SEER up to 16.00
HSPF up to 9.50
1.5 to 5 Tons
Cooling Capacity - 18,000 to 61,000 Btuh
Heating Capacity - 17,500 to 58,500 Btuh

MODEL NUMBER IDENTIFICATION

14 HP X - 024 - 230 - 2

Nominal SEER

Unit Type
HP = Heat Pump Outdoor Unit

Refrigerant
X = R-410A

Voltage
230 = 208/230V-1phase-60hz

Nominal Cooling Capacity
018 = 1.5 tons
024 = 2 tons
030 = 2.5 tons
036 = 3 tons
042 = 3.5 tons
048 = 4 tons
060 = 5 tons

Minor Revision Number
FEATURE HIGHLIGHTS

CONTENTS

- Approvals and Warranty ................................................................. 3
- Dimensions - Unit ..................................................................... 9
- Electrical Data ........................................................................... 7
- Features ....................................................................................... 3
- Field Wiring ................................................................................ 10
- Installation Clearances ................................................................. 10
- Model Number Identification. .................................................. 1
- Optional Accessories - Order Separately ................................. 7
- Sound Data ................................................................................. 10
- Specifications ............................................................................. 7
- TXV Usage .................................................................................. 11

1. Outdoor Coil Fan
2. Copper Tube / Enhanced Fin Coil
3. Expansion Valve - Outdoor Unit
4. High Capacity Liquid Line Drier
5. Four-Way Reversing Valve
6. Scroll Compressor
7. Defrost Control
8. Heavy Gauge Steel Cabinet
9. Refrigerant Line Access
APPROVALS

• AHRI Certified to AHRI Standard 210/240
• For AHRI Certified system match-ups and expanded ratings, visit www.LennoxPROs.com
• ENERGY STAR® certified
• Sound rated to AHRI Standard 270-2008 test conditions
• Tested in the Lennox Research Laboratory environmental test room
• Rated according to U.S. Department of Energy (DOE) test procedures
• Units and components UL, 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 residential installations
  • Limited five years in non-residential installations
• All other covered components:
  • Limited five years in residential installations
  • Limited one year in non-residential installations

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

APPLICATIONS

• 1.5 through 5 tons
• Sound levels as low as 76 dBA
• Single phase power supply
• Vertical air discharge
• Applicable to indoor air handlers or gas furnaces with indoor add-on coils
• See Indoor Coils and Air Handlers sections for indoor unit data
• Shipped completely factory assembled, piped, and wired
• Factory tested operated

NOTE - When heat pumps are used with gas furnaces, a dual-fuel compatible thermostat or a zone control system with dual-fuel capabilities must be used (order separately)

NOTE - Installer must set outdoor unit, connect refrigerant lines and make electrical connections to complete job

REFRIGERATION SYSTEM

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

NOTE - Total system refrigerant charge is dependant on outdoor unit size, indoor unit size and refrigerant line length.

NOTE - Refer to the unit-mounted charging sticker to determine correct amount of charge required.

1 Outdoor Coil Fan
• Direct drive fan
• Vertical air discharge
• Ball bearings
• Inherently protected
• Totally enclosed fan motor
• Louvered steel top fan guard

2 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
• Silver soldering construction
• Factory tested under high pressure
• Steel louvered panels provide complete coil protection
• Entire coil accessible for cleaning
Expansion Valve - Outdoor Unit
- Designed and sized specifically for use in heat pump system
- Sensing bulb is located on the suction line

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

High Capacity Liquid Line Drier
- Factory installed in the liquid line
- Drier traps moisture or dirt
- 100% molecular-sieve, bead type bi-flow drier

Four-Way Reversing Valve
- Rapid changeover of refrigerant flow direction from cooling to heating and vice versa
- Operates on pressure differential between outdoor unit and indoor coil
- Factory installed

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

Loss of Charge Kit
- Helps protect the compressor from damage due low refrigerant charge conditions
- SPST
- Normally-closed
- Automatic reset

