

MODEL

Lennox consistently delivers the most innovative and highest **Quality** HVAC solutions engineered with **performance** for the end-user and serviceability for the technician.

Heat Pump and Heat Recovery Outdoor Units

• 6 to 42 ton capacities

Model L[™] Rooftop Units

1 1

- Up to 22.5 SEER, 15.0 EER and 23.3 IEER • The most efficient rooftop units in their class
- Common cooling platform featuring a lead, variable-speed compressor simplifies installation, service, and integration
- Single-zone and multi-zone VAV operation available on all units Lennox[®] CORE Control System and mobile service app make setup and service faster than ever before
- Standard BACnet[®] IP and MS/TP and optional LonTalk[®] protocols
- Optional wireless zone sensors provide installation flexibility • Standard variable-speed supply fan achieves up to 75% fan power savings¹
- Standard DirectPlus[™] blower system on 3 to 12.5 ton units
- • Up to 14.8 EER, 26.2 IEER, and 32.8 SCHE • Industry-first hinged service doors for tool-less access Built-in LCD service console to start-up, commission, and H service without additional software or gauges. Inverter-driven enhanced vapor-injection compressor technology for maximum performance and efficiency Industry-best Simultaneous Cooling & Heating Efficiency (SCHE) Hinged electrical box and front-mounted compressor for ease of service and maintenance Intelligent lead/lag operation helps extend system life Configurable night-mode operation reduces sound levels • Voltage — available in 208-230/3/60 and 460/3/60 • Compatible with AHU kit to connect third party coils

V33B 360° Cassette Non-Ducted Indoor Units

- 0.75 to 4 tons
- Sound levels as low as 35 dBA
- 360° airflow for uniform temperature distribution
- Voltage available in

LENNOX VRF

Low Ambient Heat Pump and Heat Recovery Outdoor Units

- 6 to 30 ton capacities
- Up to 85% heat capacity at -130F
- Guaranteed heating operation down to -220F
- Up to 14.8 EER, 26.6 IEER, and 33.9 SCHE Sound levels as low as 62 dBA
- Dual inverter-drive compressors reduce energy usage by varying compressor speed in response to capacity demand
- Accelerated defrost cycle lasts as little as 4 minutes • Hinged electrical box and front-mounted compressor for ease of
- service and maintenance Intelligent lead/lag operation helps extend system life
- Configurable night-mode operation reduces sound levels
- Voltage available in 208-230/3/60 and 460/3/60 Compatible with AHU kit to connect third party coils

Non-Ducted Indoor Units 1 to 4 tons

- Sound levels as low as 36 dBA
- Multi-position design mounts

– SPLIT SYSTEMS –

ELITE[®] SSB/SPB

VOSB Outside Air Ducted

• Up to 1" of external static pressure

Indoor Units

3 to 8 tons

- Air Conditioners and Heat Pumps • 3 to 5 ton high-efficiency units • Up to 16.5 SEER and 9.5 HSPF • Humiditrol dehumidification system compatible • 2-stage scroll compressor
- Operates as quietly as 76 dBA • SmartHinge[™] louvered coil protection

- Sealed blower compartment
- Duralok[™] heat exchanger Low NOx

• Expanded venting options

• 44,000–132,000 Btu/h

• 96% AFUE

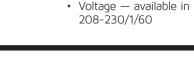
2-stage heating



ML193E/ML196E Gas Furnaces • 44,000-110,000 Btu/h

Low NOx

- Up to 93% AFUE
- Single stage heating Constant torque fan motor, slide out blower
- and tool-less entry
- Upflow/horizontal or dedicated downflow models available
- Duralok Plus heat exchanger



ELITE

Cassette Non-Ducted

0.5 to 1.25 tons

360° airflow for

distribution

• Auto-swing louvers

Sound levels as low as

uniform temperature

Indoor Units

23.4 dBA

VOWA One Way Cassette V22B Compact 360°

Non-Ducted Indoor Units

0.5 to 2 tons

Outside air knockout

(1.25 to 2 tons only)

Elite Series ELA 6 to 20 Ton Air Handlers

VRHC Hot Gas

Designed for use

with the VOSB

ducted models to

reheat functionality.

