LENNOX VRF

LENNOX® VRF SYSTEMS.
CONNECTING TECHNOLOGY WITH EXPERTISE.

LENNOX®
LENNOX® MINI-VRF MAKES MULTI-ZONE COMFORT EASY AND EFFICIENT.

Available in 3- to 5-ton configurations, with options to control up to 9 zones, Lennox® Mini-VRF enhances comfort without adding complication. All systems offer energy advantages for a wide range of single-phase applications. Our true 5-ton system is lighter and more compact than any other system in its class*, so you can offer customers cost-saving heating and cooling performance that doesn’t compromise on space.

SMALL BUSINESSES

Every office and common area can enjoy its own individual temperature control, and businesses as a whole can realize operational cost savings.

PREMIUM RESIDENCES

Offering multi-zone temperature control that’s efficient and quiet, Lennox Mini-VRF is a commercial product that’s also ideally suited to large custom homes.

ASSISTED-LIVING FACILITIES

Lennox Mini-VRF systems are compatible, interchangeable and adaptable to meet the needs of assisted-living and wellness facilities.

SERVICE ESTABLISHMENTS

For stores and other point-of-service businesses, Lennox Mini-VRF can eliminate temperature swings, even as heating and cooling demands change throughout the day.

*Compared to “true” 5-ton VRF commercial heat pumps
**LENNOX MEANS EFFICIENT, FEATURE-RICH EQUIPMENT.**

**LENNOX MINI-VRF IS NO EXCEPTION.**

Mini-VRF outdoor units are designed for efficient performance in even the harshest climates. Indoor units offer multiple installation options, and are engineered to offer higher energy savings. Every component meets or exceeds our exacting standards.

**HIGH EFFICIENCY**
Inverter technology allows the compressor to adjust its speed based on heating and cooling demand to maximize energy efficiency. Energy consumption can be measured with a third-party pulse meter.

- SEER of up to 19.2
- HSPF of up to 11.4

**COMPACT, LIGHT AND QUIET**
A low-profile height of only 52-1/4” and width of 35-3/8” make the systems suitable for most architectural design requirements. Indoor units have a specially engineered fan blade design that optimizes airflow and keeps sound levels as low as 23 dBA. Outdoor sound levels can be as low as 41 dBA.

**CUSTOMIZABLE COMFORT**
Lennox Mini-VRF can be easily integrated with the largest programmable touchscreen controller in the industry. The 7” screen with full-color display makes it easy to set temperatures for up to 9 different zones, create customized heating and cooling schedules and troubleshoot.

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**MINI-VRF SYSTEMS PERFORMANCE SPECIFICATIONS**

<table>
<thead>
<tr>
<th>NOM. TON</th>
<th>MODEL</th>
<th>CAPACITY (BTU/H)</th>
<th>COOLING DATA</th>
<th>HEATING DATA</th>
<th>PHYSICAL DATA</th>
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<tr>
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<td>SEER</td>
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<td>CAPACITY (BTU/H)</td>
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</table>
INDOOR UNITS

Lennox® Mini-VRF systems include a wide selection of indoor units, each offering a different form factor to accommodate different building designs and construction needs. Every indoor unit contains smart features to increase efficiency and functionality:

**AUTO RESTART**
Restores operation after power failure.

**AUTO ADDRESSING**
Mini-VRF systems have the optional ability to automatically assign indoor unit addresses upon startup.

**DRY MODE**
Indoor units operate with greater humidity control and comfort.

**WASHABLE FILTER**
Helps preserve indoor air quality while reducing waste.

**BUILT-IN DRY CONTACT RELAYS**
For controlling 3rd party devices, such as auxiliary heat.

**PRE-HEAT FUNCTION**
Prevents air from circulating during heating mode until the indoor coil has sufficiently warmed.

**REMOTE ON/OFF**
Provides convenience and energy savings.

**ERROR STATUS**
Alerts the user if a fault is detected or maintenance is needed.
VWMB  
WALL MOUNT  
FLEXIBLE INSTALLATION  
Refrigerant piping can be routed to the left, right or rear  
AUTO-SWING LOUVER  
Automatically redirects air based on mode selected  
QUIET OPERATION  
Noise levels as low as 29 dB  

V22B  
COMPACT 360° CASSETTE  
360° AIR OUTLET  
Provides uniform temperature distribution  
COMPACT CASING  
Fits directly into a lay-in ceiling grid, while reducing installation space requirements above the ceiling  
INTEGRAL CONDENSATE PUMP  
Removes moisture quickly and conveniently  
ECM MOTOR  
For maximum energy efficiency  

V33B 360° CASSETTE  
360° AIR OUTLET  
Provides uniform temperature distribution  
OUTSIDE AIR CONNECTION  
Allows ventilation air to be induced directly into the unit  
INTEGRAL CONDENSATE PUMP  
Removes moisture quickly and conveniently  
ECM MOTOR  
For maximum energy efficiency  