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

Scroll Compressor
- High efficiency with uniform suction flow
- Constant discharge flow, high volumetric efficiency and quiet operation
- Low gas pulses during compression reduces operational sound levels
- Compressor motor is internally protected from excessive current and temperature
- Muffler in discharge line reduces operating sound levels
- Compressor is installed in the unit on resilient rubber mounts for vibration free operation

Scroll 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

Compressor Crankcase Heater (Factory installed on -036-042-048-060 models)
- Protects against refrigerant migration that can occur during low ambient operation

Optional Accessories
Compressor Crankcase Heater (Optional for -018-024-030 models)
- Protects against refrigerant migration that can occur during low ambient operation

Compressor Sound Cover
- Reinforced vinyl compressor cover
- 1-1/2 inch thick batt of fiberglass insulation
- Hook and loop fastening tape on all open edges
### CONTROLS

**Defrost Control**
- Time/temperature defrost control
- Defrost cycle every 30, 60 or 90 minutes of compressor “on” time at outdoor coil temperatures below 42°F
- Factory setting - 90 minutes
- Anti-short cycle, timed-off control - 5 minutes
- Compressor delay - 30 seconds (field selectable) cycles the compressor in and out of defrost mode
- High and low pressure switch monitoring (five-trip lockout)
- Two diagnostic LEDs furnished for troubleshooting
- Conveniently located in control box

### Optional Accessories

**iComfort® M30 Smart Wi-Fi Thermostat**
- Wi-Fi-enabled, electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat
- 4 Heat/2 Cool
- Auto-changeover
- Dual-fuel control with optional outdoor sensor
- Controls dehumidification during cooling mode and humidification during heating mode
- Offers enhanced capabilities including humidification / dehumidification / dewpoint measurement and control, Humiditrol® control, and equipment maintenance reminders
- Easy to read 4.3 in. color touchscreen (measured diagonally)
- LCD display with backlight shows the current and set temperature, time, inside relative humidity, system status (operating mode and schedules) and outside temperature (optional outdoor sensor required)
- Smooth Setback Recovery starts system early to achieve setpoint at start of program period
- Compressor short-cycle protection (5 minutes)
- Up to four separate schedules are available plus Schedule IQ™
- One-Touch Away Mode - A quick and easy way to set the cooling and heating setpoints while away
- Smart Away™ - Uses geo-fencing technology to determine when the homeowner is within a predetermined distance from the home to operate the system when leaving, away and arriving
- Wi-Fi remote monitoring and adjustment through a home wireless network for desktop PCs, laptops and apps for smartphones or tablets
- Smart home automation compatible with Amazon Alexa®, Google Assistant and IFTTT

**NOTE** - See the iComfort® M30 Smart Wi-Fi Thermostat Product Specifications bulletin in the Controls section for more information.

### FEATURES

**Remote Outdoor Temperature Sensor**
- Used with the iComfort® M30 Smart Thermostat
- Outdoor sensor allows thermostat to display outdoor temperature

**NOTE** - Sensor is required for high and low balance points option.

**NOTE** - Sensor is required for the Enhanced Dehumidification Accessory (EDA).

**Thermostat**
- Thermostat is not furnished with unit
- See Lennox Price Book for selection

**Compressor Hard Start Kit**
- Single-phase units are equipped with a PSC compressor motor
- This type of motor normally doesn’t need a potential relay and start capacitor
- In conditions such as low voltage, this kit may be required to increase the compressor starting torque

**Compressor Low Ambient Cut-Off**
- Non-adjustable switch (low ambient cut-out)
- Prevents compressor operation in cooling mode when outdoor temperature is below 35°F

**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

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

**Low Ambient Kit**
- Heat pump can operate in the cooling mode down to 45°F outdoor air temperature without additional controls
- Allows unit to operate properly down to 30°F in the cooling mode

