

Strategos™ Packaged Rooftop Units ♦ Up to 16.1 SEER, up to 14.3 EER and up to 16.4 IPLV



STRATEGOS™
COMMAND EFFICIENCY

Commercial Packaged
Rooftop Units

3- to 24-Ton Models

The most energy-efficient
rooftop unit in the industry*



LENNOX
Innovation never felt so good.™

START AN EFFICIENCY REVOLUTION WITH THE INDUSTRY'S HIGHEST-EFFICIENCY ROOFTOP UNIT*

Stratos™ rooftop unit product line at a glance:

The industry's most energy-efficient rooftop unit*

Designed for low total cost of ownership

Provides excellent comfort and indoor air quality (IAQ)

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



Stratos units have been recognized by the EPA as ENERGY STAR® qualified. The ENERGY STAR program helps businesses save energy

with products offering superior efficiency. Lennox not only manufactures products that are ENERGY STAR qualified, 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.

Efficiency Rating

Up to 16.1 SEER, up to 14.3 EER and up to 16.4 IPLV

Warranty

15-Year Limited Warranty on stainless steel 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 remaining covered components

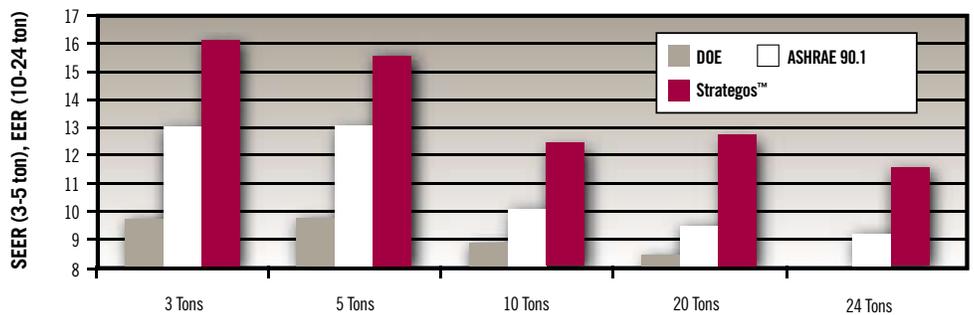
See actual warranty certificate for details.

The most energy-efficient unit of its kind,* the Stratos™ rooftop unit product line is Lennox' most innovative light commercial equipment. Designed to cut energy usage, cost less to operate and reduce environmental impact, the Stratos rooftop unit is an excellent energy-management investment and key to creating a successful strategy for sustainable design.

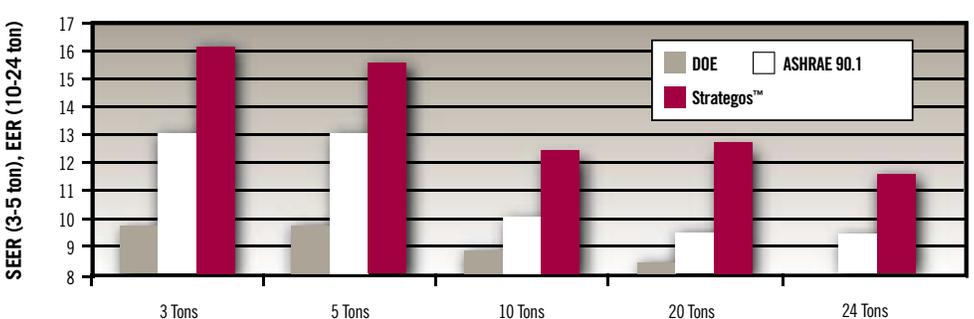
Upgrade to industry-leading efficiency

The Stratos rooftop units have efficiency ratings that are dramatically higher than the most stringent requirements of the U.S. Department of Energy and ASHRAE. In fact, the Stratos product line features efficiencies that are up to 66% more efficient.

G/E Efficiency Performance



E/E Efficiency Performance



Stratos 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

Designed to improve the energy efficiency of a wide range of light commercial buildings, the innovative design of the Stratos 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 16.4 IPLV provide both immediate and long-term energy savings. This unit has been designed to reduce energy usage during both full- and part-load operation.

*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, September 2008.

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 16.4 IPLV, helping reduce overall energy costs during these off-peak months.

