



COMMERCIAL  
PRODUCT SPECIFICATIONS

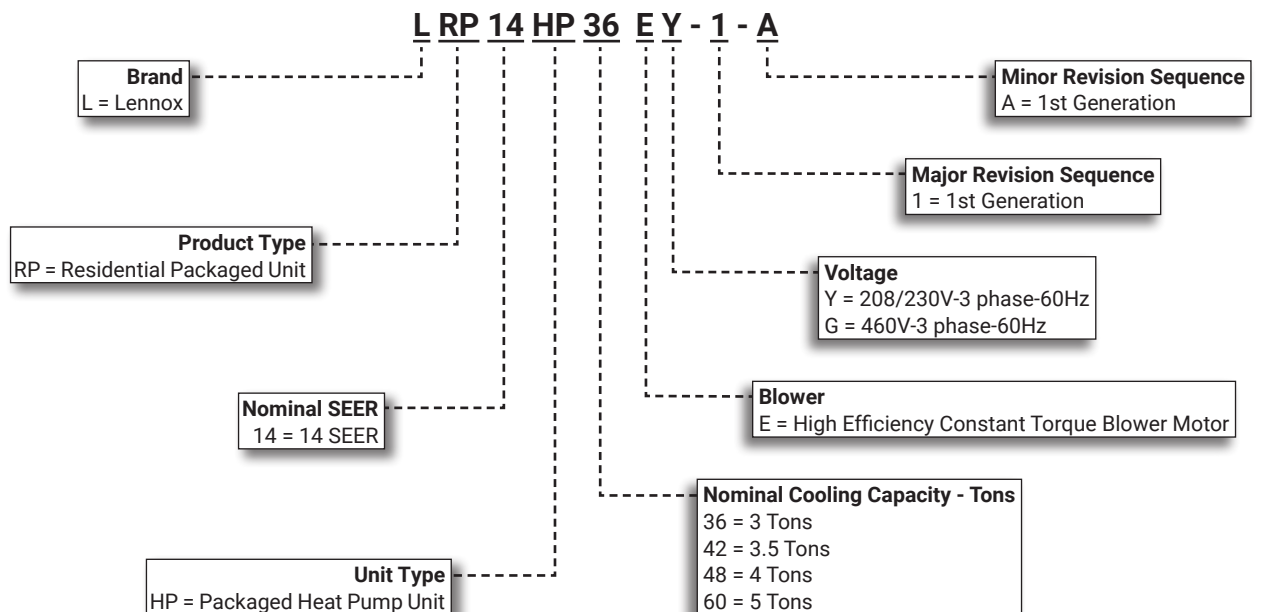
Bulletin No. 210940  
June 2023  
Supersedes January 2022



SEER - 14.00  
HSPF - 8.00  
3 to 5 Tons

Cooling Capacity - 34,000 to 57,000 Btuh  
Heating Capacity - 33,500 to 57,500 Btuh  
Optional Electric Heat - 5 to 23 kW

MODEL NUMBER IDENTIFICATION



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## APPROVALS AND WARRANTY

### APPROVALS

- AHRI Standard 210/240 certified
- Design Certified by ETL Intertek
- Unit and components ETL, NEC and CEC bonded for grounding to meet safety standards for servicing
- Optional electric heaters are ETL listed for the US and Canada and are rated and tested according to DOE test procedures and FTC labeling regulations
- All models with the Optional Seismic Strapping Kit installed have Seismic Certification for 2018 International Building Code (IBC) and 2019 California Building Code (CBC) ASCE 7
- All models are ASHRAE 90.1 compliant

### WARRANTY

- Compressors - Limited five years
- All other covered components - Limited one year

## FEATURES

### **COOLING SYSTEM**

#### **R-410A Refrigerant**

- Non-chlorine based
- Ozone-friendly
- Factory pre-charged

#### **Indoor and Outdoor Coils**

- Copper tube with aluminum fin coils
- Factory leak tested

#### **Anti-Microbial Condensate Drain Pan**

- Anti-Microbial additive resists growth of mold and mildew on drain pan which improves indoor air quality and reduces drain line blockage
- Insulated to reduce condensation
- Side drain connection

#### **Drain Pan Overflow Switch**

- Monitors condensate level in drain pan
- Shuts down unit if drain becomes clogged

#### **Outdoor Coil Fan Motor**

- Weather protected heavy duty condenser fan motor
- Coated steel fan blades for long life
- Corrosion-resistant coated steel fan guard
- Internally mounted
- Totally enclosed fan motor

#### **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

#### **High Pressure Switch**

- Protects the system from high pressure conditions
- Automatic reset.

#### **Loss of Charge Switch**

- Shuts off unit if suction pressure falls below setting
- Loss of charge and freeze-up protection

#### **Service Valves**

- Fully serviceable brass valves installed in discharge & liquid lines

### **COMPRESSOR**

#### **Scroll Compressor**

- High volumetric efficiency
- Uniform suction flow
- Constant discharge flow
- Quiet operation
- 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 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
- Muffler in discharge line reduces operating sound levels

### **Optional Accessories**

#### **Field Installed**

##### **Compressor Crankcase Heater**

- Protects against refrigerant migration that can occur during low ambient operation

##### **Compressor Timed-Off Control**

- Prevents compressor short-cycling
- Allows time for suction and discharge pressure to equalize
- Permits compressor start-up in an unloaded condition
- Automatic reset
- Five minute delay between compressor shut-off and start-up

