

# STRATEGOS<sup>®</sup>

COMMAND EFFICIENCY

Commercial Packaged Rooftop Units  
3- to 24-Ton Models

Up to 16.1 SEER,  
Up to 14.3 EER and  
Up to 16.8 IEER



**LENNOX**

*Innovation never felt so good.<sup>®</sup>*



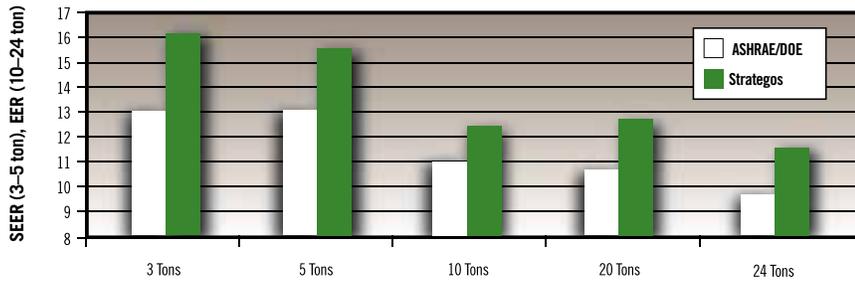
# GET HIGHER EFFICIENCY AND LOWER OPERATING COSTS IN ONE DYNAMIC UNIT

The Strategos® rooftop unit product line offers the high efficiencies and dependable performance demanded by light commercial operations. Designed to cut energy usage, cost less to operate and reduce environmental impact, the Strategos rooftop unit is an excellent energy-management investment and is key to creating a successful strategy for sustainable design.

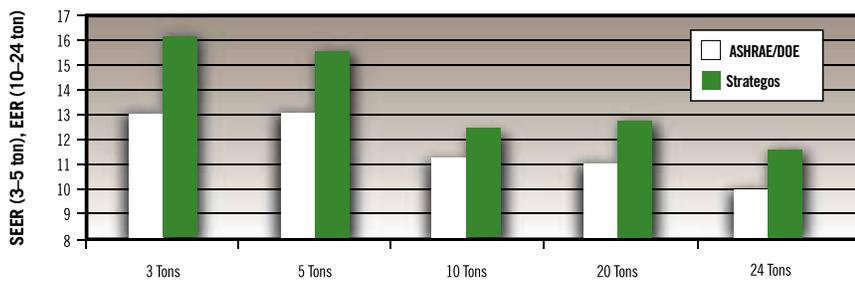
## Upgrade to a higher level of efficiency

The Strategos rooftop units have efficiency ratings that are dramatically higher than the most stringent requirements of the U.S. Department of Energy and ASHRAE.

### G/E Efficiency Performance



### E/E Efficiency Performance



Strategos 20-ton equipment has been rated at 236,000 Btuh net cooling capacity and adheres to the efficiency requirements for equipment falling between 135,000 and less than 240,000 Btuh.

## Energy efficiency that pays a return year after year

Engineered to improve the energy efficiency of a wide range of light commercial buildings, the innovative design of the Strategos rooftop unit product line dramatically reduces HVAC total cost of ownership by controlling energy spending. Efficiency ratings up to 16.1 SEER, 14.3 EER and 16.8 IEER provide both immediate and long-term energy savings. This unit has been designed to reduce energy usage during both full- and part-load operation.

### Strategos® rooftop units at a glance:

Designed for low total cost of ownership

Provides excellent comfort and indoor air quality (IAQ)

Prodigy® unit controller intelligently verifies service, operation and required setup and configuration

Unique SmartWire™ system helps ensure the most accurate setup and the least service time

Keeps installation costs low with a wide range of factory-installed standard features

Saves time and labor with simple service and maintenance

Helps meet sustainable, green building design objectives

### Efficiency Rating

Up to 16.1 SEER, up to 14.3 EER and up to 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 Prodigy unit controller

**1-Year Limited Warranty** on remaining covered components

See warranty certificate for actual details.