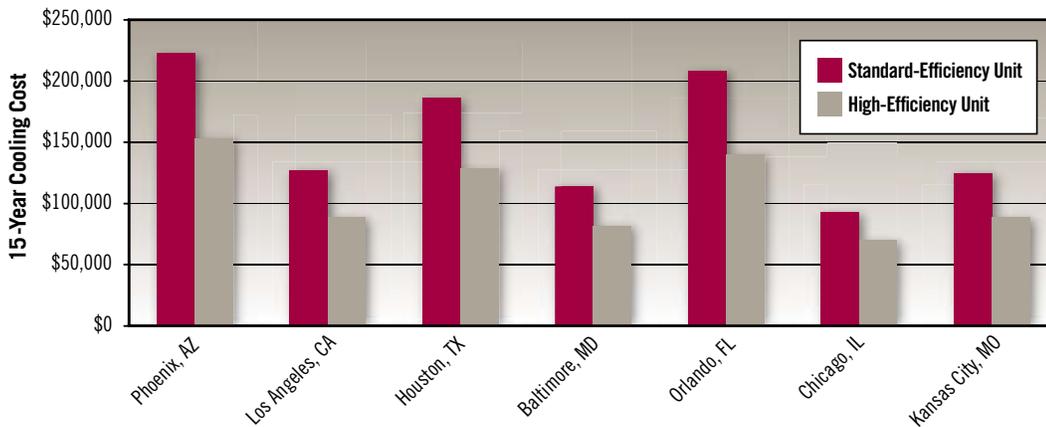
SUSTAINABLE DESIGN

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, 16.2 IPLV

Standard-Efficiency Unit: 20-ton G/E, 9.5 EER, 10.0 IPLV (current ASHRAE 90.1 minimum for equipment between 135,000 and less than 240,000 Btu/h)

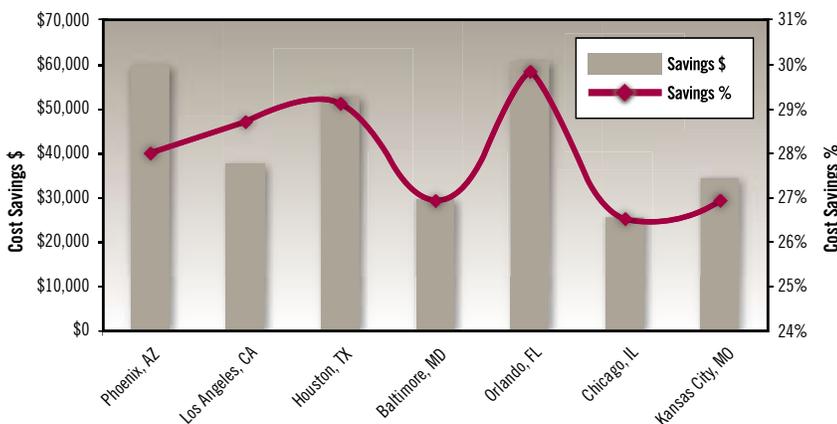
Operating Cost: Cooling cost only (no gas heat)

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.

15-Year Cost Savings



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

KEEP CUSTOMERS AND EMPLOYEES COMFORTABLE, PROTECT PRODUCTIVITY

The 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
- Lennox' unique "Strike-Three" technology, which can shut down the unit based on critical alarms, 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.
- Integrated Modular Controller (IMC) helps make setup and field start-up tests quick and efficient.

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.
- IMC features over 100 diagnostic codes, so it doesn't take a lot of time to check unit operation.

Our most innovative features are already built in.

They may be options or accessories for other units, but these are **standard installed features** on the Strategos rooftop unit:

- 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
- R-410A refrigerant
- MERV 7 filter

Want to improve service and maintenance with 100+ diagnostic codes?

Or improve reliability by monitoring and controlling unit operation

based on critical alarms? The following **control features are standard**:

- Integrated Modular Controller
- Over 200 customer configuration parameters
- Over 100 diagnostic error codes
- Compressor time-off delay
- Minimum compressor run time
- Thermostat bounce delay
- Return air temperature limit control
- Night setback mode
- Smoke alarm mode
- CO₂ demand control ventilation ready
- “Strike-Three” critical alarm –Automatic reset
- Low pressure
- High pressure
- Freezestat
- Heat limit

Want or need more? **Factory-installed options** customize units for certain climates and/or specifications. These options include:

- 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)
- Hail guard (20- and 24-ton)
- 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

Easily added during installation, **field-installed accessories** include:

- 14-inch bolt-together curb
- 24-inch bolt-together curb
- Novar 2051 DDC
- CPC 810-3062 DDC
- CO₂ sensor
- Thermostat
- Fresh air tempering
- Coil guard
- Hail guard
- MERV 15 filters