##### **Indoor Coil Freeze Protection**

- Senses suction line temperature
- Cycles compressor off when suction line temperature falls below its setpoint

##### **Low Ambient Kit (40°F)**

- Cycles the outdoor fan while allowing compressor operation in the cooling cycle
- This intermittent fan operation allows the system to operate without icing the evaporator coil and losing capacity
- Designed for use in ambient temperatures no lower than 40°F

**NOTE** - Crankcase heater and freezestat are recommended on compressor equipped with a low ambient kit.

## FEATURES

### CABINET

- Conditioned areas insulated with foil faced insulation to minimize heat loss and reduce operating sound levels
- Powder paint for maximum durability
- Full perimeter heavy-gauge galvanized steel base rails
- Base rails have rigging holes
- Two sides of the base rails have forklift slots
- Raised edges around duct and power entry openings in the bottom of the unit for water protection
- Easy service access
- Steel louvered panels provides complete coil protection

### Airflow Choice

- Units are shipped with supply and return air duct covers installed for downflow or horizontal conversion

### Electrical Inlets and Service Valves

- Field wiring inlets are located in one central area of the cabinet
- See dimension drawing
- Service valves with gauge ports are located inside the cabinet

### Optional Accessories

#### Field Installed

##### **Bottom Power Entry Kit**

- Allows high and low voltage wiring connections through the unit base pan

##### **Base Rail Openings Closure Kit**

- Kit consists of panels and hardware to cover rigging holes and forklift slots in unit base rails

##### **Rectangular to Round Duct Adaptor Kits**

- Downflow or horizontal kits available
- Converts rectangular supply and return air openings on unit cabinet to round diameter
- Several sizes available

##### **Tool-Less Filter Access Kit**

- Converts blower access panel to two-piece design
- One panel is equipped with tool-less latches for ease filter access without removing entire blower panel

**NOTE** - Tool-Less Filter Access Kit is not for seismic-rated applications.

### CONTROLS

#### **24 Volt Transformer**

- 70VA transformer furnished and factory installed in control area

#### **Field Installed**

##### **Smoke Detector**

- Photoelectric type
- Installed in supply air and/or return air ducts
- Available with one sensor or two sensors

#### **BLOWER**

- Direct drive blower
- Blower wheel is statically and dynamically balanced
- Resiliently mounted
- Blower assembly easily removed for servicing

#### **Constant Torque Blower Motor**

- DC Brushless Motor
- High Efficiency Constant Torque
- ECM (Electronically Commutated Motor)
- Motor is programmed to provide constant torque at each of the selectable speeds
- Fixed blower "On" delay prevents cold air from entering system during gas heating demand
- See Blower Performance tables

### INDOOR AIR QUALITY

#### **Air Filters**

- Filter rack furnished as standard
- See Specifications Table for sizes

**NOTE** - Filters must be field provided.

## OPTIONS / ACCESSORIES

### **ELECTRIC HEAT (5-23 KW)**

#### Optional Accessories

#### **Field Installed**

- Field installed internal to unit cabinet
- Available in several voltages and kW sizes
- Helix wound nichrome heating elements exposed directly in air stream
- Instant heat transfer
- Low element temperatures and long service life
- Cutoff limit control provides positive protection in case of excessive temperatures
- Factory assembled with controls installed and wired

**NOTE** - Field wiring for electric heat is separate from the unit power supply. A second, separate power source is required.

### **ECONOMIZER**

#### **Field Installed**

#### Economizer

#### (Standard and High Performance Common Features)

- Convertible to downflow or horizontal
- Outdoor Air Hood is furnished
- Includes Barometric Relief Dampers with Exhaust Hood
- Barometric Relief Dampers allow relief of excess air,
- Aluminum blade dampers prevent blow back and outdoor air infiltration during off cycle
- Exhaust hood with bird screen furnished
- Single temperature control is furnished with Economizer
- Outdoor air sensor enables Economizer if the outdoor temperature is less than the setpoint of the control

#### Standard Economizer Features (Not for Title 24)

- Gear-driven action
- Return air and outdoor air dampers
- Plug-in connections to unit
- Nylon bearings
- Neoprene seals
- 24-volt
- Fully-modulating spring return motor

#### Standard Economizer Control Module

The Standard Economizer Control Module can be adjusted to operate based on outdoor air temperatures

#### Economizer Controls:

- **Damper Minimum Position** - Can be set lower than traditional minimum air requirements resulting in cost savings
- **Free Cool LED** - A steady green LED indicates outdoor air is suitable for free cooling

**NOTE** - Free Cooling runs when outdoor air temperature is lower than the set temperature on the economizer control.

**NOTE:** The Free Cooling default setting for outdoor air temperature sensor is 55°F.





#### High Performance Economizer Features

- Approved for California Title 24 building standards
- Low leakage dampers are Air Movement and Control Association International (AMCA) Class 1A Certified - Maximum 3 cfm per sq. ft. leakage at 1 in. w.g.
- ASHRAE 90.1-2010 compliant
- Gear-driven action
- High torque 24-volt fully-modulating spring return damper motor
- Return air and outdoor air dampers
- Plug-in connections to unit
- Stainless steel bearings
- Enhanced neoprene blade edge seals
- Flexible stainless steel jamb seals minimize air leakage

**NOTE** - High Performance Economizers are not approved for use with enthalpy controls in Title 24 applications.

**NOTE** - The Free Cooling setpoint for Title 24 applications must be set based on the Climate Zone where the system is installed. See Section 140.4 "Prescriptive Requirements for Space Conditioning Systems" of the California Energy Commission's 2013 Building Energy Efficiency Standards. Refer to Installation Instructions for complete setup information and menu parameters available.