Strategos units have been recognized by the EPA as ENERGY STAR® certified. The ENERGY STAR program helps businesses save energy with products offering superior efficiency. Lennox not only manufactures products that are ENERGY STAR certified, but also has been selected as ENERGY STAR Partner of the Year for an unprecedented four years based on a commitment to energy-efficient solutions that save money and help the environment.

# HIGH EFFICIENCY RATINGS SAVE ENERGY IN ALL SEASONS

## Savings during hot summer months

During the hottest part of the year, a rooftop unit will often run at full load or 100% cooling capacity to keep occupants cool and comfortable. During this period of the highest possible level of energy usage, the Strategos units' rating of up to 14.3 EER will help reduce peak electric demand to limit energy expenses.

## Savings all year long

During the milder parts of the year, such as fall or spring, the HVAC system typically provides less than 100% cooling capacity. The Strategos units feature efficiency levels up to 16.1 SEER and 16.8 IEER, helping reduce overall energy costs during these off-peak months.

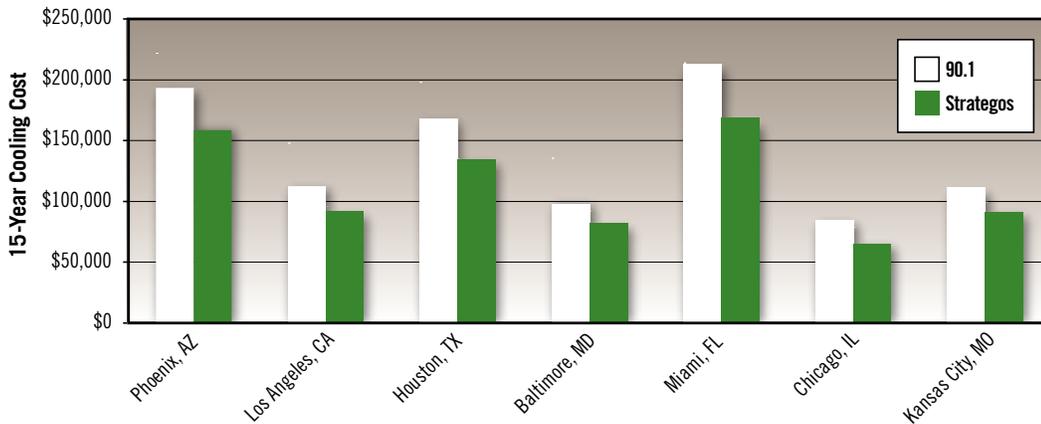
## SUSTAINABLE DESIGN

It's becoming a bigger and bigger issue for customers, especially those considering super-efficient equipment. The Strategos rooftop unit product line helps customers meet today's advanced comfort needs without ignoring tomorrow. It even helps customers attain LEED® credits.

The Strategos rooftop unit product line responds to environmental issues by making buildings models of efficiency, as well as promoting healthy, productive and comfortable environments.

**On average, HVAC systems last for 15 years.\* Installing the Strategos rooftop unit can help reduce operational costs by thousands of dollars each year over the next 15 years.**

## Cooling Cost Comparison



High-Efficiency Unit: Strategos SGA240H4M (20-ton G/E), 12.6 EER, 16.6 IEER

Standard-Efficiency Unit: 20-ton G/E, 10.8 EER, 11.0 IEER (current ASHRAE 90.1 minimum for equipment between 135,000 and less than 240,000 Btu/h)