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 IPLV]	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	SGA036H4B	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	SGA060H4B	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	SGA120H4B	CAV	123,000	119,000	3,700	12.3	13.2	130	180	240	3,000	1,391-2,540	4,800	1.0	52 x 91 x 87	1,785-1,860	
	10	SGA120H4M	MSAV	123,000	119,000	3,700	12.1	15.0	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	SGA240H4B	CAV	242,000	236,000	6,500	12.6	14.4	260	360	480	6,000	2,782-5,079	9,600	1.2	66 x 91 x 146	3,000-3,275	
	20	SGA240H4M	MSAV	242,000	236,000	6,500	12.6	16.2	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	SGB288H4B	CAV	296,000	288,000	7,700	11.6	12.3	260	360	480	7,200	7,111	11,520	1.2	66 x 91 x 145	3,068-3,320	
	24	SGB288H4M	MSAV	296,000	288,000	7,700	11.6	14.8	260	360	480	4,800-7,200	7,111	11,520	1.2	66 x 91 x 146	3,068-3,321	
									KW Range									
ELEC./ELEC. UNITS	3	SCA036H4B	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	SCA060H4B	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	SCA120H4B	CAV	123,000	119,000	3,700	12.5	13.5	15	30	45	60	3,000	3,800	4,800	1.0	52 x 91 x 87	1,678-1,750
	10	SCA120H4M	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	SCA240H4B	CAV	242,000	236,000	6,500	12.8	14.8	30	60	90	6,000	8,000	9,600	1.2	66 x 91 x 146	2,786-2,991	
	20	SCA240H4M	MSAV	242,000	236,000	6,500	12.8	16.4	30	60	90	4,000-6,000	8,000	9,600	1.2	66 x 91 x 146	2,786-2,991	
	24	SCB288H4B	CAV	296,000	288,000	7,700	11.6	12.3	30	60	90	7,200	8,000	11,520	1.2	66 x 91 x 146	2,856-2,956	
	24	SCB288H4M	MSAV	296,000	288,000	7,700	11.6	14.8	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.

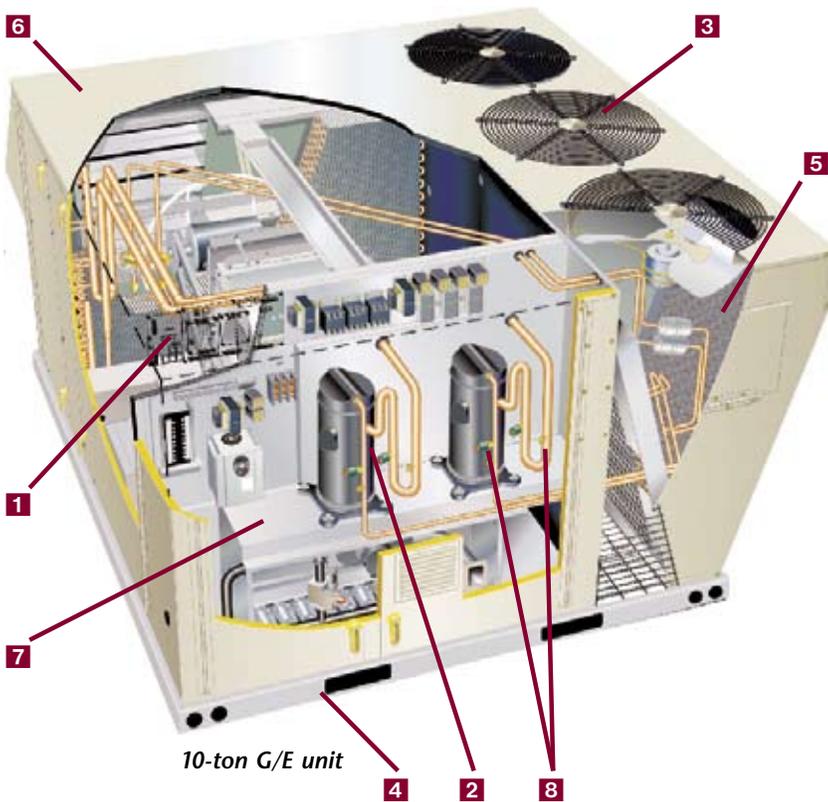
Certified (CAV units) or rated (MSAV units) in accordance with USE certification program which is based on ARI standard 340/360 (6 tons and above):

