

## S-CLASS®

*The most energy-efficient commercial split system\**

Commercial Air Conditioners  
and Heat Pumps  
SSB/SPB Models

Up to 16.5 SEER  
and 9.5 HSPF



**LENNOX**  
Innovation never felt so good.®



# SUPERIOR EFFICIENCY FOR MORE OF WHAT YOU WANT, LESS OF WHAT YOU DON'T

Now you can create a better indoor environment while reducing energy bills. With efficiency ratings up to 16.5 SEER and 9.5 HSPF, the S-Class® SSB/SPB split system units from Lennox are the most energy-efficient commercial split systems you can buy.\*

The S-Class split systems are available with a wide range of factory options including a variety of voltages for increased flexibility. Field-installed accessories, such as low ambient kit options and heat-pump-specific kits such as outdoor thermostats and monitoring kits, make the S-Class unit the right choice for a variety of commercial applications.

Like all Lennox® equipment, S-Class units feature durable materials and advanced construction for a quality system designed to provide years of superior service.



## S-Class® split systems at a glance:

Redesigned split systems with the highest energy efficiency you can buy\* reduce utility bills while maintaining comfort

Improved temperature and humidity control creates a more comfortable indoor environment

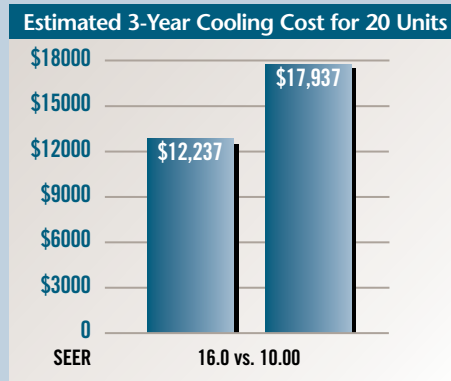
Easy-to-clean coils, with SmartHinge™ louvered panels on all sides and refrigerant service valves, reduce costs of installation and maintenance

Quiet design reduces sound levels to as low as 76 dB, eliminating much of the noise of commercial split systems

ENERGY STAR® qualified

## HIGH-EFFICIENCY UNITS SAVE YEAR AFTER YEAR

The S-Class split systems feature efficiencies up to 16.5 SEER and are ENERGY STAR qualified, which can significantly reduce utility bills.



Illustrates the 3-year cooling costs you can expect from twenty 3-ton S-Class air conditioners versus twenty units with lower efficiency ratings. 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.

**Utility rate source:** U.S. Department of Energy national average energy rates  
**Building type:** School (year-round)  
**City:** Dallas  
**Software:** Lennox Lifecycle Cost Calculator, version 3.0.9

## Efficiency Rating

Up to 16.5 Seasonal Energy Efficiency Ratio (SEER) and 9.5 Heating Seasonal Performance Factor (HSPF)

## Warranty

**5-Year Limited Warranty** on compressor

**1-Year Limited Warranty** on covered components and units

See actual warranty certificate for details.



S-Class air conditioners and heat pumps are ENERGY STAR® qualified products, helping to reduce energy spending and conserve natural resources. In addition to S-Class units, Lennox has developed a wide range of products that meet ENERGY STAR guidelines for energy efficiency.

\*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 November 2009. Efficiency ratings established per ARI's test standards: ANSI/ARI 210/240-94.



### Improve humidity control

Humidity is harder to control on mild-temperature days, when less cooling is needed. S-Class® units were designed to remove more moisture than many other systems by shifting to a lower-capacity stage on mild days to match the heat load, then running long enough to reduce both temperature and humidity.



**Humiditrol®  
Dehumidification  
System**

To enhance humidity control even further, choose the optional Humiditrol® dehumidification system.\* The patented dehumidification system controls temperature and humidity independently, reducing moisture and helping curb the spread of airborne contaminants such as mold.

Minimum system requirements include:

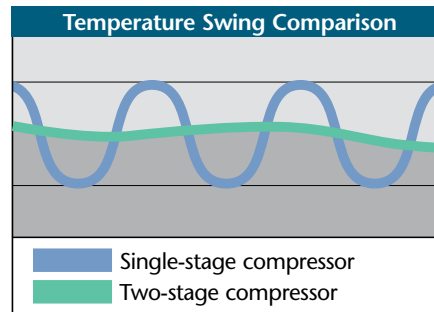
- Humiditrol dehumidification system
- ComfortSense® 7000 Series touchscreen thermostat
- Lennox® variable speed furnace or air handler
- Lennox air conditioner or heat pump

\*Not for use with zoning applications.