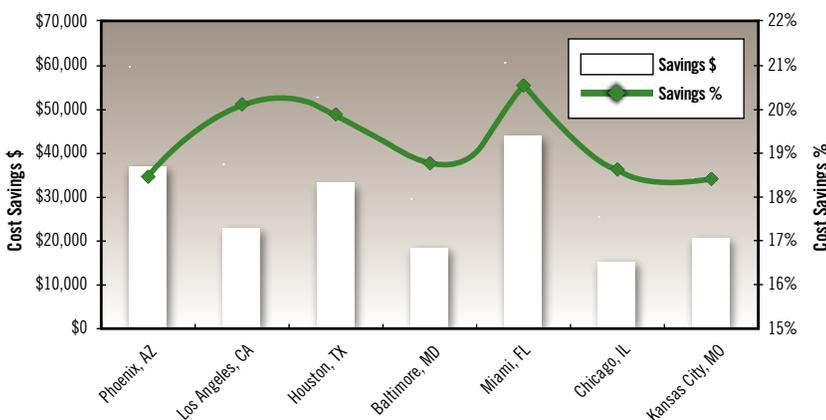
Operating Cost: Cooling cost only (no gas heat)

Electric Rate: \$0.11 (\$/kWh) with 3% annual escalation rate

Building Type: Retail Facility

The Strategos units provide savings in a range of climates, for savings beyond a simple break-even financial analysis. Actual savings may vary depending on system settings, equipment maintenance, local weather, actual construction, installation of equipment, duct system, hours of operation, local fuel rates and other factors calculated using Lennox' Total Cost of Ownership™ calculator, version 1.0.26.

## 15-Year Cost Savings



\*Chain Store Age magazine, Leo J. Shapiro & Associates, 2004

# KEEP CUSTOMERS AND EMPLOYEES COMFORTABLE, PROTECT PRODUCTIVITY

## Strategos® rooftop units provide reliable comfort and indoor air quality

Hot and cold spots, excessive humidity or stale air can drive away customers and affect the productivity of employees. Lennox can help improve comfort, keep occupants happy and keep customers coming back.

### Choose the Strategos rooftop unit for:

- Reliable engineering for long-lasting comfort control, day after day, year after year
- Intelligent operation through the Prodigy® control system, standard on every unit, that helps ensure reliability, maximum efficiency and comfort
- Lennox' unique "Strike-Three" technology, which can shut down the unit based on critical alarms and protects against catastrophic failure to prevent unnecessary downtime
- Just the right amount of conditioning, with up to four stages of heating and cooling to eliminate temperature swings
- Improved fresh-air ventilation with units factory-ready for demand control ventilation

### Rely on verified performance and installation

It's important—and not easy—to ensure your HVAC equipment has been properly installed and is operating at peak performance. An Equipment Operation Check, a service provided by Lennox, will provide assurance of what you're getting. The unit will be inspected for proper installation and operation, as well as high-performance energy usage. The result will help you provide a comfortable building from the start and limit potential delays.



## IMPROVING YOUR CUSTOMERS' EXPERIENCE

Improving the customer experience—whether it's in a retail store or restaurant—begins with controlling their comfort in your building. Lennox designed the Strategos rooftop unit product line to provide environments that encourage customers to stay and employees to work productively.

## INSTALLATION, SERVICE AND MAINTENANCE ARE IMPORTANT COMPONENTS IN THE TOTAL COST OF OWNERSHIP

The Strategos rooftop unit product line helps customers save in each of these areas:

### Installation

- Units come fully configured and tested from the factory, so installation is fast and easy.
- No worries about installing lots of accessories in the field, because so many come standard.
- SmartWire™ system has advanced connectors that are keyed and color-coded to help simplify field sensor and thermostat installation, prevent miswiring and ensure proper component installation

### Service and maintenance

- Components are placed on the perimeter of the unit within easy reach.
- Hinged access doors and toolless handles expedite service and/or maintenance.
- Prodigy unit controller tracks the runtime of every major component and records the date and time when service or maintenance is performed

## Innovative features are already built in.

### Standard installed features:

- Circuit breakers
- Ground fault circuit interrupter (GFCI)
- Grille guard
- Thermal expansion valve (TXV)
- Compressor crankcase heater
- Freezestats
- High-pressure switch
- Low-pressure switch
- Filter driers
- MERV 7 filter

