### Commercial Product Specifications

#### AIR CONDITIONERS

**SSB**

**ELITE® Series Split System**

R-410A - Two-Stage Compressor - Three-Phase - 60 Hz

Bulletin No. 210835  
November 2020  
Supersedes May 2020

**SEER up to 17.00**

3 to 5 Tons

Cooling Capacity - 32,400 to 59,500 Btuh

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**MODEL NUMBER IDENTIFICATION**

<table>
<thead>
<tr>
<th>Component</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Brand/Family</strong></td>
<td>S - Elite® Product Line</td>
</tr>
<tr>
<td><strong>Unit Type</strong></td>
<td>S - Split System Air Conditioner</td>
</tr>
<tr>
<td><strong>Major Design Sequence</strong></td>
<td>A - 1st Generation, B - 2nd Generation</td>
</tr>
<tr>
<td><strong>Nominal Cooling Capacity</strong></td>
<td>036 = 3 tons, 048 = 4 tons, 060 = 5 tons</td>
</tr>
<tr>
<td><strong>Cooling Efficiency</strong></td>
<td>H - High Efficiency</td>
</tr>
<tr>
<td><strong>Voltage</strong></td>
<td>Y = 208/230V-3 phase-60Hz, G = 460V-3 phase-60Hz</td>
</tr>
<tr>
<td><strong>Minor Revision Number</strong></td>
<td>1 = 1st Revision, 2 = 2nd Revision, 3 = 3rd Revision</td>
</tr>
<tr>
<td><strong>Coil Type</strong></td>
<td>4 = Four-sided</td>
</tr>
<tr>
<td><strong>Part Load Capability</strong></td>
<td>S = Part load capabilities with multi-stage operation</td>
</tr>
<tr>
<td><strong>Refrigerant Type</strong></td>
<td>4 = R-410A</td>
</tr>
</tbody>
</table>
FEATURE HIGHLIGHTS

1. Outdoor Coil Fan
2. Copper Tube/Enhanced Fin Coil
3. High Pressure Switch
4. Low Pressure Switch
5. High Capacity Liquid Line Drier
6. Two-Stage Scroll Compressor
7. Heavy Gauge Steel Cabinet
8. SmartHinge™ Louvered Coil Protection
9. Refrigerant Line Connections and Access

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APPLICATIONS
• 3 through 5 ton
• Sound levels as low as 76 dBA
• Three phase power supply
• Vertical air discharge
• Applicable to indoor air handlers or gas furnaces with indoor add-on coils
• Shipped completely factory assembled, piped and wired
• Factory test operated

REFRIGERATION SYSTEM
R-410A Refrigerant
• Non-chlorine, ozone friendly
• Unit is factory pre-charged

Outdoor Coil Fan
• Direct drive fan
• SSB048H4 (208/230V-3ph) models have a variable-speed outdoor fan motor
• Vertical air discharge
• Totally enclosed fan motor
• Ball bearings
• PVC (polyvinyl chloride) coated steel fan guard

Copper Tube/Enhanced Fin Coil
• Lennox designed and fabricated coil
• Ripple-edged aluminum fins
• Copper tube construction
• Lanced fins for maximum fin surface exposure
• Fin collars grip tubing for maximum contact area
• Flared shoulder tubing connections
• Factory tested under high pressure
• Entire coil is accessible for cleaning

High Pressure Switch
• Protects the system from high pressure conditions
• Automatic reset

Low Pressure Switch
• Shuts off unit if suction pressure falls below setting
• Provides loss of charge and freeze-up protection
• Automatic reset

Hi-Capacity Liquid Line Drier
• Factory installed in the liquid line
• Traps moisture or dirt that could contaminate the refrigerant system
• 100% molecular-sieve bead type drier

APPROVALS
• AHRI Standard 210/240 certified
• AHRI Certified system match-ups and expanded ratings, visit www.LennoxPros.com
• ENERGY STAR® Certified (certain units)
• Sound rated to AHRI Standard 270-2008 test conditions
• Tested in Lennox’ Research Laboratory environmental test room
• Rated According to U.S. Department of Energy (DOE) test procedures
• Region specific models meet the minimum efficiency requirements for U.S. DOE Federal Regional Standards in that area
• Unit and components ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
• ETL certified (U.S. and Canada)
• ISO 9001 Registered Manufacturing Quality System