#### High Performance Economizer Control Module

- Module provides inputs and outputs to control economizer based on parameter settings
- Module automatically detects sensors by polling to determine which sensors are installed in system
- Module displays any alarm messages (fault detection and diagnostics) as an aid in troubleshooting
- Non-volatile memory retains parameter settings in case of power failure
- Keypad with four navigation buttons and LCD screen is furnished for setting economizer parameters
  - Menu Up/Exit  button returns to the main menu
  - Arrow Up  button moves to the previous or next parameter within the selected menu
  - Arrow Down  button moves to the next parameter within the selected menu
  - Select (enter)  button confirms parameter selection

## OPTIONS / ACCESSORIES

### ECONOMIZER (continued)

High Performance Economizer Control Module (continued)

Main Menu Structure:

- STATUS (economizer and system operation status)
- SETPOINTS (settings for various setpoint parameters)
- SYSTEM SETUP (settings/information about the system)
- ADVANCED SETUP (freeze protection, CO<sub>2</sub> settings, stage 3 delay, and additional calibration settings)
- CHECKOUT (damper positions)
- ALARMS (output signal that can be configured for remote alarm monitoring)

**NOTE** - Refer to Installation Instructions for complete setup information and menu parameters available.

### Field Installed

Single Enthalpy Temperature Control (Not for Title 24)

- Outdoor air enthalpy sensor enables Economizer if the outdoor enthalpy is less than the setpoint of the control

### OUTDOOR AIR

#### Field Installed

Outdoor Air Dampers - Downflow

- Single blade damper
- 0 to 25% (fixed) outdoor air adjustable
- Installs in unit
- Outdoor air hood is furnished
- Automatic model features fully modulating spring return damper motor with plug-in connection
- Manual model features a slide damper

**NOTE** - Maximum mixed air temperature in cooling mode is 100°F.

### ROOF CURBS

#### Field Installed

Clip Curb (Full Perimeter)

- Interlocking tabs fasten corners together
- No tools required
- Fully gasketed around curb perimeter and supply and return openings
- Available in 8, 14, 18 and 24 inch heights
- Shipped knocked down

Adjustable Pitch Clip Curb (Full Perimeter)

- Fully adjustable pitch curb provides a level platform for packaged units
- Allows flexible installations on roofs with sloped or uneven angles
- Adjustable from 2/12 to 6/12 pitch
- Fully gasketed around curb perimeter and supply and return openings
- Shipped knocked down

#### All Curbs

- IBC 2018 compliant
- CBC 2019 compliant
- Seismic rating - SDS 2.0g, z/h=1, Ip=1.5
- Wind rating - 240 mph (Lateral), 214 mph (Uplift)
- Maximum load rating - 800 lbs.

Adaptor Curbs (not shown)

- Curbs are regionally sourced
- Dimensions vary based upon the source

**NOTE** - Contact your local sales representative for a detailed cut sheet with applicable dimensions.

Strapping Kit - Hurricane

- Galvanized steel .07 in. thick minimum
- Attaches unit base rails to host structure
- Separate kits available for Slab Mount or Rail Mount

Strapping Kit - Seismic

- Heavy-gauge galvanized steel
- Kit contains 4 brackets and mounting hardware

## OPTIONS / ACCESSORIES

| Item   | Catalog No.              | Model No. |           |           |           |   |
|--|--------------------------|-----------|-----------|-----------|-----------|---|
|  |                          | LRP14HP36 | LRP14HP42 | LRP14HP48 | LRP14HP60 |   |
| <b>COOLING SYSTEM</b>  |                          |           |           |           |           |   |
| Compressor Crankcase Heater  | 208/230V-3ph             | 11X27     | X         | X         | X         | X |
|  | 460V-3ph                 | 21D21     | X         | X         | X         | X |
| Compressor Timed-Off Control   |                          | 47J27     | X         | X         | X         | X |
| Freezestat   |                          | 21D23     | X         | X         | X         | X |
| Low Ambient Kit (40°F)   |                          | 21D20     | X         | X         | X         | X |
| <b>CABINET</b>   |                          |           |           |           |           |   |
| Base Rail Openings Closure Kit   |                          | 21J84     | X         | X         | X         | X |
| Rectangular to Round Duct Adaptor Kits   | Downflow - 14 in. dia.   | 21D26     | X         | X         | X         | X |
|  | Horizontal - 14 in. dia. | 21D24     | X         | X         | X         | X |
|  | - 16 in. dia.            | 22U78     | X         | X         | X         | X |
|  | - 18 in. dia.            | 22U79     | X         | X         | X         | X |
| <sup>1</sup> Tool-Less Filter Access Kit   |                          | 21J80     | X         | X         | X         | X |
| <b>CONTROLS</b>  |                          |           |           |           |           |   |
| Smoke Detector - Supply or Return (one sensor)   |                          | 21U21     | X         | X         | X         | X |
| Smoke Detector - Supply and Return (two sensors)   |                          | 21U22     | X         | X         | X         | X |
| <b>ELECTRICAL</b>  |                          |           |           |           |           |   |
| Bottom Power Entry Kit   |                          | 21J78     | X         | X         | X         | X |
| <b><sup>2</sup> ELECTRIC HEAT</b>  |                          |           |           |           |           |   |
| 5 kW   | 208/230V-3ph             | 21J30     | X         | X         | X         | X |
|  | 460V-3ph                 | 21J37     | X         | X         | X         | X |
| 10 kW  | 208/230V-3ph             | 21J33     | X         | X         | X         | X |
|  | 460V-3ph                 | 21J38     | X         | X         | X         | X |
| 15 kW  | 208/230V-3ph             | 21J34     | X         | X         | X         | X |
|  | 460V-3ph                 | 21J39     | X         | X         | X         | X |
| 20 kW  | 208/230V-3ph             | 21J35     |           | X         | X         | X |
|  | 460V-3ph                 | 21J40     |           | X         | X         | X |
| 23 kW  | 208/230V-3ph             | 21J36     |           |           |           | X |
|  | 460V-3ph                 | 21J41     |           |           |           | X |
| <b>ECONOMIZER</b>  |                          |           |           |           |           |   |
| <b>Standard Economizer With Outdoor Air Hood (Not for Title 24)</b>  |                          |           |           |           |           |   |
| Downflow or Horizontal (Includes Barometric Relief Dampers and Exhaust Hood)   |                          | 21U15     | X         | X         | X         | X |
| <b>High Performance Economizer With Outdoor Air Hood (Approved for California Title 24 Building Standards / AMCA Class 1A Certified)</b> |                          |           |           |           |           |   |
| Downflow or Horizontal (Includes Barometric Relief Dampers and Exhaust Hood)   |                          | 21U17     | X         | X         | X         | X |
| <b>Economizer Controls</b>   |                          |           |           |           |           |   |
| Single Enthalpy Control (Standard)   |                          | 21Z09     | X         | X         | X         | X |
| Single Enthalpy Control (High Performance)   |                          | 11G21     | X         | X         | X         | X |