### Prodigy® unit controller standard features:

- Over 200 customer-configuration parameters
- Over 100 diagnostic error codes
- Compressor time-off delay
- Compressors 1–4 runtime and cycle count
- Relative humidity input
- Thermostat bounce delay
- Return air temperature limit control
- Night setback mode
- Supply duct static pressure setpoint
- Smoke alarm mode
- CO<sub>2</sub> demand control ventilation ready
- “Strike-Three” critical alarm
  - Automatic reset
  - Low pressure
  - High pressure
  - Freezestat
  - Heat limit

### Factory-installed options:

- 230/3/60, 460/3/60, 575/3/60 Volt
- Evaporator coil corrosion protection
- Condenser coil corrosion protection
- Stainless steel heat exchanger
- LPG/propane fuel supply
- Constant air volume supply fan
- Copper drain trap (20- and 24-ton only)
- Hail guard (20- and 24-ton only)
- MSAV® (multi-stage air volume) supply fan
- Manual outdoor air damper with hood
- Economizer with barometric relief, hood and global control
- Power exhaust fans with damper position control (10- and 20-ton only)
- Novar 2051 DDC
- CPC 810-3062 DDC
- Novar integration (requires Novar system gateway device)
- CPC integration (requires CPC system gateway device)
- Interoperability via BACnet or LonTalk® protocols
- Return smoke detector
- Supply smoke detector
- Dual/single enthalpy

### Field-installed accessories:

- 14-inch bolt-together curb
- 24-inch bolt-together curb
- Novar 2051 DDC
- CPC 810-3062 DDC
- CO<sub>2</sub> sensor
- Thermostat
- Fresh-air tempering
- Coil guard
- Hail guard

## THE STRATEGOS® ROOFTOP UNIT PRODUCT LINE PERFORMANCE SPECIFICATIONS

	Nominal Tonnage	Model	Supply Fan Type	COOLING DATA					HEATING INPUT			AIR SUPPLY RANGE				PHYSICAL DATA		
				Gross Cap. [Btuh]	ARI Rated Net Cap. [Btuh]	ARI Rated CFM	Full Load [EER]	Part Load [SEER or IIEER]	Standard [Btuh]	Medium [Btuh]	High [Btuh]	CFM Min. Cool	CFM Min. Heat	CFM Max.	Static [in wc]	Dimensions H x W x L [inches]	Shipping Wt. [lbs.]	
GAS/ELECTRIC UNITS	3	SGC036H4B	CAV	37,200	36,000	1,200	14.3	16.1	75	125	NA	900	926	2,500	1.1	42 x 83 x 73	1,018-1,063	
	5	SGC060H4B	CAV	61,500	59,500	1,650	12.8	15.5	75	125	NA	1,500	800-1,235	2,500	1.1	42 x 83 x 73	1,042-1,087	
	10	SGC120H4B	CAV	123,000	119,000	3,700	12.3	12.5	130	180	240	3,000	1,391-2,540	4,800	1.0	52 x 91 x 87	1,785-1,860	
	10	SGC120H4M	MSAV	123,000	119,000	3,700	12.1	14.7	130	180	240	2,000-3,000	1,391-2,540	4,800	1.0	52 x 91 x 87	1,785-1,860	
	20	SGC240H4B	CAV	242,000	236,000	6,500	12.6	14.2	260	360	480	6,000	2,782-5,079	9,600	1.2	66 x 91 x 146	3,000-3,275	
	20	SGC240H4M	MSAV	242,000	236,000	6,500	12.6	16.6	260	360	480	4,000-6,000	2,782-5,079	9,600	1.2	66 x 91 x 146	3,000-3,275	
	24	SGC288H4B	CAV	296,000	288,000	7,700	11.6	12.7	260	360	480	7,200	7,111	11,520	1.2	66 x 91 x 145	3,068-3,320	
									KW Range									
ELEC./ELEC. UNITS	3	SCC036H4B	CAV	37,200	36,000	1,200	14.3	16.1	15	NA	NA	900	900	2,500	1.1	42 x 83 x 73	963-1,024	
	5	SCC060H4B	CAV	61,500	59,500	1,650	12.8	15.5	15	30	NA	1,500	1,600	2,500	1.1	42 x 83 x 73	967-1,031	
	10	SCC120H4B	CAV	123,000	119,000	3,700	12.5	12.8	15	30	45	60	3,000	3,800	4,800	1.0	52 x 91 x 87	1,678-1,750
	10	SCC120H4M	MSAV	123,000	119,000	3,700	12.3	15.2	15	30	45	60	2,000-3,000	3,800	4,800	1.0	52 x 91 x 87	1,678-1,750
	20	SCC240H4B	CAV	242,000	236,000	6,500	12.8	14.3	30	60	90	6,000	8,000	9,600	1.2	66 x 91 x 146	2,786-2,991	
	20	SCC240H4M	MSAV	242,000	236,000	6,500	12.8	16.8	30	60	90	4,000-6,000	8,000	9,600	1.2	66 x 91 x 146	2,786-2,991	
	24	SCC288H4B	CAV	296,000	288,000	7,700	11.6	12.8	30	60	90	7,200	8,000	11,520	1.2	66 x 91 x 146	2,856-2,956	
24	SCC288H4M	MSAV	296,000	288,000	7,700	11.6	14.2	30	60	90	4,800-7,200	8,000	11,520	1.2	66 x 91 x 146	2,856-2,956		