WARRANTY
• Compressor:
  • Limited five years in non-residential installations
• All other covered components:
  • Limited one year in non-residential installations

NOTE - Refer to Lennox Equipment Limited Warranty certificate included with unit for specific details.
Optional Accessories

Expansion Valve Kits
- Field installed on certain indoor units
- See TXV Usage table
- Chatleff-style fitting

Freezestat
- Senses suction line temperature
- Cycles compressor off when suction line temperature falls below its setpoint
- Opens at 29°F and closes at 58°F
- Installs on or near the discharge line of the evaporator or on the suction line

Refrigerant Line Kits
- Refrigerant lines are shipped refrigeration clean
- Lines are cleaned, dried, pressurized and sealed at factory
- Suction line fully insulated
- Lines are stubbed at both ends

NOTE - Not available for -060 models. Must be field fabricated.

COMPRESSOR

Two-Stage Scroll Compressor
- High volumetric efficiency
- Uniform suction flow
- Constant discharge flow
- Quiet operation

Compressor Operation
- Two involute spiral scrolls matched together generate a series of crescent shaped gas pockets between them
- During compression, one scroll remains stationary while the other scroll orbits around it
- Gas is drawn into the outer pocket, the pocket is sealed as the scroll rotates
- As the spiral movement continues, gas pockets are pushed to the center of the scrolls
- Volume between the pockets is simultaneously reduced
- When the pocket reaches the center, gas is now at high pressure and is forced out of a port located in the center of the fixed scrolls
- During compression, several pockets are compressed simultaneously resulting in a smooth continuous compression cycle
- Continuous flank contact, maintained by centrifugal force, minimizes gas leakage and maximizes efficiency
- Compressor is tolerant to the effects of slugging and contaminants
- If this occurs, scrolls separate, allowing liquid or contaminants to be worked toward the center and discharged

- During the compression process, there are several pockets in the scroll that are compressing gas
- Modulation is achieved by venting a portion of the gas in the first suction pocket back to the low side of the compressor thereby reducing the effective displacement of the compressor
- A 24-volt DC solenoid valve inside the compressor controls staging
  - When the 3-way solenoid is energized it moves the lift ring assembly to block the ports and the compressor operates at full-load or 100% capacity
  - When the solenoid is de-energized the lift ring assembly moves to unblock the compressor ports and the compressor operates at part-load or approximately 67% of its full-load capacity
- The “loading” and “unloading” of the two stage scroll is done “on the fly” without shutting off the single-speed compressor motor between stages
  - Low gas pulses during compression reduces operational sound levels
  - Compressor motor is internally protected from excessive current and temperature
  - Compressor is installed in the unit on specially formulated, resilient rubber mounts for better sound dampening and vibration free operation

Crankcase Heater
- Crankcase heater prevents migration of liquid refrigerant into compressor and ensures proper compressor lubrication
FEATURES

CONTROLS

Optional Accessories

L Connection® Network
- Complete building automation control system for single or multi-zone applications
- Options include local interface, software for local or remote communication, and hardware for networking other control functions
- See L Connection Network Product Specifications Bulletin for details

Compressor Low Ambient Cut-Off Switch
- Non-adjustable switch (low ambient cut-out) prevents compressor operation when outdoor temperature is below 35°F

Indoor Blower Off Delay Relay
- Delays the indoor blower-off time during the cooling cycle

Indoor Blower Speed Relay Kit
- Relay kit provides optimum humidity control conditions by automatically reducing indoor blower speed during continuous fan or first-stage compressor operation

Low Ambient Control
- Air conditioners operate satisfactorily down to 45°F outdoor air temperature without any additional controls
- Two low ambient control options are available for field installation:
  1. Low Ambient Control Kit (30°F) - Allows unit operation down to 30°F.
  2. Low Ambient Control (0°F) - Allows unit operation down to 0°F. Requires Speed Control and Weatherproof Kit (ordered separately). Available for 208/230V models only.

NOTE - Freezestat should be installed on compressors equipped with a Low Ambient Kit.