**NOTE** - Crankcase heater and freezestat should be installed on compressors equipped with a low ambient kit

**NOTE** - A compressor lock-out thermostat should be added to terminate compressor operation below recommended operation conditions.
| FEATURES |
|-----------------|------------------|
| **CONTROLS (continued)** | **CABINET** |
| Optional Accessories (continued) | 8 - Heavy gauge steel construction |
| Low Pressure Switch Bypass Thermostat |   • Pre-painted cabinet finish |
|   • For use in applications where the heat pump is operated in outdoor ambient temperatures below 15°F |
|   • Prevents nuisance trips from the low pressure switch |
|   • Wired in parallel with the low pressure switch |
| Mild Weather Kit |   • Louvered heavy gauge steel panels surround unit on all four sides |
|   • Heat pump units operate satisfactorily in the heating mode at outdoor air temperatures up to 75°F |
|   • Allows heating operation above 75°F |
| Monitor Kit - Service Light |   • Control box is conveniently located with all controls factory wired |
|   • Ambient compensating thermistor |
|   • Service light thermostat |
|   • For thermostats requiring indicator light inputs |
| Outdoor Thermostat Kit |   • Corner patch plate allows compressor access |
|   • Outdoor thermostat locks out some of the electric heating elements on indoor units where two-stage control is applicable |
|   • Outdoor thermostat maintains the heating load on the low power input as long as possible before allowing the full power load to come on the line |
|   • Thermostat kit and Mounting Box must be ordered separately |

<table>
<thead>
<tr>
<th><strong>Optional Accessories</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>PermaGuard™ Unit Base</td>
</tr>
<tr>
<td>• Durable zinc-coated base section resists rust and corrosion</td>
</tr>
<tr>
<td>Unit Stand-Off Kit</td>
</tr>
<tr>
<td>• Black high density polyethylene feet</td>
</tr>
<tr>
<td>• Raises unit off mounting surface</td>
</tr>
<tr>
<td>• Four feet furnished per order number</td>
</tr>
<tr>
<td>• Vapor valve can be fully shut off, while liquid valve may be front seated to manage refrigerant charge while servicing system</td>
</tr>
<tr>
<td>• Refrigerant line connections and field wiring inlets are located in one central area of the cabinet</td>
</tr>
<tr>
<td>• See dimension drawing</td>
</tr>
</tbody>
</table>
### SPECIFICATIONS

<table>
<thead>
<tr>
<th>General Data</th>
<th>Model No.</th>
<th>14HPX-018</th>
<th>14HPX-024</th>
<th>14HPX-030</th>
<th>14HPX-036</th>
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</thead>
<tbody>
<tr>
<td>Nominal Tonnage</td>
<td></td>
<td>1.5</td>
<td>2</td>
<td>2.5</td>
<td>3</td>
</tr>
<tr>
<td>1 Sound Rating Number</td>
<td></td>
<td>76</td>
<td>76</td>
<td>76</td>
<td>79</td>
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<tr>
<td></td>
<td></td>
<td>Vapor line o.d. - in.</td>
<td>3/4</td>
<td>3/4</td>
<td>3/4</td>
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<tr>
<td>2 Refrigerant</td>
<td></td>
<td>R-410A charge furnished</td>
<td>5 lbs. 11 oz.</td>
<td>5 lbs. 14 oz.</td>
<td>5 lbs. 10 oz.</td>
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<tr>
<td>Outdoor Coil</td>
<td></td>
<td>Net face area - sq. ft.</td>
<td>Outer coil</td>
<td>Inner coil</td>
<td>Outer coil</td>
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<tr>
<td></td>
<td></td>
<td>Tube diameter - in.</td>
<td>5/16</td>
<td>5/16</td>
<td>5/16</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of rows</td>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Fins per inch</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Outdoor Fan</td>
<td></td>
<td>Diameter - in.</td>
<td>22</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td></td>
<td></td>
<td>No. of Blades</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Motor hp</td>
<td>1/6</td>
<td>1/6</td>
<td>1/6</td>
</tr>
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<td></td>
<td></td>
<td>Cfm</td>
<td>2670</td>
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<td>2890</td>
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<td></td>
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<td>867</td>
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<td></td>
<td></td>
<td>Watts</td>
<td>168</td>
<td>177</td>
<td>200</td>
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<td>Shipping Data - lbs. 1 package</td>
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<td>177</td>
<td>177</td>
<td>177</td>
<td>202</td>
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### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Line voltage data - 60 Hz - 1ph</th>
<th>208/230V</th>
<th>208/230V</th>
<th>208/230V</th>
<th>208/230V</th>
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<tbody>
<tr>
<td>3 Maximum overcurrent protection (amps)</td>
<td>20</td>
<td>30</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>4 Minimum circuit ampacity</td>
<td>12.2</td>
<td>17.9</td>
<td>17.1</td>
<td>18.7</td>
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<tr>
<td>Compressor</td>
<td></td>
<td>Rated Load Amps</td>
<td>8.96</td>
<td>13.5</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Locked Rotor Amps</td>
<td>48</td>
<td>58</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Power Factor</td>
<td>0.98</td>
<td>0.98</td>
</tr>
<tr>
<td>Outdoor Fan</td>
<td></td>
<td>Full Load Amps</td>
<td>1.0</td>
<td>1.1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Locked Rotor Amps</td>
<td>1.9</td>
<td>1.9</td>
</tr>
</tbody>
</table>

