

# T-CLASS™

*Performance and rugged durability*

## Commercial Air Conditioners and Heat Pumps TSA/TPA Models

UP TO 16.0 SEER  
AND 9.7 HSPF



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

# Control operational costs with reliable, energy-efficient split systems

The T-Class™ TSA/TPA line of air conditioners and heat pumps from Lennox is designed to help achieve comfort as well as energy savings. Featuring high-quality components, these units offer excellent performance and reliability.

## **T-CLASS™ SPLIT SYSTEMS AT A GLANCE:**

*High-efficiency units for  
reduced energy usage*

*Easy installation and maintenance*

*A variety of sizes for increased  
application flexibility*

*Excellent construction,  
reliability and warranties*

*ENERGY STAR® qualified*

## **EFFICIENCY RATING**

*Up to 16.0 Seasonal Energy  
Efficiency Ratio (SEER) and 9.7  
Heating Seasonal Performance  
Factor (HSPF)*

## **WARRANTIES**

*5-Year Limited Warranty  
on compressor*

*1-Year Limited Warranty  
on covered components*

*See warranty certificate for actual details.*

## **Energy efficiency**

Lennox' energy-efficient design features high-efficiency scroll compressors and outdoor coils that provide exceptional heat transfer, low air resistance and efficient operation. These units are rated up to 16.0 SEER and 9.7 HSPF to save hundreds of dollars in heating and cooling costs compared to lower-efficiency models.

## **Easy installation and maintenance**

Lennox® air conditioning and heat pump units are designed to install quickly. They arrive fully charged with factory-wired control boxes and factory-tested coils.

To ensure years of simple, low-cost service and maintenance, these units feature brass service valves, to provide easy access to the refrigerant system. The suction valve can be fully shut off, while the liquid valve may be front-seated to manage refrigerant charge.

## **Application solutions**

Lennox offers a large selection of options to meet a wide range of commercial HVAC needs. For increased flexibility, customers may choose from a variety of voltages, including 208-230/3/60, 460/3/60, and 575/3/60. Field-installed accessories, such as low ambient kit options, allow unit operation down to 30°F.

## **Excellent reliability**

Lennox split systems feature durable components and safety features. Corrosion-resistant cabinets, drainage holes, and enhanced fan and coil guards protect against unexpected service costs. In addition, high-pressure switches are standard on all models. Other field-installed accessories, such as loss-of-charge and freestat kits, provide additional protection when needed. All Lennox products are built according to demanding ISO-9001 standards and feature excellent warranties to provide peace of mind.

## **Humidity control**

T-Class air conditioners and heat pumps are available with enhanced humidity control with the optional Humiditrol® dehumidification system.\* Its patented design reduces moisture and helps to control the spread of mold and other airborne contaminants.

*\*Not for use with zoning applications.*



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

# Field-installed accessories

## Improved reliability

- **Compressor Low Ambient Cutoff:** Prevents compressor operation when outdoor temperature is below 35°F.
- **Compressor Time-Off Control:** Improves compressor reliability by preventing short-cycling. Allows the compressor to start in an unloaded condition.
- **Loss-of-Charge Kit:** Protects compressor from damage due to low-refrigerant-charge conditions.
- **Hail Guards:** Constructed of louvered, heavy-gauge steel. Surrounds unit on all four sides. Prevents damage to the coil.
- **Freezestat:** Prevents system failure in cold conditions by cycling the compressor off when the suction line temperature falls below the setpoint.

## Easy installation and maintenance

- **Mounting Base:** Extremely durable, lightweight, and sturdy high-density polyethylene provides a permanent foundation for outdoor units.
- **Unit Stand-Off Kit:** Raises unit off the mounting surface and away from potentially damaging moisture.
- **Refrigerant Line Kits:** Refrigerant lines are shipped cleaned, dried, pressurized and sealed at the factory for easy installation.

## Application solutions

- **Low Ambient Control to 30°F:** Allows unit operation down to 30°F.
- **Low Ambient Control to 0°F:** Allows unit operation down to 0°F. Requires speed control and weatherproof kit (sold separately). Available for 208/230V models only.
- **Mild Weather Kit:** Allows heating operation above 75°F (heat pump units only).