Thermostat
- For thermostat options, see Optional Conventional Temperature Control Systems on page 6

CABINET

7. Heavy-gauge steel construction
- Pre-painted cabinet finish
- Louvered heavy gauge steel panels surround unit on all four sides
- Control box is conveniently located with all controls factory wired
- Corner patch plate allows access to compressor components
- Drainage holes are provided in base section for moisture removal
- High density polyethylene unit support feet raise the unit off of the mounting surface, away from damaging moisture

PermaGuard™ Unit Base
- Durable zinc-coated base section resists rust and corrosion

8. SmartHinge™ Louvered Coil Protection
- Steel louvered panels provide complete coil protection
- Panels are hinged to allow easy cleaning and servicing of coils
- Panels may be completely removed
- Interlocking tabs and slots assure tight fit on cabinet

9. Refrigerant Line Connections, Electrical Inlets and Service Valves
- Sweat connection vapor and liquid lines
- Located on corner of unit cabinet
- Vapor valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system
- Refrigerant line connections and field wiring inlets are located in one central area of the cabinet
- See dimension drawing
**OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS**

**ComfortSense® 7500 Commercial 7-Day Programmable Thermostat**

- Four-Stage Heating / Two-Stage Cooling
- Universal Multi-Stage
- Intuitive Touchscreen Interface
- Automatic Changeover between Heating and Cooling
- Full Seven-Day Programming
- Four Time Periods Per Day
- Temperature and Humidity Control
- One-Touch Away Mode
- Holiday Scheduling
- Smooth Setback Recovery (SSR)
- Performance Reports
- Notifications/Reminders
- Dehumidification/Humiditrol® Control for Split Systems and Rooftop Units
- Economizer Relay Control
- Backlit Display
- Wallplate Furnished
- FDD, ASHRAE and IECC Compliant

**ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat**

- Two-Stage Heating / Two-Stage Cooling
- Conventional Systems
- Intuitive Interface
- 5-2 Day Programming
- Program Hold
- Remote Indoor Temperature Sensing
- Smooth Setback Recovery (SSR)
- Economizer Relay Control
- Maintenance/Filter/Service Reminders
- Backlit Display
- Wallplate Furnished
- Simple Up and Down Temperature Control

**ComfortSense® Non-Programmable Thermostat**

- One-Stage Heating / Cooling
- Conventional Systems
- Intuitive Interface
- Manual Changeover
- Backlit Display
- Simple Up and Down Temperature Control
## SPECIFICATIONS

### General Data

<table>
<thead>
<tr>
<th>Model No.</th>
<th>SSB036H4</th>
<th>SSB048H4</th>
<th>SSB060H4</th>
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</thead>
<tbody>
<tr>
<td>Nominal Tonnage</td>
<td>3</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

### Connections (sweat)

- Liquid line (o.d.) - in. | 3/8 | 3/8 | 3/8 |
- Suction line (o.d.) - in. | 7/8 | 7/8 | 1-1/8 |

### Refrigerant

1 R-410A charge furnished 8 lb. 6 oz. 10 lb. 7 oz. 12 lb. 1 oz.

### Outdoor Coil

<table>
<thead>
<tr>
<th>Feature</th>
<th>SSB036H4</th>
<th>SSB048H4</th>
<th>SSB060H4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Net face area - sq. ft. - Outer coil</td>
<td>16.33</td>
<td>21.00</td>
<td>29.09</td>
</tr>
<tr>
<td>Inner coil</td>
<td>15.76</td>
<td>20.27</td>
<td>28.24</td>
</tr>
<tr>
<td>Tube diameter - in.</td>
<td>5/16</td>
<td>5/16</td>
<td>5/16</td>
</tr>
<tr>
<td>No. of rows</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Fins per inch</td>
<td>22</td>
<td>22</td>
<td>22</td>
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</tbody>
</table>

### Outdoor Fan

<table>
<thead>
<tr>
<th>Feature</th>
<th>SSB036H4</th>
<th>SSB048H4</th>
<th>SSB060H4</th>
</tr>
</thead>
<tbody>
<tr>
<td>Diameter - in.</td>
<td>22</td>
<td>22</td>
<td>26</td>
</tr>
<tr>
<td>No. of blades</td>
<td>4</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>Motor hp</td>
<td>1/4</td>
<td>1/3</td>
<td>1/3</td>
</tr>
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</table>