### CONTROLS

| iComfort® M30 Smart Wi-Fi Thermostat | 15Z69 | |
| Remote Outdoor Temperature Sensor | X2658 | |

### OPTIONAL ACCESSORIES - ORDER SEPARATELY

| Compressor Crankcase Heater | 93M04 | |
| Compressor Hard Start Kit | Copeland 10J42 | LG 88M91 | |
| Compressor Low Ambient Cut-Off | 45F08 | |
| Compressor Sound Cover | 69J03 | |
| FREEZESTAT | 3/8 in. tubing 93G35 | 5/8 in. tubing 50A93 | |
| Indoor Blower Off Delay Relay | 58M81 | |
| Loss of Charge Kit | 84M23 | |
| Low Ambient Kit | 54M89 | |
| Low Pressure Switch Bypass Thermostat | 13W07 | |
| Mild Weather Kit | 33M07 | |
| Monitor Kit - Service Light | 76F53 | |
| Outdoor Thermostat Kit | Thermostat 10Z23 | Mounting Box 31461 | |
| Unit Stand-Off Kit | 94J45 | |

NOTE - Extremes of operating range are plus 10% and minus 5% of line voltage.
1 Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270.
2 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.
3 HACR type circuit breaker or fuse.
4 Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
5 Crankcase Heater and Freezestat are recommended with Low Ambient Kit.
## SPECIFICATIONS

### General Data

<table>
<thead>
<tr>
<th>Model No.</th>
<th>14HPX-042</th>
<th>14HPX-048</th>
<th>14HPX-060</th>
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</thead>
<tbody>
<tr>
<td>Nominal Tonnage</td>
<td>3.5</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Nominal Tonnage</td>
<td>3.5</td>
<td>4</td>
<td>5</td>
</tr>
<tr>
<td>Nominal Tonnage</td>
<td>3.5</td>
<td>4</td>
<td>5</td>
</tr>
</tbody>
</table>

1. **Sound Rating Number**
   - 79
   - 80
   - 80

2. **Connections**
   - Liquid line o.d. - in.
     - 3/8
     - 3/8
     - 3/8
   - Vapor line o.d. - in.
     - 7/8
     - 7/8
     - 7/8

2. **Refrigerant**
   - R-410A charge furnished
     - 11 lbs. 14 oz.
     - 10 lbs. 7 oz.
     - 12 lbs. 11 oz.