<sup>1</sup> Not for seismic-rated applications.

<sup>2</sup> Field wiring for electric heat is separate from the unit power supply. A second, separate power source is required.

X = Field Installed

## OPTIONS / ACCESSORIES

| Item   | Catalog No. | Model No. |           |           |           |
|--|-------------|-----------|-----------|-----------|-----------|
|  |             | LRP14HP36 | LRP14HP42 | LRP14HP48 | LRP14HP60 |
| <b>OUTDOOR AIR</b>                               |             |           |           |           |           |
| <b>Outdoor Air Dampers With Outdoor Air Hood</b> |             |           |           |           |           |
| Motorized  | 21U19       | X         | X         | X         | X         |
| Manual   | 21U20       | X         | X         | X         | X         |
| <b>ROOF CURBS</b>                                |             |           |           |           |           |
| <b>Clip Curbs</b>                                |             |           |           |           |           |
| 8 in height                                      | 21J17       | X         | X         | X         | X         |
| 14 in height                                     | 21J19       | X         | X         | X         | X         |
| 18 in height                                     | 21J20       | X         | X         | X         | X         |
| 24 in height                                     | 21J25       | X         | X         | X         | X         |
| <b>Adjustable Pitch Clip Curb</b>                |             |           |           |           |           |
| 14 in height                                     | 21U04       | X         | X         | X         | X         |
| <b>Strapping Kits for Roof Curbs</b>             |             |           |           |           |           |
| Strapping Kit - Hurricane (Slab Mount)           | 21J74       | X         | X         | X         | X         |
| Strapping Kit - Hurricane (Rail Mount)           | 22C53       | X         | X         | X         | X         |
| Strapping Kit - Seismic                          | 21J75       | X         | X         | X         | X         |