nrovide hot gas

outdoor air concealed

Reheat Unit

- 6 to 20 ton capacities • Designed to match the all-new Elite Series 6 to 20 ton
- air conditioners and 6, 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

SL99V Gas Furnaces

66,000-132,000 Btu/h • Up to 99% AFUE

OUTDOOR UNITS

INDOOR UNITS

VWMB Wall-Mount

Non-Ducted

Indoor Units

0.5 to 2.5 tons

as 29 dBA

• Auto-swing louvers

Sound levels as low

Voltage — available in

208-230/1/60

Multi-directional piping options

Elite[®] ELS/ELP 6 to 20 Ton

• 6 to 20 ton air conditioners

• 16.0 IEER (AC)*

• NEW 6 and 10 ton heat pumps

Air Conditioners and Heat Pumps

• Up to 14.4 IEER and 3.4 COP (HP)

• Meets or exceeds requirements for

IECC 2015 and Title 24

• Two stage cooling for all single circuit systems

Three stage cooling for all dual circuit systems

- Modulating heat operation
- Variable speed fan motor, slide out blower and tool-less entry
- SilentComfort[™] fan motor
- Precise Comfort[®] design
- Upflow/horizontal and dedicated downflow configurations
- Duralok Plus[™] heat exchanger Low NOx

EL196E Gas Furnaces

- 44,000-110,000 Btu/h 96% AFUE
- Single-stage gas heating
- Constant torque fan motor, slide out blower and tool-less entry
- Upflow/horizontal or dedicated downflow models available
- Duralok Plus heat exchanger
- Reliable SureLight ignitor Low NOx

SL280V Gas Furnaces • 66,000–132,000 Btu/h

- 80% AFUE
- 2-stage heating • Variable speed fan motor, slide out blower
- and tool-less entry
- SilentComfort fan motor • Upflow/horizontal or dedicated downflow
- models available
- Reliable SureLight ignitor



ML296V Gas Furnaces 44,000–110,000 Btu/h

- 96% AFUF
- 2-stage heating

Low NOx

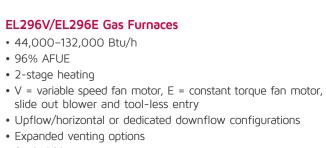
- Variable speed fan motor, slide out blower
- and tool-less entry • Upflow/horizontal or
- dedicated downflow configurations
- Duralok Plus heat exchanger



- Auto-swing louvers
- 208-230/1/60
- Auto-swing louvers Voltage — available in 208-230/1/60
- VCFB Ceiling/Floor Mount vertically or horizontally

• Discharge air temperature controlled Supports 3rd party reheat. preheat, dampers and CO2 sensors





LENNOX) Commercial Product Solutions

LENNOX SERIES ROOFTOP UNITS



• 3 to 25 ton ultra-high efficiency gas/electric and electric/electric units

- Standard Enhanced Dehumidification mode provides additional dehumidification during cooling demands
- Complete comfort with Humiditrol[™]+ hot gas reheat dehumidification system

ENLIGHT



Enlight[™] Rooftop Units

LENNOX) REAL

Sound levels as low as 40 dBA

handlers or furnaces and coils

Connect up to 9 indoor units

• 1.5-5 ton single and dual fan heat pump

• Operation down to -13°F in heating

Compatible with VRF indoor units and

• Voltage — available in 208-230/1/60

conventional indoor units such as Lennox air

- 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, 13.5 EER and 17.0 IEER
- Exceeds Department of Energy 2023 IEER minimum standards by up to 21%
- MSAV[®] supply fan achieves up to 75% fan power savings¹
- Improved comfort with patented Humiditrol[®] dehumidification system⁸ • Lennox[®] CORE Control System and mobile service app simplifies setup and service
- Standard BACnet[®] IP and MS/TP and optional LonTalk[®] protocols
- Optional wireless zone sensors provide installation flexibility
- Environ[™] coil system maximizes reliability and sustainability





VSEA/VSCA Floor Console Indoor Units

• 7,000-24,000 btu/h capacities

Compact Installation

(Cased models only)