Certified in accordance with USE certification program which is based on ARI standard 210/240 (5 tons and below):

95°F outdoor air temperature and 80°F DB/67°F WB entering evaporator coil air.

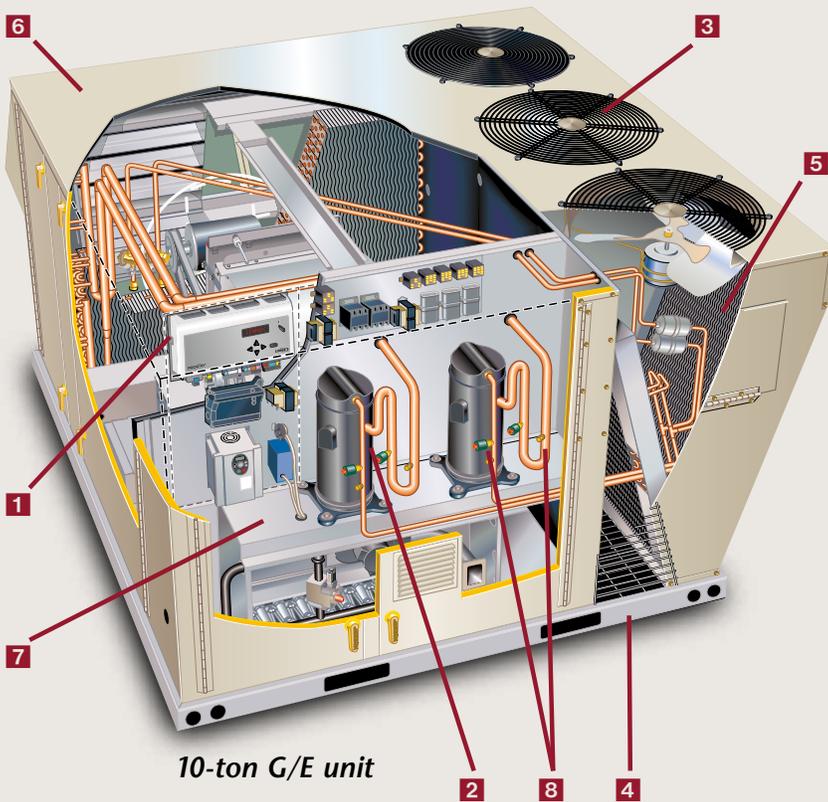
Certified (CAV units) or rated (MSAV units) in accordance with USE certification program which is based on ARI standard 340/360 (6 tons and above):

95°F outdoor air temperature and 80°F DB/67°F WB entering evaporator coil air.