### Reduce installation and service hours

S-Class units feature contractor-friendly designs to reduce service time and help businesses control costs. Arriving fully charged with refrigerant and ready for installation, S-Class units have factory-wired control boxes and factory-tested coils.

The SmartHinge™ louvered panel design allows quick, easy access to interior components from all sides, so the unit can be serviced in minimal time. For easy access to the refrigerant system, the units include central refrigerant line connections and fully serviceable brass valves. The suction valve can be completely shut off during service while the liquid valve may be front-seated to manage refrigerant charge.



### One compressor provides two-compressor benefits

Each model has two operating stages, so a single-compressor unit performs like a two-compressor system, using only the amount of energy necessary to keep occupants comfortable.

Using a two-stage scroll compressor, the S-Class units eliminate temperature swings while providing just the right amount of cooling and dehumidification or heating needed.

# S-CLASS® AIR CONDITIONER AND HEAT PUMP PERFORMANCE SPECIFICATIONS

				COOLING DATA <sup>2, 3</sup>			HEATING DATA <sup>4</sup>			PHYSICAL DATA	
Nominal Tonnage		Model	Sound Rating dB <sup>1</sup>	ARI Rated Cap. [Btuh]	Efficiency [SEER] <sup>5</sup>	Efficiency [EER]	Efficiency [HSPF] <sup>6</sup>	Capacity [Btuh]	COP	Dimensions H x W x L [inches]	Ship. Wt. [lbs.]
AIR CONDITIONERS	3	SSB036H4	76	36,600	16.5	12.0	—	—	—	45 x 30.5 x 35	229
	4	SSB048H4	76	47,000	15.7	12.0	—	—	—	39 x 30.5 x 35	257
	5	SSB060H4	78	58,000	15.5	12.0	—	—	—	39 x 35.5 x 39.5	309
HEAT PUMPS	3	SPB036H4	76	37,200	15.7	12.0	8.7	34,800	3.04	39 x 30.5 x 35	273
	4	SPB048H4	76	49,000	16.2	12.0	9.2	46,000	3.70	35 x 35.5 x 39.5	294
	5	SPB060H4	78	58,000	16.0	12.0	8.7	59,500	3.30	45 x 35.5 x 39.5	353

<sup>1</sup>Sound rating number in accordance with test conditions included in ARI Standard 270.

<sup>2</sup>5-ton-and-under equipment certified in accordance with ULE certification program, which is based on ARI Standard 210/240.

<sup>3</sup>Cooling ratings, 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.

<sup>4</sup>High-temperature heating ratings, 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) entering indoor coil air.

<sup>5</sup>Up to 16.5 SEER when the S-Class SSB036H4 split system is matched with the CX34-49 coil and SLP98UH090V60C furnace.

<sup>6</sup>Up to 9.2 HSPF when the S-Class SPB060H4 split system is matched with the CH23-68 coil and SLP280UH135V60D furnace.