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Feature</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Line voltage data - 60 Hz</td>
<td>208/230V-3ph</td>
</tr>
<tr>
<td>Maximum overcurrent protection (MOCP) amps</td>
<td>25</td>
</tr>
<tr>
<td>Minimum circuit ampacity (MCA)</td>
<td>16.2</td>
</tr>
</tbody>
</table>

### Optional Accessories - ORDER SEPARATELY

- Compressor Low Ambient Cut-Off Switch 45F08
- Compressor Time-Off Control 47J27
- Freezestat 3/8 in. tubing 93G35 5/8 in. tubing 50A93
- Indoor Blower Off Delay Relay 58M81
- Indoor Blower Speed Relay Kit 40K58
- Low Ambient Kit (Fan Cycling) (down to 30°F) 34M72 68M04
- Low Ambient Control (0°F) 208/230V Only X5867 56N41
- Field Fabricate

**NOTE** - Extremes of operating range are plus 10% and minus 5% of line voltage.

1 Refrigerant charge sufficient for 15 ft. length of refrigerant lines. For longer line set requirements see the Installation Instructions for information about line set length and additional refrigerant charge required.

2 HACR type breaker or fuse.

3 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.

4 Freezestat is recommended with Low Ambient Control.
OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

<table>
<thead>
<tr>
<th>Description</th>
<th>Catalog No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>ComfortSense® 7500 Commercial 7-Day Programmable Thermostat</td>
<td>17G74</td>
</tr>
<tr>
<td>CS7500 7-Day Thermostat</td>
<td></td>
</tr>
<tr>
<td>Sensors/Accessories</td>
<td></td>
</tr>
<tr>
<td>Remote non-adjustable wall-mount 20k</td>
<td>47W36</td>
</tr>
<tr>
<td>Remote non-adjustable wall-mount 10k</td>
<td>47W37</td>
</tr>
<tr>
<td>Remote non-adjustable discharge air (duct mount)</td>
<td>19L22</td>
</tr>
<tr>
<td>Outdoor temperature sensor</td>
<td>X2658</td>
</tr>
</tbody>
</table>

| ComfortSense® 3000 Commercial 5-2 Day Programmable Thermostat | 11Y05 |
| CS3000 5-2 Day Thermostat |  |
| Sensors/Accessories |  |
| Remote non-adjustable wall mount 10k averaging | 47W37 |
| Thermostat wall mounting plate | X2659 |

| ComfortSense® Non-Programmable Thermostat | 51M32 |
| CS3000 Non-Programmable Thermostat |  |
| Sensors/Accessories |  |
| Remote non-adjustable discharge air (duct mount) | 19L22 |
| Outdoor temperature sensor | X2658 |

| Universal Thermostat Guard with Lock (clear) | 39P21 |
| Inside Dimensions (H x W) | 5 7/8 x 8 3/8 in. |

1 Up to nine of the same type remote temperature sensors can be connected in parallel.
2 Remote wall-mount sensors can be applied in any of the following combinations:
   - One Sensor - (1) 47W36, Two Sensors - (2) 47W37, Three Sensors - (2) 47W36 and (1) 47W37
   - Four Sensors - (4) 47W36, Five Sensors - (3) 47W36 and (2) 47W37

SOUND DATA

<table>
<thead>
<tr>
<th>Unit</th>
<th>Octave Band Sound Power Levels dBA, re 10⁻¹² Watts</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>125</td>
</tr>
<tr>
<td>036</td>
<td>70.6</td>
</tr>
<tr>
<td>048</td>
<td>64.7</td>
</tr>
<tr>
<td>060</td>
<td>68.9</td>
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</table>

<table>
<thead>
<tr>
<th>Sound Rating Number (dBA)</th>
<th>1  3  5  10  15  50</th>
</tr>
</thead>
<tbody>
<tr>
<td>74</td>
<td>67  62  56  53  42</td>
</tr>
<tr>
<td>74</td>
<td>67  62  56  53  42</td>
</tr>
<tr>
<td>74</td>
<td>67  62  56  53  42</td>
</tr>
</tbody>
</table>

1 Sound Rating Number at Distance From Unit (dBA at distance in ft.)
2 Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)

NOTE: The octave sound power data does not include tonal correction.
1 Tested according to AHRI Standard 270-2008 test conditions.
2 Estimated sound pressure level at distance based on AHRI Standard 275-2010 method for equipment located on the ground, roof, or on side of building wall with no adjacent reflective surface within 9.8 feet. Sound pressure levels will increase based on changes to assumptions. For other applications, refer to AHRI Standard 275.