• Optional built-in controller

• 2-, 4-, 6-, 8-, 10-, and 12-port configurations Key component in a Lennox VRF

Mode Selection Box

- heat recovery system Independent operating mode for each port
- Dedicated sub-cooling circuit for each port
- Up to 5 indoor units or 54,000 Btu/h per port • Voltage — available in
- 208-230/1/60



VHIB High-Static Ducted Indoor Units 1 to 8 tons

- Up to 1.13" of external static pressure
- Secondary drain pan comes standard
- Voltage available in 208-230/1/60



VVCB Vertical Air Handling Ducted Indoor Units

- 1 to 5 tons Up to 0.8" of external
- static pressure • Vertical, horizontal-right or
- horizontal-left installation Optional electric heat up
- to 20 kW • Voltage — available in 208-230/1/60

ENER*GENCE*.

Energence[®] Rooftop Units

- 20 to 50 ton gas/electric and electric/electric units • Up to 12.5 EER and 15.5 IEER
- Exceeds ASHRAE 90.1-2010 IEER minimum
- standards by up to 42% • MSAV[®] supply fan achieves up to 75%
- fan power savings¹

OUTDOOR UNITS

LOW AMBIENT HEAT PUMPS

ML-SERIES OUTDOOR UNITS

Single-Zone Heat Pump Units

0.75 to 4 tons

HEAT PUMPS

0.75 to 4 tons

1.5 to 4 tons

HEAT PUMPS

0.75 to 2 tons

• Efficient performance down to -22°F

• Up to 25.5 SEER2 and 12.6 HSPF2

• Sound levels as low as 54.5 dBA

MP-SERIES OUTDOOR UNITS

Single-Zone Heat Pump Units

• Up to 24.6 SEER2 and 11.5 HSPF2

• Sound levels as low as 53 dBA

Multi-Zone Heat Pump Units

• Up to 24.6 SEER2 and 10.5 HSPF2

Sound levels as low as 58.5 dBA

MH-SERIES OUTDOOR UNITS

Single-Zone Heat Pump Units

• Up to 21.5 SEER2 and 9.4 HSPF2

• Sound levels as low as 53.5 dBA

• Supports heating and cooling in one zone

Supports heating and cooling in up to five zones

• Supports heating and cooling in one zone

 Improved comfort with patented Humiditrol[®] dehumidification system⁸

-FURNACES AND UNIT HEATERS-

EL280 Gas Furnaces

- 66,000-132,000 Btu/h • 80% AFUE
- 2-stage heating
- Constant torque fan motor, slide
- out blower and tool-less entry Upflow/horizontal or dedicated
- downflow models available Sealed blower compartment
- Duralok Plus heat exchanger

ML180E/ML180V Gas Furnaces • 44,000-132,000 Btu/h

- 80% AFUE
- Single stage heating
- Constant torque fan motor, slide out blower and tool-less entry
- Upflow/horizontal or dedicated downflow models available
- Duralok heat exchanger

- Air Conditioners and Heat Pumps
- 3-Phase Heat Pump

VMDB Medium-Static Ducted

Sound levels as low as 29 dBA

Compact construction requires less

than 10" clearance above ceiling

Rear (standard) or bottom return

• Voltage — available in 208-

Indoor Units

0.5 to 4 tons

230/1/60

 3 to 5 ton • Up to 16.0 SEER and 9.0 HSPF

Merit[®] ML14XP1/ML14XC1

- Sound levels as low as 79 dBA
- Lennox Quantum[®] Coil for superior corrosion resistance



LF25 UNIT HEATERS

- 30,000-400,000 Btu/h
- Up to 83.8% thermal efficiency
- 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 • Two stage heating now standard on 250,000-400,000
- BTU/h models
- LS25 Separated Combustion Unit Heaters • Heating capacities from 30,000-400,000 Btu/h
- · 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
- 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

- Sidewall venting eliminates roof penetrations





XION[™] Rooftop Units

- 2 to 25 ton gas/electric and electric/electric units
- 2 to 20 ton heat pump units • Up to 14.0 SEER, 12.5 EER and 15.0 IEER
- MSAV[®] supply fan achieves up to 61% fan power savings² (Standard on units 6 tons and up)
- Standard isolated compressor compartment and slide-out blower on 7.5 ton and up
- Meets a variety of applications with over 100 field accessories • Improved comfort with patented Humiditrol® dehumidification system
- Designed roof ready for easy installation and service