3. **Outdoor Coil**
   - Net face area - sq. ft.
     - Outer coil: 24.93
     - Inner coil: 24.13
   - Tube diameter - in.
     - 5/16
   - No. of rows
     - 2
   - Fins per inch
     - 22
   - Diameter - in.
     - 22
   - No. of Blades
     - 4
   - Motor hp
     - 1/3
   - Cfm
     - 4347
   - Rpm
     - 843
   - Watts
     - 299

4. **Shipping Data - lbs. 1 package**
   - 272

### ELECTRICAL DATA

<table>
<thead>
<tr>
<th>Line voltage data - 60 hz - 1ph</th>
<th>208/230V</th>
<th>208/230V</th>
<th>208/230V</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Maximum overcurrent protection (amps)</strong></td>
<td>40</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td><strong>Minimum circuit ampacity</strong></td>
<td>24.2</td>
<td>29.0</td>
<td>29.4</td>
</tr>
</tbody>
</table>
| **Compressor**
  - Rated Load Amps | 17.92 | 21.76 | 22.10 |
  - Locked Rotor Amps | 112 | 117 | 125 |
  - Power Factor | 0.99 | 0.99 | 0.99 |
| **Outdoor Fan**
  - Full Load Amps | 1.8 | 1.8 | 1.8 |
  - Locked Rotor Amps | 2.9 | 2.9 | 2.9 |

### CONTROLS

- iComfort® M30 Smart Wi-Fi Thermostat
  - 15Z69

- Remote Outdoor Temperature Sensor
  - X2658

### OPTIONAL ACCESSORIES - ORDER SEPARATELY

<table>
<thead>
<tr>
<th>Compressor Crankcase Heater</th>
<th>Factory</th>
</tr>
</thead>
<tbody>
<tr>
<td>Compressor Hard Start Kit</td>
<td>Copeland LG 88M91</td>
</tr>
<tr>
<td>Compressor Low Ambient Cut-Off</td>
<td>45F08</td>
</tr>
<tr>
<td>Compressor Sound Cover</td>
<td>69J03</td>
</tr>
<tr>
<td>Freezestat</td>
<td>3/8 in. tubing 93G35</td>
</tr>
<tr>
<td>Indoor Blower Off Delay Relay</td>
<td>58M81</td>
</tr>
<tr>
<td>Loss of Charge Kit</td>
<td>84M23</td>
</tr>
<tr>
<td>Low Ambient Kit</td>
<td>54M89</td>
</tr>
<tr>
<td>Low Pressure Switch Bypass Thermostat</td>
<td>13W07</td>
</tr>
<tr>
<td>Mild Weather Kit</td>
<td>33M07</td>
</tr>
<tr>
<td>Monitor Kit - Service Light</td>
<td>76F53</td>
</tr>
<tr>
<td>Outdoor Thermostat Kit</td>
<td>10Z23</td>
</tr>
<tr>
<td>Unit Stand-Off Kit</td>
<td>94J45</td>
</tr>
</tbody>
</table>

### NOTE

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

1. Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270.
2. Refrigerant charge sufficient for 15 ft. length of refrigerant lines.
3. HACR type circuit breaker or fuse.
4. Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.
5. Crankcase Heater and Freezestat are recommended with Low Ambient Kit.
**DIMENSIONS - UNIT**

**TOP VIEW**

- Inlet Air
- Suction Line Connection
- Liquid Line Connection

**SIDE VIEW**

- Inlet Air
- Electrical Inlets
- Side View Base Section

- Optional Unit Stand-Off Kit (4)
  (Field Installed)

- Coil Drain Outlets
  (Around perimeter of base)