X = Field Installed



## SPECIFICATIONS

| General Data  |   | Nominal Tonnage | 3 Ton                        | 3.5 Ton              | 4 Ton                | 5 Ton                    |
|---|---|-----------------|------------------------------|----------------------|----------------------|--------------------------|
|   | Model Number                                    |                 | LRP14HP36                    | LRP14HP42            | LRP14HP48            | LRP14HP60                |
|   | Efficiency Type                                 |                 | Standard                     | Standard             | Standard             | Standard                 |
|   | Blower Type                                     |                 | Direct Drive (ECM)           | Direct Drive (ECM)   | Direct Drive (ECM)   | Direct Drive (ECM)       |
| <b>Cooling Performance</b>  | Gross Cooling Capacity - Btuh                   |                 | 35,000                       | 41,500               | 48,000               | 59,000                   |
|   | <sup>1</sup> Net Cooling Capacity - Btuh        |                 | 34,000                       | 40,000               | 46,000               | 57,000                   |
|   | AHRI Rated Air Flow - cfm                       |                 | 1200                         | 1400                 | 1600                 | 1800                     |
|   | Total Unit Power - kW                           |                 | 2.80                         | 3.26                 | 3.76                 | 4.85                     |
|   | <sup>1</sup> SEER                               |                 | 14.00                        | 14.00                | 14.00                | 14.00                    |
|   | <sup>1</sup> EER                                |                 | 11.50                        | 11.50                | 11.50                | 11.50                    |
| <b>Heating Performance</b>  | <sup>1</sup> Total High Heating Capacity - Btuh |                 | 33,500                       | 40,100               | 46,300               | 57,500                   |
|   | Total Unit Power - kW                           |                 | 2.61                         | 3.06                 | 3.59                 | 5.12                     |
|   | <sup>1</sup> COP                                |                 | 3.70                         | 3.60                 | 3.70                 | 3.70                     |
|   | <sup>1</sup> HSPF - Region IV (Region V)        |                 | 8.00 / 6.95                  | 8.00 / 6.95          | 8.00 / 6.95          | 8.00 / 6.95              |
|   | <sup>1</sup> Total Low Heating Capacity - Btuh  |                 | 18,000                       | 22,000               | 26,000               | 34,000                   |
|   | Total Unit Power - kW                           |                 | 2.42                         | 2.85                 | 3.39                 | 4.64                     |
|   | <sup>1</sup> COP                                |                 | 2.30                         | 2.30                 | 2.30                 | 2.40                     |
|   |   |                 |                              |                      |                      |                          |
| <b>Refrigerant Charge</b>   | Refrigerant Type                                |                 | R-410A                       | R-410A               | R-410A               | R-410A                   |
|   |   |                 | 9 lbs. 13 oz.                | 9 lbs. 13 oz.        | 10 lbs. 10 oz.       | 11 lbs. 9 oz.            |
| <b>Electric Heat Available - See Electrical/Electric Heat Data Tables</b> |   |                 | 5, 10, and 15 kW             | 5, 10, 15, and 20 kW | 5, 10, 15, and 20 kW | 5, 10, 15, 20, and 23 kW |
| <b>Compressor Type</b>  |   |                 | Scroll (1)                   | Scroll (1)           | Scroll (1)           | Scroll (1)               |
| <b>Outdoor Coil</b>   | Net face area (total) - sq. ft.                 |                 | 16.60                        | 16.60                | 16.60                | 18.60                    |
|   | Tube diameter - in.                             |                 | 5/16                         | 5/16                 | 5/16                 | 5/16                     |
|   | Number of rows                                  |                 | 2                            | 2                    | 2                    | 2                        |
|   | Fins per inch                                   |                 | 22                           | 22                   | 22                   | 22                       |
| <b>Outdoor Coil Fan</b>   | Motor - (No.) horsepower                        |                 | (1) 1/3                      | (1) 1/3              | (1) 1/3              | (1) 1/3                  |
|   | Motor rpm                                       |                 | 825                          | 825                  | 825                  | 825                      |
|   | Total Motor Input - watts                       |                 | 280                          | 280                  | 280                  | 280                      |
|   | Diameter - (No.) in.                            |                 | (1) 24                       | (1) 24               | (1) 24               | (1) 24                   |
|   | Number of blades                                |                 | 3                            | 3                    | 3                    | 3                        |
|   |   |                 |                              |                      |                      |                          |
| <b>Indoor Coil</b>  | Net face area (total) - sq. ft.                 |                 | 6.75                         | 6.75                 | 6.75                 | 6.75                     |
|   | Tube diameter - in.                             |                 | 3/8                          | 3/8                  | 3/8                  | 3/8                      |
|   | Number of rows                                  |                 | 3                            | 3                    | 3                    | 3                        |
|   | Fins per inch                                   |                 | 15                           | 15                   | 15                   | 15                       |
|   | Drain connection (Number) and size - in.        |                 | (1) 3/4 in. NPT coupling     |                      |                      |                          |
|   | Expansion device type                           |                 | Refrigerant Metering Orifice |                      |                      | Balanced Port TXV        |
|   |   |                 |                              |                      |                      |                          |
|   |   |                 |                              |                      |                      |                          |
| <b>Indoor Blower</b>  | Nominal motor HP                                |                 | 0.75 HP (ECM)                | 0.75 HP (ECM)        | 1.0 HP (ECM)         | 1.0 HP (ECM)             |
|   | Blower wheel nominal diameter x width - in.     |                 | (1) 12 x 9                   | (1) 12 x 9           | (1) 12 x 9           | (1) 12 x 10              |
| <sup>2</sup> Filters  | Type of filter                                  |                 | Disposable                   |                      |                      |                          |
|   | Number and size - in.                           |                 | (2) 20 x 20 x 1              | (2) 20 x 20 x 1      | (2) 20 x 20 x 1      | (2) 20 x 20 x 1          |
| <b>Electrical characteristics</b>   |   |                 | 208/230V or 460V-60Hz -3ph   |                      |                      |                          |

NOTE - Net capacity includes evaporator blower motor heat deduction. Gross capacity does not include evaporator blower motor heat deduction.

<sup>1</sup> AHRI Certified to AHRI Standard 210/240:

**Cooling Ratings** - 95°F outdoor air temperature and 80°F db/67°F wb entering indoor coil air.

**High Temperature Heating Ratings** - 47°F db/43°F wb outdoor air temperature and 70°F entering indoor coil air.

**Low Temperature Heating Ratings** - 17°F db/15°F wb outdoor air temperature and 70°F entering indoor coil air.

<sup>2</sup> Filters are not furnished and must be field provided.