VOWA ONE WAY CASSETTE  
INTEGRAL CONDENSATE PUMP  
Removes moisture quickly and conveniently  
ECM MOTOR  
For maximum energy efficiency  
QUIET OPERATION  
Noise levels as low as 29 dB  

VCFB  
CEILING AND FLOOR MOUNT  
FLEXIBLE INSTALLATION  
Installs either vertically or horizontally  
VERTICAL AND HORIZONTAL AUTO SWING  
Ensures better airflow distribution  
COMPACT INSTALLATION  
Less than 8.5” (216mm) in height  

VHIB  
HIGH-STATIC DUCTED  
HIGH STATIC PRESSURE  
Support external static pressure up to 1”  
LOW PROFILE HEIGHT  
For space-saving applications  
OPTIONAL CONDENSATE PUMP  
Removes moisture quickly and conveniently  

VMDB  
MEDIUM-STATIC DUCTED  
COMPACT INSTALLATION  
A height of only 8.25” (210mm) makes this unit ideal when space above the ceiling is limited  
INTEGRAL CONDENSATE PUMP  
Removes moisture quickly and conveniently  
ECM MOTOR  
For maximum energy efficiency  

VVCB  
VERTICAL AIR HANDLING UNIT  
ECM MOTOR  
For maximum energy efficiency  
MULTI-POSITION  
Install vertically or in horizontal-right or horizontal-left orientations for maximum flexibility  
OPTIONAL ELECTRIC HEAT  
Up to 20kW  

VOSB OUTSIDE AIR DUCT  
DISCHARGE TEMPERATURE CONTROL  
For maximum comfort control  
BUILT IN DRY CONTACT RELAYS  
 Supports 3rd party devices such as pre-heat, dampers, and CO2 sensors  
HIGH STATIC PRESSURE  
Support external static pressure up to 1”
**CONTROLS**

Lennox® Mini-VRF equipment is flexible in its comfort control, and its applications. With multiple control options and accessories available, it can be customized to create an ideal environment in every room, in any season.

**LVM CENTRALIZED CONTROL:**
A single touchscreen control to monitor and adjust every unit in a Lennox VRF system. Access through mobile and desktop devices to put total control of the entire system at your fingertips, including full time-of-day scheduling, error code and status history, and more.

**THE LVM FEATURES:**
- Centralized monitoring and control for up to 2,560 indoor units and 64 systems
- Available in 15-inch touchscreen
- Standard with web access

<table>
<thead>
<tr>
<th>Programmable Wired Controller</th>
<th>Simple Wired Controller</th>
<th>Wireless Remote Controller</th>
</tr>
</thead>
<tbody>
<tr>
<td>V0STAT51P</td>
<td>V0STAT54P</td>
<td>V0STAT52P</td>
</tr>
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</table>

- Built-in occupancy sensor with options for setback
- Built-in humidity sensor with humidity control options for maximum comfort control
- Auto-detects indoor unit model and capacity
- Daily, 5+2, 5+1+1, 7-day, and customer holiday programming options

- Easy-to-read backlit display for setpoint and room temperature
- Control up to 16 indoor units from a single controller
- View sensor readings, EXV position, and system codes

- Control setpoint, fan speed, mode, and louver swing
- Configurable for fahrenheit or celsius
- Easy-to-read backlit LCD display

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*BACnet is a registered trademark of ASHRAE. LonWorks is a registered trademark of Echelon Corporation.*
S Y S T E M A C C E S S O R I E S

Lennox Mini-VRF outdoor and indoor units are available with a variety of optional accessories that offer added application flexibility, along with greater efficiency and functionality.

TOOLS AND RESOURCES

When you select Lennox Mini-VRF, you’re choosing technology backed by expertise. Lennox HVAC professionals understand the challenges faced by engineers and contractors in designing and specifying a heating and cooling system, which is why we offer resources to help with every job.

LENNOX VRF & MINI-SPLITS MOBILE APPLICATION

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

• Help videos
• Document library
• Refrigerant charge calculator
• Error code lookup
• Quick reference guide
• Pipe specifications and limitations

LENNOX VRF SELECTION SOFTWARE

Simple drag-and-drop functionality makes it possible to view different outdoor and indoor equipment in CAD-based building plans prior to ordering and installation:

• Built-in limitations to ensure selections are consistent with piping rules, connection ratios and other application considerations
• Ability to export selections to Microsoft Word or Excel formats
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
- Energence® Rooftop Units
- Landmark® Rooftop Units
- Raider® Rooftop Units
- Accessories

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

VRF
- Outdoor Units
- Indoor Units
- Controls
- Accessories

HEATING
- Unit Heaters
- Duct Furnaces
- Furnaces

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

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

COMMERCIAL CONTROLS
- Systems Integration Solutions
- Commercial Thermostats

HEATING
- Unit Heaters
- Duct Furnaces
- Furnaces

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