SPECIALTY PACKAGED **ROOFTOP UNITS**

RAIDER[®]





Raider[®] Rooftop Units

- 3 to 12.5 ton gas/electric and electric/electric units
- 3 to 10 ton heat pump units
- Up to 14.0 SEER, up to 11.7 EER and 15.0 IEER • Compatible with one of the most common footprints in the industry, eliminating cost of adapter curb in
- many replacement applications
- Matches existing electrical and plumbing connections on many existing applications
- Weighs up to 18% less than units in its class

– MINI-SPLIT SYSTEMS ————









AIR CONDITIONERS MC-SERIES OUTDOOR UNITS

- Single-Zone AC Units
- Cooling Only
- 0.75 to 2 tons
- Up to 21 SEER2 Sound levels as low as 53.5 dBA

INDOOR UNITS

- Wall-Mounted Non-Ducted
- 0.5 to 3 tons
- 115V and 208-230V options
- Three-speed fan • 3 refrigerant outlet access points • Three-speed fan
- Sound levels as low as 23 dBA
 Built-in condensate pump

Ceiling Cassette Non-Ducted 0.75 to 4 tons

- 208-230V
- 360° airflow panel
- Four-speed fan
- Built-in condensate pump Sound levels as low as 32 dBA

Vertical Air Handler Ducted

- 1.5 to 5 tons 208-230V
- Sound levels as low as 35.5



LRP14 3ph Rooftop Units

- 3.0, 3.5, 4.0 and 5.0 ton units Gas/electric, electric/electric and heat
- pump units
- 11.5 EER, 14 SEER, 8 HSPF (HP)
- 208/230V-3ph and 460V-3ph
- Designed with a compact footprint for when space is tight
- Immediate availability through select Lennox commercial distribution facilities

Medium-Static Ducted

- 0.75 to 4 tons
- 208-230V
- Slim, compact design
- Multiple return-air opening options
- Sound levels as low as 27 dBA

Ceiling/Floor Non-Ducted

- 1.5 to 4 tons
- 208-230V
- Three-speed fan
- Two installation orientations
- Multiple refrigerant line access points Sound levels as low as 39 dBA



CONTROLS -

UNITARY CONTROLS

Lennox[®] CORE Control System

- Mobile app interface integrates diagnostic, test, and troubleshooting functionalities reducing install times over traditional built-in interfaces
- Diagnostics and sensor system monitors component performance, tracks capacity and
- efficiency, and alerts when necessary Open integration through standard BACnet IP & MS/TP, and optional LONTalk module
- Support for wireless zone sensors through wireless gateway standard in Model L Units
- Patented SmartWire[™] system ensures proper field installation
- Built-in storage for diagnostic codes, data trending, and reports simplify service process
- Device encryption and firmware validation provide security and peace of mind

COMMERCIAL CONTROLS

ComfortSense 7500 Commercial Thermostat

- Easy-to-read backlit 4.3" color touchscreen
- ASHRAE[®] and IECC[®] Compliant
- Full 7-day programmability
- · Auto-changeover function automatically switches between heating and cooling modes • Compatible with Lennox rooftop units, split systems and Humiditrol dehumidification

LCS-5030 Wired/Wireless Sensor

- · Compatible with Model L rooftop units featuring the Lennox® CORE Unit Controller · Features temperature and relative humidity sensors as well as after-hours override
- Wired 24V power or AA battery operation* allows flexibility
- Easy to setup wireless mesh connection reduces install costs and increases reliability • Optional wireless repeater increases effective range for large building applications
- Automatic averaging of up to 5 sensors enables better comfort control
- *Battery life estimated at 2+ years in typical applications

Non-Programmable Local Controller

- Bright, backlit screen Available in °F as standard and °C
- by custom order
- Ideal for hotels and assisted-living applications Allows user control of indoor unit mode, setpoint and
- fan speed
- Supports up to 100 feet of wire between controller and indoor unit