## Quiet and efficient operation

- **Compressor Sound Cover:** Reinforced vinyl cover with fiberglass insulation helps lower operating sound levels.
- **Time-Delay Relay Kit:** Improves comfort by delaying the blower-off time during the cooling cycle.



*Humiditrol®  
Dehumidification  
System*

## Enhanced humidity control

The Humiditrol® dehumidification system reduces moisture and controls the spread of airborne contaminants.

Minimum system requirements include:

- **Humiditrol® dehumidification system**
- **iComfort Wi-Fi® touchscreen thermostat\***
- **Lennox® variable speed furnace or air handler**
- **Lennox air conditioner or heat pump**

*\*Select units will also require the Electronic Interface Module.*

## T-Class™ standard efficiency AC/HP performance specifications

			COOLING DATA <sup>2, 3</sup>				HEATING DATA <sup>4</sup>			PHYSICAL DATA	
	NOM TON.	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	TSA036S4	76	35,800	14.5	12.0	—	—	—	29.25 x 24.25 x 24.25	135
	3.5	TSA042S4	80	42,000	14.0	12.0	—	—	—	29.25 x 28.25 x 28.25	178
	4	TSA048S4	80	49,500	14.5	12.5	—	—	—	37.25 x 28.25 x 28.25	194
	5	TSA060S4	80	60,500	13.5	11.6	—	—	—	33.25 x 28.25 x 28.25	218
HEAT PUMPS	3	TPA036S4	76	37,000	14.2	12.0	8.7	34,600	3.96	33.25 x 24.25 x 24.25	180
	3.5	TPA042S4	80	44,500	14.0	12.0	8.7	42,000	3.76	33.25 x 28.25 x 28.25	220
	4	TPA048S4	80	49,500	13.5	12.0	8.7	46,000	3.54	37 x 28.25 x 28.25	250
	5	TPA060S4	80	59,500	13.5	11.2	8.0	56,500	3.36	43.25 x 28.25 x 28.25	255

## T-Class high-efficiency AC/HP performance specifications

			COOLING DATA <sup>2, 3</sup>				HEATING DATA <sup>4</sup>			PHYSICAL DATA	
	NOM TON.	MODEL	SOUND RATING dB <sup>1</sup>	ARI RATED CAP. [BTUH]	EFFICIENCY [SEER] <sup>7</sup>	EFFICIENCY [EER]	EFFICIENCY [HSPF] <sup>8</sup>	CAPACITY [BTUH]	COP	DIMENSIONS H X W X L [INCHES]	SHIP. WT. [LBS.]
AIR CONDITIONERS	3	TSA036H4	76	35,800	16.0	13.5	—	—	—	37.25 x 28.25 x 28.25	164
	3.5	TSA042H4	78	43,000	15.5	13.0	—	—	—	29.25 x 28.25 x 28.25	198
	4	TSA048H4	78	49,500	15.2	12.5	—	—	—	37.25 x 28.25 x 28.25	221
	5	TSA060H4	80	58,000	15.0	12.5	—	—	—	33.25 x 32.25 x 32.25	238
HEAT PUMPS	3	TPA036H4	79	36,600	15.7	13.5	9.0	35,600	3.94	29.25 x 32.25 x 32.25	212
	3.5	TPA042H4	79	44,500	15.5	13.0	9.7	45,000	4.08	37 x 32.25 x 32.25	257
	4	TPA048H4	80	50,500	15.2	13.0	9.2	48,500	3.90	37 x 32.25 x 32.25	262
	5	TPA060H4	80	60,500	15.0	12.5	9.0	58,000	3.64	43.25 x 32.25 x 32.25	307

<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 14.5 SEER when the T-Class TSA048S4 split system is matched with the CX34-62C coil and the SL280UH110XV60C furnace.