# COOLING / HEATING RATINGS

NOTE – For Temperatures and Capacities not shown in tables, see bulletin – Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

## 3 TON COOLING - LRP14HP36

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |       |       |                 |                   |                            |      |       |  |  |  |  |  |
|-------------------------------|------------------|---|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|-------|-------|-----------------|-------------------|----------------------------|------|-------|--|--|--|--|--|
|                               |                  | 85°F  |                   |                            |      |       |                 | 95°F              |                            |      |       |                 |                   | 105°F                      |      |       |                 |                   |                            | 115°F |       |                 |                   |                            |      | 125°F |  |  |  |  |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |       |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       |  |  |  |  |  |
|                               |                  |   |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |       |       |                 |                   | Dry Bulb                   |      |       |  |  |  |  |  |
| cfm                           | kBtuh            | kW  | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F  | kBtuh | kW              | 75°F              | 80°F                       | 85°F |       |  |  |  |  |  |
| 59°F                          | 1050             | 33.0  | 1.83              | .93                        | 1.00 | 1.00  | 31.8            | 2.08              | .95                        | 1.00 | 1.00  | 30.4            | 2.38              | .97                        | 1.00 | 1.00  | 28.8            | 2.71              | 1.00                       | 1.00  | 1.00  | 27.0            | 3.10              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1200             | 34.4  | 1.83              | .96                        | 1.00 | 1.00  | 33.0            | 2.09              | .99                        | 1.00 | 1.00  | 31.6            | 2.37              | 1.00                       | 1.00 | 1.00  | 29.8            | 2.71              | 1.00                       | 1.00  | 1.00  | 28.0            | 3.10              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1350             | 35.6  | 1.83              | .99                        | 1.00 | 1.00  | 34.2            | 2.09              | 1.00                       | 1.00 | 1.00  | 32.6            | 2.37              | 1.00                       | 1.00 | 1.00  | 30.8            | 2.71              | 1.00                       | 1.00  | 1.00  | 28.8            | 3.10              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
| 63°F                          | 1050             | 34.2  | 1.83              | .76                        | .89  | 1.00  | 32.4            | 2.08              | .77                        | .92  | 1.00  | 30.8            | 2.37              | .79                        | .94  | 1.00  | 28.8            | 2.70              | .81                        | .97   | 1.00  | 27.0            | 3.10              | .85                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1200             | 35.0  | 1.83              | .78                        | .93  | 1.00  | 33.4            | 2.09              | .80                        | .96  | 1.00  | 31.6            | 2.37              | .82                        | .98  | 1.00  | 29.8            | 2.71              | .85                        | 1.00  | 1.00  | 28.0            | 3.10              | .88                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1350             | 35.8  | 1.83              | .81                        | .97  | 1.00  | 34.2            | 2.09              | .83                        | .99  | 1.00  | 32.6            | 2.38              | .85                        | 1.00 | 1.00  | 30.8            | 2.71              | .88                        | 1.00  | 1.00  | 28.8            | 3.10              | .92                        | 1.00 | 1.00  |  |  |  |  |  |
| 67°F                          | 1050             | 36.0  | 1.83              | .60                        | .73  | .86   | 34.4            | 2.09              | .60                        | .75  | .88   | 32.6            | 2.38              | .61                        | .76  | .91   | 30.6            | 2.71              | .63                        | .79   | .94   | 28.2            | 3.09              | .65                        | .82  | .98   |  |  |  |  |  |
|                               | 1200             | 37.0  | 1.83              | .61                        | .76  | .90   | 35.2            | 2.09              | .62                        | .78  | .93   | 33.4            | 2.38              | .64                        | .80  | .96   | 31.2            | 2.71              | .65                        | .83   | .98   | 28.8            | 3.10              | .67                        | .86  | 1.00  |  |  |  |  |  |
|                               | 1350             | 37.8  | 1.84              | .63                        | .79  | .94   | 35.8            | 2.09              | .64                        | .81  | .97   | 34.0            | 2.38              | .65                        | .83  | .99   | 31.8            | 2.71              | .67                        | .86   | 1.00  | 29.4            | 3.10              | .69                        | .90  | 1.00  |  |  |  |  |  |
| 71°F                          | 1050             | 38.0  | 1.83              | .44                        | .58  | .71   | 36.2            | 2.09              | .45                        | .59  | .73   | 34.4            | 2.38              | .46                        | .61  | .74   | 32.2            | 2.72              | .46                        | .62   | .77   | 30.0            | 3.10              | .46                        | .63  | .80   |  |  |  |  |  |
|                               | 1200             | 39.0  | 1.84              | .46                        | .60  | .74   | 37.2            | 2.10              | .47                        | .61  | .76   | 35.2            | 2.39              | .47                        | .63  | .78   | 33.0            | 2.72              | .48                        | .64   | .81   | 30.6            | 3.10              | .49                        | .66  | .84   |  |  |  |  |  |
|                               | 1350             | 40.0  | 1.84              | .46                        | .62  | .77   | 37.8            | 2.10              | .46                        | .63  | .79   | 35.8            | 2.39              | .48                        | .65  | .81   | 33.6            | 2.72              | .49                        | .66   | .84   | 31.0            | 3.10              | .49                        | .69  | .88   |  |  |  |  |  |

## 3 TON HEATING - LRP14HP36

| Indoor Coil Air Volume<br>70°F Dry Bulb<br>cfm | Air Temperature Entering Outdoor Coil |                   |                        |                   |                        |                   |                        |                   |                        |                   |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
|  | 65°F                                  |                   | 45°F                   |                   | 25°F                   |                   | 5°F                    |                   | -15°F                  |                   |
|  | Total Heating Capacity                | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
|  |                                       |                   |                        |                   |                        |                   |                        |                   |                        |                   |
| 1050   | 43.7                                  | 2.17              | 32.9                   | 2.02              | 21.8                   | 1.87              | 13.8                   | 1.66              | 7.2                    | 1.23              |
| 1200   | 43.9                                  | 2.10              | 33.2                   | 1.95              | 22.0                   | 1.80              | 14.1                   | 1.59              | 7.5                    | 1.16              |
| 1350   | 44.1                                  | 2.05              | 33.4                   | 1.90              | 22.2                   | 1.75              | 14.3                   | 1.54              | 7.7                    | 1.11              |