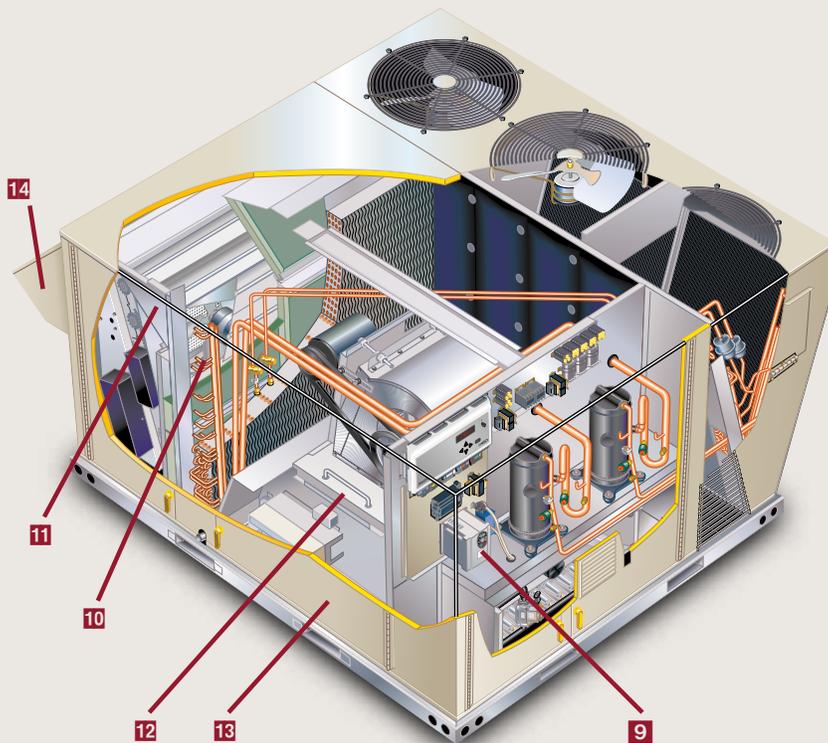
All dimensions have been rounded up to the nearest inch.

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

# CHOOSE THE STRATEGOS® UNIT TO IMPROVE EFFICIENCY, REDUCE



10-ton G/E unit



10-ton G/E unit

- 1 Prodigy® Control System**—Standard on every Strategos® rooftop unit.
  - 2 Multiple Compressors**—Allow the unit to provide efficient cooling with up to four stages of cooling capability.
  - 3 Independent Motor Mount**—Allows for easy, efficient access without removing top panel.
  - 4 Full-Perimeter Base Rail**—Provides greater structural integrity, so the unit is easier to handle when rigging and transporting.
  - 5 Environ™ Coil**—Permits faster, more thorough cleaning of condenser coil.
  - 6 Corrosion-Resistant Cabinet**—Galvanized steel cabinet under a two-layer painted surface protects against rust and corrosion.
  - 7 Isolated Compressor Compartment**—Allows performance check during normal compressor operation without disrupting airflow.
  - 8 High- and Low-Pressure Switches**—Safeguard compressor from extreme operating conditions and unnecessary wear and tear.
  - 9 Variable Frequency Drive**—Provides MSAV® supply fan operation for increased energy savings (optional 10- and 20-ton units).
  - 10 Thermostatic Expansion Valve**—Provides peak cooling performance across the entire application range for better comfort.
  - 11 Economizer**—Improves indoor air quality and allows energy-saving operation (optional).
  - 12 Slide-Out Blower Deck**—Improves access to belt, blower and motor, reducing maintenance time.
  - 13 Hinged Toolless Access Panels**—Provide quick access to components and protect panels and roof from damage during servicing.
  - 14 Swing-Out Economizer Air Hood**—Makes installing the economizer air hood quick and easy.
- Ground Fault Circuit Interrupter (GFCI)**—Convenience outlet for 115V tools (not shown).
- Circuit Breaker**—Quick and easy unit power shutoff plus unit maximum overcurrent protection (not shown).
- Filter Driers**—Protect the system from dirt and moisture (not shown).