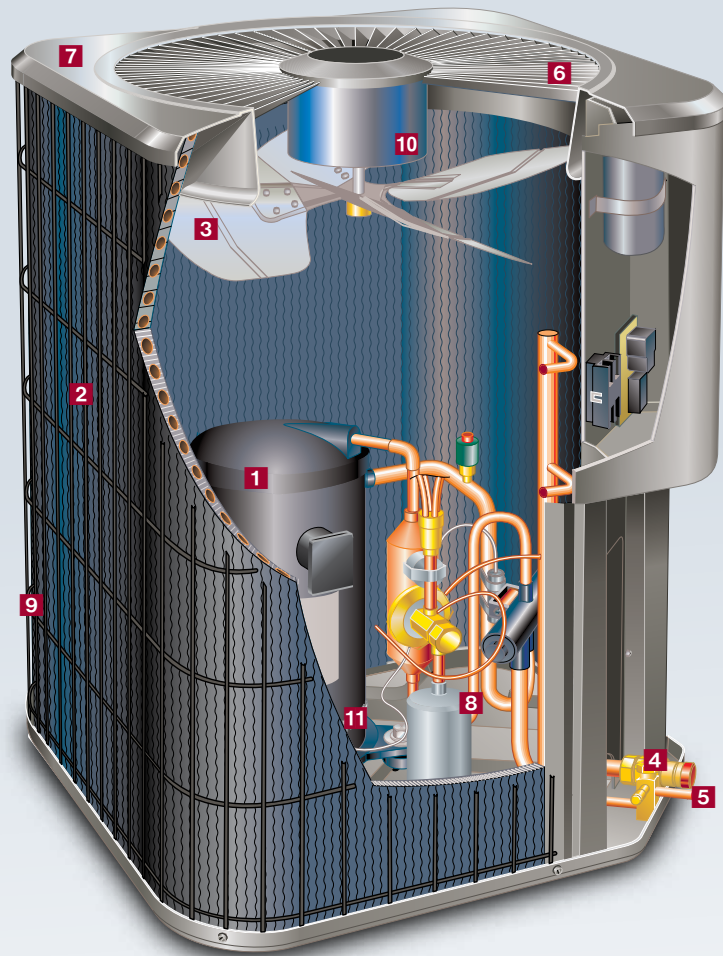
<sup>6</sup>Up to 8.7 HSPF when the T-Class TPA042S4 split system is matched with the CR33-50/60 and EL180DF110E60C furnace.

<sup>7</sup>Up to 16.0 SEER when the T-Class TSA036H4 split system is matched with the CX34-49 indoor coil and SLP98UH090XV48C furnace.

<sup>8</sup>Up to 9.7 HSPF when the T-Class TPA042H4 split system is matched with the CH23-68 indoor coil and EL180UH135E60D furnace.

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

# High efficiency with intelligent design and high-quality components



## Quiet and efficient operation

- 1 Scroll Compressor:** Provides smooth, efficient and quiet operation.
- 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.
- 5 Refrigerant Line Connections and Electrical Inlets:** Located in one central area of cabinet for easy access.

## Reliable performance

- 6 Fan Guard:** Heavy-duty guard increases safety.
- 7 Corrosion-Resistant Cabinet:** Galvanized steel under a two-layer painted surface protects against rust and corrosion.
- 8 Drainage Holes:** Prevent damaging moisture from collecting inside the basepan.
- 9 Enhanced Coil Guard:** Protects the outdoor coil, maintaining the efficiency of the unit. Heavy-gauge steel construction and non-corrosive PVC coating assure long-lasting protection.
- 10 Fan Motor:** Features a fully enclosed design with a rain shield to provide maximum protection from weather, dust, corrosion and moisture.
- 11 Crankcase Heaters:** Protect the compressor against refrigerant migration that can occur during low ambient operations.

**Solid-State Defrost Control:** Monitors the condition of the coil. Quickly and efficiently clears the buildup of frost on the coil (heat pump unit only, not shown).

# 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.



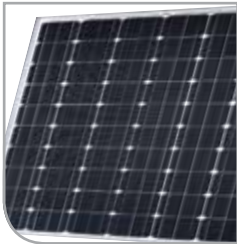
## Packaged Units

- Emergence® Rooftop Units
- Strategos® Rooftop Units
- Landmark® Rooftop Units
- Raider® Rooftop Units



## Commercial Controls

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



## Solar Ready

- SunSource® Commercial Energy System



## Indoor Air Quality

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



## Split Systems

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



## Heating

- Unit Heaters
- Duct Furnaces
- Furnaces



*Innovation never felt so good.®*

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