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

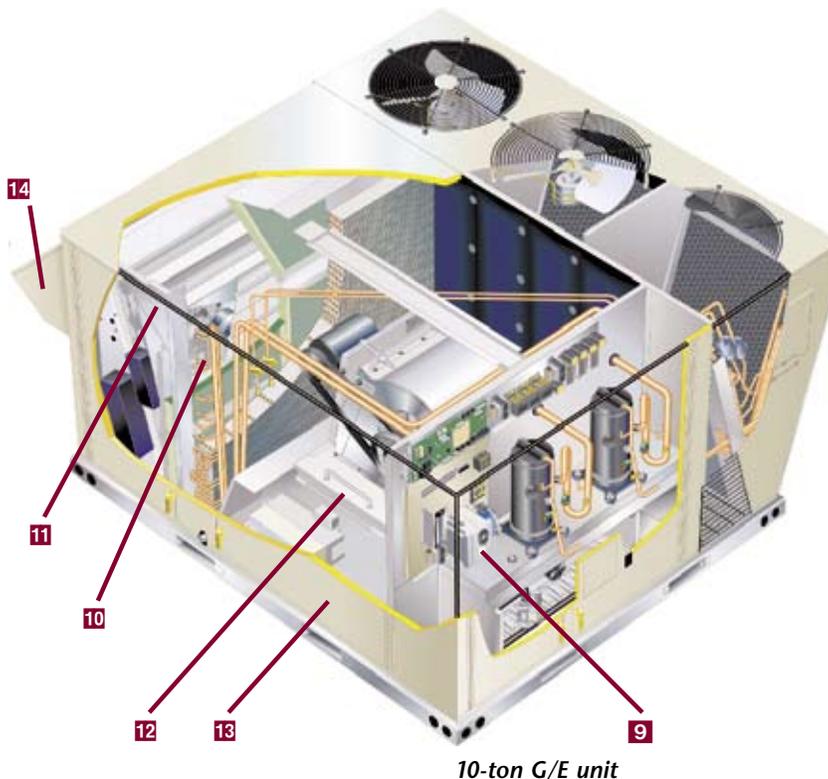
All dimensions have been rounded up to the nearest inch.

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



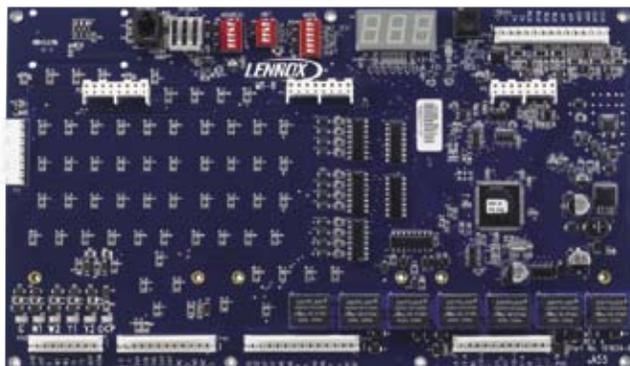
- 1 Integrated Modular Controller**—Provides centralized control and fast, simple troubleshooting to reduce service cost and improve performance.
- 2 Multiple Compressors**—Allow the unit to provide efficient cooling with up to four stages of cooling capability.
- 3 Independent Motor Mount**—Allows for 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 Slab 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 shut-off plus unit maximum overcurrent protection (not shown).
- Filter Driers**—Protect the system from dirt and moisture (not shown).

SERVICE COSTS AND PREVENT UNNECESSARY DOWNTIME

INTEGRATED MODULAR CONTROLLER



Lennox' Integrated Modular Controller has over 200 control parameters customizable for specific applications. With more than 100 simple-to-read diagnostic codes and "Strike-Three" operation to prevent false alarms, the Strategos™ rooftop unit product line helps reduce maintenance hours while controlling energy costs.

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 unit will reduce airflow to save energy. As the cooling demand increases, and the unit adds additional compressors, the unit will increase the airflow to provide more cooling capacity. The unit can provide

different airflow levels for cooling (up to four), heating (one), ventilation (one) and smoke detector mode (one). The unit 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 unit's IMC.



20-ton G/E unit



3- to 5-ton G/E unit

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
- S-Class™ Rooftop Units
- Landmark™ Rooftop Units
- L Series® Rooftop Units
- T-Class™ Rooftop Units

Split Systems

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

Heating

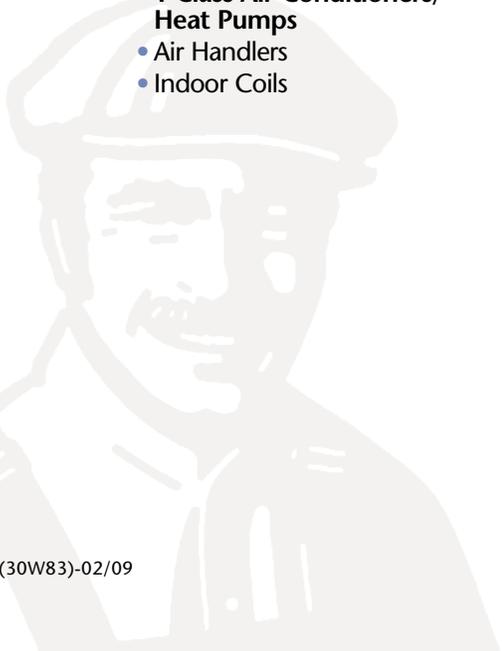
- T-Class Unit Heaters
- Unit Heaters
- Duct Furnaces
- Furnaces

Commercial Controls

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

Indoor Air Quality

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



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