# SERVICE COSTS AND PREVENT UNNECESSARY DOWNTIME

## PRODIGY® CONTROL SYSTEM

Standard on every Strategos rooftop unit, the Prodigy control system makes setup, troubleshooting and servicing easier than ever. The Prodigy control system includes the Prodigy unit controller, SmartWire™ system and optional Prodigy BACnet and Prodigy LonTalk® modules.

### Prodigy Unit Controller:

The Prodigy unit controller 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
- User-friendly and intuitive interface eases setup and diagnostics
- Generates downloadable service reports
- Self-test mode can test the operation of individual components or operating modes
- Scrolling display improves communication with clearly displayed text instead of codes



### SmartWire™ System

The SmartWire system is designed to simplify field sensor and thermostat installation. Through advanced connectors that are keyed and color-coded, the SmartWire system helps prevent miswiring and ensure the unit and components are installed properly. The wire-coloring scheme is standardized across all models, and each connection is intuitively labeled to make troubleshooting and servicing quick and easy.

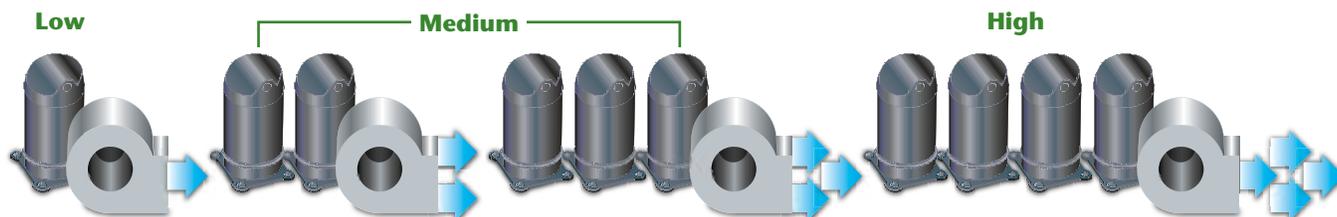


### Optional Prodigy BACnet and Prodigy LonTalk® Modules

BACnet and LON integration are simple with the Prodigy control system. A BTL-listed Prodigy BACnet Module is available to connect to a BACnet building automation system. A LONMARK®-certified Prodigy LonTalk Module is available for connecting to a LON building automation system. These certified modules ensure smooth and easy integration and effective communication into each building automation system.



## CONTROL ENERGY USAGE WITH MSAV® (MULTI-STAGE AIR VOLUME) SUPPLY FAN



Save energy and provide just the right amount of cooling with Lennox' MSAV supply fan. This revolutionary new technology can provide up to seven levels of airflow, helping the unit control energy usage while still meeting comfort requirements. For example, when there

is a low demand for cooling and only one compressor is running, the rooftop unit will reduce airflow to save energy. As the cooling demand increases, and the unit adds additional compressors, airflow is increased to provide more cooling capacity. The rooftop unit can provide different

airflow levels for cooling (up to four), heating (one), ventilation (one) and smoke detector mode (one). It is preset at the factory for quick and easy start-up. However, a user has the flexibility to customize airflow settings by making changes in the Prodigy unit controller.

# 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
- Strategos® Rooftop Units
- Landmark® Rooftop Units
- Raider® Rooftop Units



## Commercial Controls

- Systems Integration Solutions
- Commercial Thermostats
- L Connection® Network



## VRF

- Outdoor Units
- Indoor Units
- Controls



## Mini-Split Systems

- Wall-Mounted Non-Ducted
- Ceiling Cassette Non-Ducted
- Medium-Static Ducted
- Ceiling/Floor Non-Ducted



## Solar Ready

- SunSource® Commercial Energy System



## Heating

- Unit Heaters
- Duct Furnaces
- Furnaces



## Split Systems

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



## Indoor Air Quality

- Humiditrol® Dehumidification System
- Demand Control Ventilation
- Air Filters
- UVC Lamps



# LENNOX

*Innovation never felt so good.®*

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