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

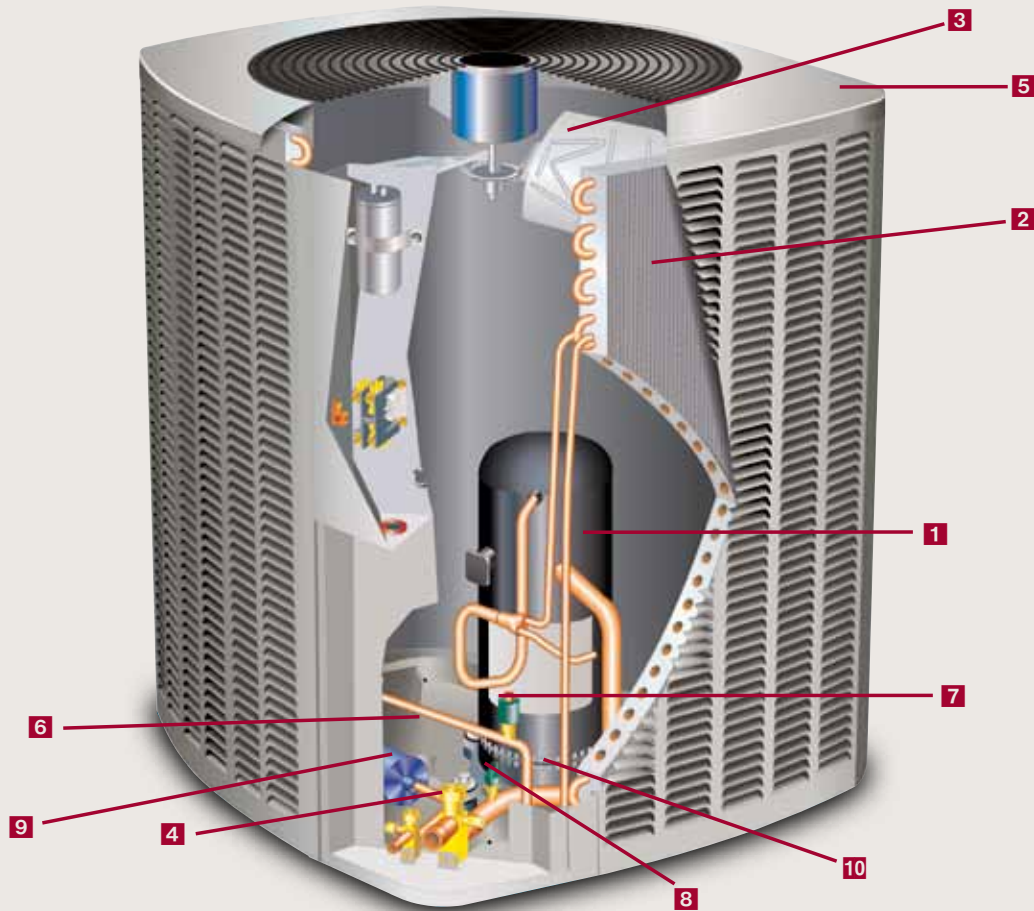
## LENNOX® PRODUCTS ARE BUILT TO LAST

Superior engineering, durable components and complete testing mean split systems that operate dependably at start-up and for years to come. Lennox® products are built with a wide range of durable components and safety features, including corrosion-resistant cabinets, drainage holes and enhanced fan guards. The SmartHinge™ louvered panels provide superior coil protection, eliminating the need for coil or hail guards.

Each unit features a two-stage scroll compressor with internal overload protection, a three-pole contactor and an enhanced coil and manifold design for excellent performance and reliability.

Low ambient control kits allow cooling as low as 30°F to meet most commercial applications. Rigorous testing and ISO 9001-2000 building standards assure dependability.

# HIGH EFFICIENCY WITH EXCELLENT TEMPERATURE AND HUMIDITY CONTROL



## SmartHinge™ Louvered Coil Protection—

Allows quick, easy access to interior components from all sides, so the unit can be serviced in minimal time.



## Quiet and efficient operation

- 1 Two-Stage Scroll Compressor**—Operates on low stage most of the time for quieter, more consistent comfort and better humidity control.
- 2 High-Efficiency Outdoor Coil**—Provides exceptional heat transfer and low air resistance for high-efficiency operation.
- 3 Quiet, Direct-Drive Fan**—Precision-balanced, direct-drive fan is designed to run slower for an enhanced level of quiet operation.

## Easy installation and maintenance

- 4 Brass Service Valves**—Isolate the refrigeration system in outdoor units and allow for simple access.

## Reliable performance

- 5 Corrosion-Resistant Cabinet**—Galvanized steel under a two-layer painted surface protects against rust and corrosion.
- 6 Drainage Holes**—Prevent damaging moisture from collecting inside the basepan.
- 7 High-Pressure Switch**—Extends the life of the unit by providing a safeguard against excessive pressure.
- 8 Low-Pressure Switch**—Extends the life of the compressor by safeguarding against loss of charge.
- 9 High-Capacity Liquid Line Filter/Drier**—Extends the life of the unit by trapping moisture and dirt that could contaminate the system.
- 10 Crankcase Heater**—Protects the compressor against refrigerant migration that can occur during low ambient operations.

# 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 Separated Combustion 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 Systems
- Air Filters
- UVC Germicidal Lights

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