Wireless Handheld Local Controller

- Bright, backlit screen • 12-hour format clock display
- · Allows user control of indoor unit mode, setpoint, fan speed and louver swing for non-ducted indoor units

BACnet and LonWorks Gateways

- Open protocol integration with front-end building management systems Supports indoor unit and outdoor unit monitoring
- and control points

- 4" Color IPS touch screen Operation Mode: Cool/Heat/Fan
- Schedule by time and days of the week
- Remote operation via mobile app
- Display: mode, setpoints, fan speed
- Lockable UI

Prodigy App

Watch how-to videos

• Access Prodigy related technical literature

• Visit Frequently Asked Questions

APPS

• Review alarm lookup tables with step by step troubleshooting guide

• Search a list of configuration parameters with detailed description

VRF App

- Watch how-to videos
- Review error code lookup tables with step by step troubleshooting guide
- checklist, pressure test procedure, and more
- Calculate refrigerant charge based on the liquid line length and liquid line diameter

Lennox Commercial Vision

To be recognized as the highest quality and most innovative Commercial HVAC solutions provider. Find us online:lennoxcommercial.com

LENNOX) / CORE

LENNOX) CORE

VRF CONTROLS

ComfortSense® 8500 Commercial Programmable Thermostat $\mbox{ }$ Compatible with Prodigy 2.0 and Lennox $\mbox{ }$ CORE

- Unit Controllers • ASHRAE[®] and IECC[®] Compliant
- Operation with BACnet networks through compatible
- unit controllers.
- Full 7-day programmability • Built-in humidity sensor and optional CO₂ sensors
- Simplified installation and service with only four wires

ComfortSense 3000 Commercial Thermostat

- Large buttons and display for ease of use
- Intuitive, advanced electronics for precise temperature control
- Stylish appearance to complement any interior setting • Designed specifically for commercial applications
- Weekdays and weekends are programmable with up
- to 4 time periods per day



Programmable Local Controlle

- 6.2" touchscreen with full-color display
- Complete schedule programming capabilities, including holidays
- Allows user control of indoor unit mode, setpoint, fan speed and louver swing for non-ducted indoor units
- Independent cooling and heating setpoints
- Auto-detect indoor unit model and capacity for ease
- of installation
- Set indoor unit static pressure • Built-in occupancy and humidity sensors for maximum comfort control



LVM Touchscreen Centralized Controller

- Available in full-color 12" or 15" touchscreen
- Centralized control and monitoring for up to 1,024 indoor units Supports up to 64 systems on one touchscreen
- Full time-of-day scheduling
- Indoor unit grouping options simplify control programming





- Using a built-in wireless gateway on the Lennox® CORE Unit Controller, The CORE Service App replaces a traditional built-in user interface. Simple guided setup, real-time data readouts and enhanced test functionalities make servicing Lennox rooftop units easier than ever before.
- Easily commission new Model L and Enlight systems
- Export data trends
- Share service reports
- Save / load unit profiles for similar units
- Edit unit parameters



LENNDX



Wi-Fi Controller

- relative humidity



Wireless Remote Controller

and louvers

Timer function

Backlit LED display

Programmable Controller

· Simple, user-friendly design

Large backlit LCD display

up to 8 actions per day

and fan speed

C'O.S.

= ~ ~ • • •

09:35~

Displays °F or °C

Controls fan speed, temperature

PRODIGY

Prodigy 2.0

operation

MINI-SPLIT CONTROLS

LENNOX Commercial Technology Solutions

-INDOOR AIR QUALITY-

Humiditrol Dehumidification System for Rooftop Units and Split Systems

- 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
- EDA Coil for Split Systems installs downstream of the evaporator and requires only the addition of iiComfort Wi-Fi(R) touchscreen thremostat or CS7500 thermostat 3 and Lennox variable-speed furnace or air handler

MERV Air Filters

- High-efficiency air filters available in MERV 8, 11, 13 and new MERV 16 • MERV 16 removes 95% 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