INSTALLATION CLEARANCES

NOTES:
Service clearance of 30 in. (762 mm) must be maintained on one of the sides adjacent to the control box.
Clearance to one of the other three sides must be 36 in. (914 mm).
Clearance to one of the remaining two sides may be 12 in. (305 mm) and the final side may be 6 in. (152 mm).
A clearance of 24 in. (610 mm) must be maintained between two units. 48 in. (1219 mm) clearance required on top of unit.
## DIMENSIONS - UNIT

### BASE SECTION
(Medium and Large Base)

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>F</th>
<th>G</th>
<th>H</th>
<th>J</th>
<th>K</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
<td>in.</td>
<td>mm</td>
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<td>mm</td>
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<tr>
<td>SSB036H4</td>
<td>31</td>
<td>787</td>
<td>30-1/2</td>
<td>775</td>
<td>35</td>
<td>889</td>
<td>13-7/8</td>
<td>352</td>
<td>7-3/4</td>
<td>197</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>35</td>
<td>889</td>
<td></td>
<td></td>
<td>3-1/4</td>
<td>27-1/8</td>
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<td>991</td>
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<td>775</td>
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<td>889</td>
<td>13-7/8</td>
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<td>889</td>
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<td>SSB060H4</td>
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<td>902</td>
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<td>1003</td>
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<td></td>
<td></td>
<td></td>
<td>26-7/8</td>
<td>683</td>
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</tbody>
</table>
**TXV USAGE**

Use this table for C35, CH23, CH35 and CR33 Field Installed TXV Match-Ups.

<table>
<thead>
<tr>
<th>Outdoor Unit Model No.</th>
<th>Order No.</th>
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<tbody>
<tr>
<td>SSB036H4</td>
<td>12J19</td>
</tr>
<tr>
<td>SSB048H4</td>
<td>12J20</td>
</tr>
<tr>
<td>SSB060H4</td>
<td>12J20</td>
</tr>
</tbody>
</table>

CX35 and CHX35 coils and all Lennox air handlers are shipped with a factory installed TXV. In most cases, no change out of the valve is needed.

If a change out is required it will be listed in the "TXV SUBSTITUTIONS" table by size. The correct TXV must be ordered separately and field installed.

C35 and CH35 coils - Replace the factory installed RFC orifice with the expansion valve listed.

CR33 and CH23 coils - Use the expansion valve listed.

**AHRI STANDARD 210/240**

Cooling or heating capacities are net values, including the effects of blower motor heat, and do not include supplementary heat. Power input is the total power input to the compressor(s) and fan(s), plus any controls and other items required as part of the system for normal operation.

Units which do not have an indoor air-circulating blower furnished as part of the model, i.e., split system with indoor coil only, is established by subtracting from the total cooling capacity 1250 Btu/h per 1,000 cfm, and by adding the same amount to the heating capacity. Total power input for both heating and cooling is increased by 365 W per 1,000 cfm of indoor air circulated.

**TXV SUBSTITUTION**

A general guide for replacing the factory installed TXV if the indoor unit (coil/air handler) is larger or smaller than the outdoor unit.

<table>
<thead>
<tr>
<th>Outdoor Unit</th>
<th>Indoor Unit</th>
<th>TXV Furnished</th>
<th>TXV Replacement</th>
</tr>
</thead>
<tbody>
<tr>
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<td>2.5/3</td>
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<td>12J20</td>
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<td>12J19</td>
<td>12J20</td>
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</table>

**TXV Ranges:**

- **12J18** - 1.5 to 2.5 ton systems - Use on 2.5 ton (030) and lower systems.
- **12J19** - 3 ton systems - Use down to 2 ton (024) systems.
- **12J20** - 3.5 to 5 ton systems - Use down to 3 ton (036) systems.
<table>
<thead>
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<th>Sections</th>
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<td>TXV Substitution</td>
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