Commercial Air Conditioners and Heat Pumps
TSA/TPA Models

UP TO 16.0 SEER
AND 9.7 HSPF
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.

### 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 freezestat 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.

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*Not for use with zoning applications.
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. Surround unit on all four sides. Prevent 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.

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.

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.

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).
## T-Class™ Standard-Efficiency AC/HP Performance Specifications

<table>
<thead>
<tr>
<th>NOM TON.</th>
<th>MODEL</th>
<th>SOUND RATING dB</th>
<th>ARI RATED CAP. (BTUH)</th>
<th>COOLING EFFICIENCY [SEER]</th>
<th>COOLING EFFICIENCY [EER]</th>
<th>HEATING EFFICIENCY [HSPF]</th>
<th>HEATING CAPACITY (BTUH)</th>
<th>COP</th>
<th>DIMENSIONS H X W X L (INCHES)</th>
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## T-Class High-Efficiency AC/HP Performance Specifications

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<th>NOM TON.</th>
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</table>

1 Sound rating number in accordance with test conditions included in ARI Standard 270.
2 5-ton-and-under equipment certified in accordance with ULE certification program, which is based on ARI Standard 210/240.
3 Cooling ratings, 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.
4 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.
5 Up 14.5 SEER when the T-Class TSA048S4 split system is matched with the CX34-62C coil and the SL280UH110XV60C furnace.
6 Up to 8.7 HSPF when the T-Class TPA042S4 split system is matched with the CR33-50/60 and EL180DF110E60C furnace.
7 Up to 16.0 SEER when the T-Class TSA036H4 split system is matched with the CX34-49 indoor coil and SLP98UH090XV48C furnace.
8 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
- Energence® Rooftop Units
- Strategos® Rooftop Units
- Landmark® Rooftop Units
- Raider® Rooftop Units

### Solar Ready
- SunSource® Commercial Energy System

### VRF
- Outdoor Units
- Indoor Units
- Controls

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

### Mini-Split Systems
- Wall-Mounted Non-Ducted
- Ceiling Cassette Non-Ducted
- Medium-Static Ducted
- Ceiling/Floor Non-Ducted

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

### Heating
- Unit Heaters
- Duct Furnaces
- Furnaces

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

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