Bipolar Ionization

- Targets certain viruses, bacteria, mold, spores and fungi through cell oxidation as well as VOCs and odors through a chemical reaction at a molecular level.
- Easy to install
- No maintenance is needed
- Dry contacts tie into BAS controls to verify operation





- Rooftops



0

• Intuitive Unit Controller provides fast, accurate setup and simplified

• More than 250 adjustable parameters for customizable operation

• Available interoperability via certified BACnet® or LonTalk® protocols

• Over 100 diagnostic codes simplify troubleshooting



Wired Controller

- Controls fan speed, temperature and louvers
- Large backlit display
- Simple, user-friendly design
- Displays °F or °C

• Compatible with all mini-split indoor units • Programmable daily schedule with • Schedule start time, mode, setpoint

> Access VRF & Mini-Splits related technical literature (such as installation manuals, operation manuals, submittals)

• Quickly reference items such as piping limitations, pre-commissioning



ULTIMATE INDOOR AIR QUALITY SYSTEM

Lennox has created an RTU that can successfully allow commercial businesses and schools to operate with quality indoor air. When using a combination of MERV 16 filters and UVC Germicidal lamp, the Ultimate IAQ system has been 3rd party tested to show a 95% single pass efficiency rate^[3] with a 70% virus reduction rate^[4] after five minutes and 99% reduction after 30 minutes.



Filtration RTU mounted MERV 16 Filters provide industry leading filtration, removing up to 95% of particles down to .3 microns.

Purification Factory installed UVC Lights treat the interior surfaces of the RTU and target certain viruses, bacteria, and mold spores.

Dehumidification HumiditrolTM + provides energy efficient dehumidification for superior indoor air quality and year-round comfort.

¹ When used properly with other best practices recommended by CDC and others; commercial filtration and UVC lights can be part of a plan to reduce the potential for airborne transmission of COVID-19 indoors. ² Removal efficiency based on third party testing results using MS-2 bacteriophage (ATCC 15597-B1). Bacteria representative of virus-sized particles like SARS-CoV-2, the virus that causes COVID-19. April 2021. ³ Recirculating testing conducted at 3rd party facility in 1007 Cu.ft. chamber with airflow moving 6 Air Changes per Hour (100 CFM). ⁴ Single Pass testing conducted at 3rd party facility with 750 CFM moving through an air tunnel

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

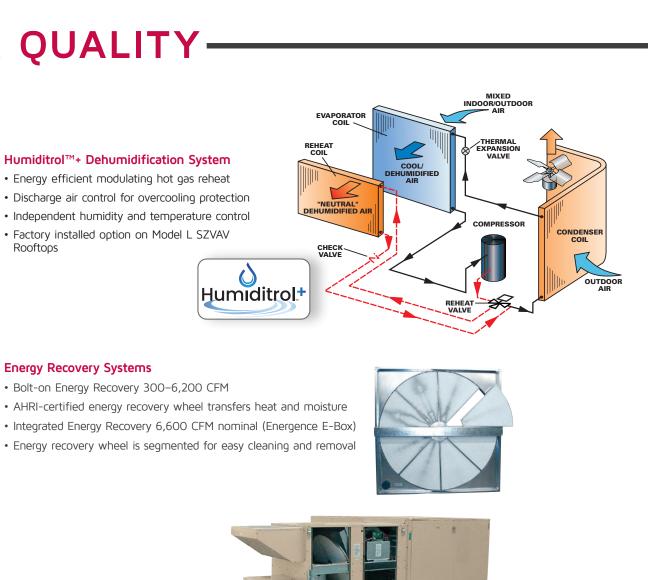
All air conditioners and heat pumps are Commercial 3-phase voltage; for information on Residential 1-phase voltage, please contact Lennox Industries.

Proper sizing and installation of equipment is critical to achieve optimal performance. Split system air conditioners and heat pumps must be matched with appropriate coil components to meet ENERGY STAR® criteria. Ask your contractor for details, or visit www.energystar.gov.

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At 55% airflow when compared to full load. ² At 67% airflow when compared to full load.

Environ Coil available on Energence high-efficiency, Landmark high-efficiency and Raider gas/electric models only. ⁸ Available on Energence high-efficiency models only.



³ Select units will also require the equipment interface module.

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.