Lennox® zone sensor, BACnet network zone sensor or a BACnet thermostat controller may be used to send the zone temperature or thermostat demands to the Prodigy™ control system
- Prodigy control system is BTL-listed to help ensure easy integration



LonTalk® Module

- Communication using one of the HVAC industry's most popular open standard protocols
- Communicates with building automation systems that support the LonMark Space Comfort Controller or Discharge Air Control functional profiles
- A Lennox zone sensor or a LonTalk network zone sensor may be used to send the zone temperature to the Prodigy control system
- Prodigy control system is LonTalk-certified





COSTAT10AE1L
Digital Non-Programmable Thermostat

- Simple up-and-down arrows for intuitive temperature adjustments
- Easy-to-read digital interface that displays operational status
- Includes automatic changeover, anticipation, droop and short-cycle protection

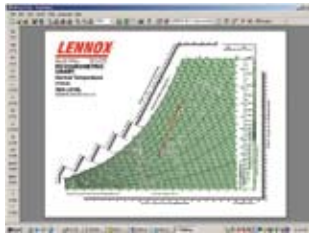


COSTAT12AE1L
Digital Non-Programmable Thermostat

- Large display and buttons for ease of use and convenience
- Intuitive, advanced electronics for precise control of temperature
- Stylish design complements any interior setting

Advanced engineering software from Lennox will save time, control accuracy.

ENGINEERING TOOLS



Psychrometric Chart Software

- Produces psychrometric charts of superior accuracy, including complete psychrometric and process analyses and professional state point and process reports



Elite CHVAC Load Calculation Software

- Quickly and accurately calculates maximum heating and cooling loads, automatically providing cooling and correction factors, even outdoor design weather data for 2,000 cities



AutoCAD® Templates

- Save time by using existing AutoCAD features to create a plan or elevation view with all current equipment added



Total Cost of Ownership™ Calculator

- Helps businesses select the best buy in HVAC by weighing costs for equipment, installation, operation, maintenance and financing

Rivit® Building Information Modeling

- Three-dimensional HVAC units 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

Energy Recovery Ventilators Software

- Calculate supply air conditions, design loads, system capacity saved, effectiveness, annual energy analysis and combined efficiency analysis

Refrigerant Piping Software

- Calculates equivalent feet of piping, pressure drop, etc. of refrigerants R-22, R-134A, R407C and R-410A

COMMERCIAL CONTROLS SOFTWARE



L Connection® Network Control Panel Software

- Schedule, monitor and control the entire L Connection® Network
- Configures alarms to automatically send e-mail, page, or text message notification to a facility manager or servicing contractor before problems get out of hand
- Records trends based on over 25 user-selectable data points that can be automatically graphed using Microsoft® Excel
- Generates, saves and prints a variety of reports
- Connects to the network locally, or remotely through a modem, via an Ethernet network or via the Internet⁷



Unit Controller Software

- Commission, monitor and control unit controllers, including Integrated Modular Controllers
- If used with the L Connection Network, can control Network Thermostat Controllers or Building Controllers
- Connects to the network locally, or remotely through a modem, an Ethernet network or via the Internet⁷

L Connection Network Emulator Software

- Provides a simulation of the capabilities of our Commercial Controls software packages

L Connection Network Product Selection Software

- Generate submittal documents and create a bill of materials

Endnotes

¹ Emergence™ Rooftop Units—**The most energy-efficient light commercial rooftop unit.** Claim pertains to 17.00 SEER rating on LGH060H4 3-ton unit, based on comparison of publicly available information regarding seasonal energy efficiency ratio (SEER) for single packaged rooftop units 3 to 25 tons, G/E, E/E, or cooling only 3-phase voltage. Established through an internal review of competitive literature, May 2010.

² Emergence Rooftop Units—**The most models in a light commercial rooftop product line that qualify for the highest level of energy rebates.** Pertains to G/E, 3- to 20-ton models only. Ten models qualify for CEE's highest level of energy rebates (Tier 2). Established through an internal review of competitive literature, May 2010.

³ Strategos™ Rooftop Units—**The most energy-efficient rooftop unit in the industry.** Claim pertains to 14.3 EER rating for the SCA036H4B 3-ton unit, based on comparison of publicly available information regarding steady-state efficiency (EER) for single packaged rooftop units, 3 to 24 tons, G/E, E/E or cooling only, 3-phase voltage. Established through internal review of competitive literature, October 2009.

⁴ S-Class™ Air Conditioners (SSB) and Heat Pumps (SPB)—**The most energy-efficient commercial split system.** Refers to commercial split system (AC and HP) 3- to 5-ton 208-230/3 phase or 460 volt product line when compared to other non-Lennox brands. Lennox model number SSB036H41Y ranks highest in energy efficiency when compared to other non-Lennox split system units. Established through internal review of competitive literature available to the general public in March 2007. Efficiency ratings established per ARI's test standards: ANSI/ARI 210/240-94.

⁵ 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.

⁶ 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.

⁷ Requires access to Ethernet local area network via the Internet.

Due to Lennox' ongoing commitment to quality, all specifications and ratings are subject to change.

For full warranty details, see actual warranty certificate.

ENERGY STAR® qualification—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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Notes:

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

- Strategos™ Rooftop Units
- Emergence™ Rooftop Units
- Landmark™ Rooftop Units

Split Systems

- S-Class™ Air Conditioners/Heat Pumps
- T-Class™ Air Conditioners/Heat Pumps
- Air Handlers
- Indoor Coils

Heating

- T-Class Unit Heaters
- Unit Heaters
- Duct Furnaces
- Furnaces

Commercial Controls

- Prodigy™ Control System
- L Connection® Network
- Systems Integration Solutions
- Commercial Thermostats

Indoor Air Quality

- Humiditrol® Dehumidification System
- Demand Control Ventilation
- Energy Recovery Ventilators/Systems
- Air Filters
- UVC Germicidal Lights

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Innovation never felt so good.™

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