- Compressor

**TOP VIEW BASE SECTION**

- Discharge Air
- Outdoor Coil Fan

<table>
<thead>
<tr>
<th>Model No.</th>
<th>A</th>
<th>B</th>
<th>C</th>
</tr>
</thead>
<tbody>
<tr>
<td>14HPX-018-230</td>
<td>28-1/4</td>
<td>718</td>
<td>37-1/4</td>
</tr>
<tr>
<td>14HPX-024-230</td>
<td>28-1/4</td>
<td>718</td>
<td>37-1/4</td>
</tr>
<tr>
<td>14HPX-030-230</td>
<td>28-1/4</td>
<td>718</td>
<td>37-1/4</td>
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<tr>
<td>14HPX-036-230</td>
<td>28-1/4</td>
<td>718</td>
<td>33-1/4</td>
</tr>
<tr>
<td>14HPX-042-230</td>
<td>32-1/4</td>
<td>819</td>
<td>37-1/4</td>
</tr>
<tr>
<td>14HPX-048-230</td>
<td>32-1/4</td>
<td>819</td>
<td>37-1/4</td>
</tr>
<tr>
<td>14HPX-060-230</td>
<td>32-1/4</td>
<td>819</td>
<td>43-1/4</td>
</tr>
</tbody>
</table>
### Field Wiring

- **A** - Two Wire Power (see Electrical Data)
- **B** - Two or Three Wire Power (size to heater capacity)
- **C** - Twelve Wire Low Voltage 18 ga. minimum
  - Fourteen Wire Low Voltage with Optional Outdoor Thermostat
- **D** - Eight Wire Low Voltage 18 ga. minimum
  - Ten Wire Low Voltage with Optional Outdoor Thermostat

**NOTE**: Field Wiring Not Furnished.

All wiring must conform to NEC or CEC and local electrical codes.

### Sound Data

<table>
<thead>
<tr>
<th>Model</th>
<th>Octave Band Sound Power Levels dBA, re 10^-12 Watts</th>
<th>Sound Rating Number (dBA)</th>
<th>Estimated Sound Pressure Level at Distance From Unit (dBA at distance in ft.)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Center Frequency - HZ 125 250 500 1000 2000 4000 8000</td>
<td></td>
<td>3 5 10 15 50</td>
</tr>
<tr>
<td>018</td>
<td>72 70.5 68.5 68 65 59.5 53.5</td>
<td>76 69 64 58 55 44</td>
<td></td>
</tr>
<tr>
<td>024</td>
<td>71 74.5 72.5 71.5 68 62.5 56.5</td>
<td>76 69 64 58 55 44</td>
<td></td>
</tr>
<tr>
<td>030</td>
<td>70.5 70.5 71.5 71.5 66 62.5 59</td>
<td>76 69 64 58 55 44</td>
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<td>036</td>
<td>78.5 77 77.5 74.5 69.5 63.5 61.5</td>
<td>79 72 67 61 58 47</td>
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<tr>
<td>042</td>
<td>76.5 78 78.5 73.5 69.5 63.5 58.5</td>
<td>79 72 67 61 58 47</td>
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<tr>
<td>048</td>
<td>75.5 78 78.5 75 70 63.5 58.5</td>
<td>80 73 68 62 59 48</td>
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<tr>
<td>060</td>
<td>75 77.5 77.5 75.5 70 65 65</td>
<td>80 73 68 62 59 48</td>
<td></td>
</tr>
</tbody>
</table>

**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. must be maintained between two units.
- 48 in. (1219 mm) clearance required on top of unit.
### TXV USAGE

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

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Order No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>14HPX-018</td>
<td>12J18</td>
</tr>
<tr>
<td>14HPX-024</td>
<td>12J18</td>
</tr>
<tr>
<td>14HPX-030</td>
<td>12J18</td>
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<td>14HPX-036</td>
<td>12J19</td>
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<tr>
<td>14HPX-042</td>
<td>12J20</td>
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<tr>
<td>14HPX-048</td>
<td>12J20</td>
</tr>
<tr>
<td>14HPX-060</td>
<td>12J20</td>
</tr>
</tbody>
</table>

CX35 and CHX35 coils and all Lennox air handlers are shipped with a factory installed TXV.

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

CR33 and CH23 - 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.
<table>
<thead>
<tr>
<th>Sections</th>
<th>Description of Change</th>
</tr>
</thead>
<tbody>
<tr>
<td>Optional Accessories</td>
<td>Added iComfort® M30 Smart Thermostat.</td>
</tr>
</tbody>
</table>