## 3.5 TON COOLING - LRP14HP42

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |       |       |                 |                   |                            |      |       |  |  |  |  |  |
|-------------------------------|------------------|---|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|-------|-------|-----------------|-------------------|----------------------------|------|-------|--|--|--|--|--|
|                               |                  | 85°F  |                   |                            |      |       |                 | 95°F              |                            |      |       |                 |                   | 105°F                      |      |       |                 |                   |                            | 115°F |       |                 |                   |                            |      | 125°F |  |  |  |  |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |       |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       |  |  |  |  |  |
|                               |                  |   |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |       |       |                 |                   | Dry Bulb                   |      |       |  |  |  |  |  |
| cfm                           | kBtuh            | kW  | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F  | kBtuh | kW              | 75°F              | 80°F                       | 85°F |       |  |  |  |  |  |
| 59°F                          | 1200             | 38.5  | 2.30              | .92                        | 1.00 | 1.00  | 37.2            | 2.62              | .94                        | 1.00 | 1.00  | 35.4            | 2.99              | .97                        | 1.00 | 1.00  | 33.6            | 3.41              | .99                        | 1.00  | 1.00  | 31.4            | 3.87              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1400             | 40.5  | 2.29              | .96                        | 1.00 | 1.00  | 39.0            | 2.62              | .98                        | 1.00 | 1.00  | 37.2            | 2.98              | 1.00                       | 1.00 | 1.00  | 35.2            | 3.39              | 1.00                       | 1.00  | 1.00  | 32.8            | 3.86              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1600             | 42.5  | 2.29              | 1.00                       | 1.00 | 1.00  | 40.5            | 2.61              | 1.00                       | 1.00 | 1.00  | 38.5            | 2.98              | 1.00                       | 1.00 | 1.00  | 36.4            | 3.39              | 1.00                       | 1.00  | 1.00  | 34.0            | 3.86              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
| 63°F                          | 1200             | 40.0  | 2.30              | .75                        | .89  | 1.00  | 38.5            | 2.62              | .76                        | .91  | 1.00  | 36.2            | 2.99              | .79                        | .94  | 1.00  | 34.0            | 3.40              | .81                        | .96   | 1.00  | 31.4            | 3.87              | .84                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1400             | 41.5  | 2.29              | .78                        | .93  | 1.00  | 39.5            | 2.61              | .80                        | .96  | 1.00  | 37.2            | 2.98              | .82                        | .98  | 1.00  | 35.2            | 3.40              | .85                        | 1.00  | 1.00  | 33.0            | 3.87              | .88                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1600             | 42.5  | 2.29              | .81                        | .97  | 1.00  | 40.5            | 2.61              | .83                        | .99  | 1.00  | 38.5            | 2.97              | .86                        | 1.00 | 1.00  | 36.4            | 3.39              | .89                        | 1.00  | 1.00  | 34.0            | 3.86              | .93                        | 1.00 | 1.00  |  |  |  |  |  |
| 67°F                          | 1200             | 42.5  | 2.29              | .60                        | .73  | .85   | 40.5            | 2.61              | .60                        | .74  | .88   | 38.5            | 2.98              | .61                        | .76  | .90   | 36.0            | 3.39              | .63                        | .78   | .94   | 33.2            | 3.86              | .65                        | .81  | .97   |  |  |  |  |  |
|                               | 1400             | 44.0  | 2.28              | .61                        | .76  | .90   | 41.5            | 2.60              | .62                        | .78  | .93   | 39.5            | 2.97              | .64                        | .80  | .95   | 36.8            | 3.38              | .65                        | .83   | .99   | 34.2            | 3.86              | .67                        | .86  | 1.00  |  |  |  |  |  |
|                               | 1600             | 45.0  | 2.28              | .63                        | .79  | .94   | 42.5            | 2.60              | .64                        | .81  | .97   | 40.0            | 2.97              | .66                        | .84  | .99   | 37.6            | 3.38              | .68                        | .87   | 1.00  | 34.6            | 3.85              | .70                        | .91  | 1.00  |  |  |  |  |  |
| 71°F                          | 1200             | 44.5  | 2.27              | .45                        | .58  | .71   | 42.5            | 2.60              | .45                        | .59  | .72   | 40.5            | 2.97              | .45                        | .60  | .74   | 38.0            | 3.38              | .46                        | .62   | .76   | 35.2            | 3.85              | .47                        | .63  | .80   |  |  |  |  |  |
|                               | 1400             | 46.0  | 2.27              | .46                        | .60  | .74   | 44.0            | 2.59              | .46                        | .61  | .76   | 41.5            | 2.96              | .47                        | .63  | .78   | 39.0            | 3.37              | .47                        | .64   | .81   | 36.0            | 3.84              | .48                        | .66  | .84   |  |  |  |  |  |
|                               | 1600             | 47.0  | 2.27              | .47                        | .62  | .77   | 45.0            | 2.59              | .47                        | .64  | .79   | 42.5            | 2.95              | .48                        | .65  | .82   | 39.5            | 3.37              | .49                        | .67   | .85   | 36.6            | 3.84              | .50                        | .69  | .88   |  |  |  |  |  |

## 3.5 TON HEATING - LRP14HP42

| Indoor Coil Air Volume<br>70°F Dry Bulb<br>cfm | Air Temperature Entering Outdoor Coil |                   |                        |                   |                        |                   |                        |                   |                        |                   |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
|  | 65°F                                  |                   | 45°F                   |                   | 25°F                   |                   | 5°F                    |                   | -15°F                  |                   |
|  | Total Heating Capacity                | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
|  |                                       |                   |                        |                   |                        |                   |                        |                   |                        |                   |
| 1200   | 50.0                                  | 2.61              | 38.0                   | 2.41              | 25.7                   | 2.22              | 16.6                   | 1.95              | 8.7                    | 1420              |
| 1400   | 50.0                                  | 2.61              | 38.0                   | 2.41              | 25.7                   | 2.22              | 16.6                   | 1.95              | 8.7                    | 1420              |
| 1600   | 50.8                                  | 2.44              | 38.8                   | 2.24              | 26.5                   | 2.05              | 17.4                   | 1.78              | 9.5                    | 1250              |

# COOLING / HEATING RATINGS

NOTE - For Temperatures and Capacities not shown in tables, see bulletin - Cooling Unit Rating Table Correction Factor Data in Miscellaneous Engineering Data section.

## 4 TON COOLING - LRP14HP48

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |       |       |                 |                   |                            |      |       |  |  |  |  |  |
|-------------------------------|------------------|---|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|-------|-------|-----------------|-------------------|----------------------------|------|-------|--|--|--|--|--|
|                               |                  | 85°F  |                   |                            |      |       |                 | 95°F              |                            |      |       |                 |                   | 105°F                      |      |       |                 |                   |                            | 115°F |       |                 |                   |                            |      | 125°F |  |  |  |  |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |       |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       |  |  |  |  |  |
|                               |                  |   |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |       |       |                 |                   |                            |      |       |  |  |  |  |  |
| cfm                           | kBtuh            | kW  | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F  | kBtuh | kW              | 75°F              | 80°F                       | 85°F |       |  |  |  |  |  |
| 59°F                          | 1400             | 44.5  | 2.72              | .94                        | 1.00 | 1.00  | 43.0            | 3.07              | .96                        | 1.00 | 1.00  | 41.0            | 3.50              | .99                        | 1.00 | 1.00  | 38.5            | 4.00              | 1.00                       | 1.00  | 1.00  | 36.0            | 4.57              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1600             | 46.5  | 2.72              | .98                        | 1.00 | 1.00  | 44.5            | 3.08              | 1.00                       | 1.00 | 1.00  | 42.5            | 3.50              | 1.00                       | 1.00 | 1.00  | 40.0            | 3.99              | 1.00                       | 1.00  | 1.00  | 37.4            | 4.57              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1800             | 48.5  | 2.72              | 1.00                       | 1.00 | 1.00  | 46.0            | 3.09              | 1.00                       | 1.00 | 1.00  | 44.0            | 3.50              | 1.00                       | 1.00 | 1.00  | 41.5            | 4.00              | 1.00                       | 1.00  | 1.00  | 38.5            | 4.57              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
| 63°F                          | 1400             | 46.0  | 2.72              | .76                        | .90  | 1.00  | 44.0            | 3.08              | .78                        | .93  | 1.00  | 41.5            | 3.50              | .80                        | .96  | 1.00  | 38.5            | 4.00              | .83                        | .99   | 1.00  | 36.0            | 4.57              | .86                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1600             | 47.5  | 2.72              | .79                        | .95  | 1.00  | 45.0            | 3.09              | .81                        | .97  | 1.00  | 42.5            | 3.50              | .84                        | 1.00 | 1.00  | 40.0            | 4.00              | .87                        | 1.00  | 1.00  | 37.4            | 4.58              | .91                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1800             | 48.5  | 2.72              | .82                        | .98  | 1.00  | 46.0            | 3.08              | .84                        | 1.00 | 1.00  | 44.0            | 3.51              | .87                        | 1.00 | 1.00  | 41.5            | 4.00              | .91                        | 1.00  | 1.00  | 38.5            | 4.57              | .95                        | 1.00 | 1.00  |  |  |  |  |  |
| 67°F                          | 1400             | 49.0  | 2.73              | .60                        | .74  | .87   | 46.5            | 3.09              | .61                        | .76  | .90   | 44.0            | 3.51              | .62                        | .78  | .93   | 41.0            | 4.00              | .64                        | .81   | .96   | 37.8            | 4.57              | .66                        | .84  | 1.00  |  |  |  |  |  |
|                               | 1600             | 50.5  | 2.73              | .62                        | .77  | .92   | 48.0            | 3.09              | .63                        | .79  | .94   | 45.0            | 3.51              | .64                        | .81  | .97   | 42.0            | 4.00              | .66                        | .84   | 1.00  | 38.5            | 4.57              | .69                        | .88  | 1.00  |  |  |  |  |  |
|                               | 1800             | 51.5  | 2.73              | .64                        | .80  | .95   | 48.5            | 3.09              | .65                        | .82  | .98   | 46.0            | 3.51              | .67                        | .85  | 1.00  | 42.5            | 4.00              | .69                        | .88   | 1.00  | 39.5            | 4.57              | .72                        | .93  | 1.00  |  |  |  |  |  |
| 71°F                          | 1400             | 52.0  | 2.74              | .45                        | .59  | .72   | 49.0            | 3.09              | .46                        | .60  | .74   | 46.5            | 3.51              | .46                        | .61  | .76   | 43.5            | 4.01              | .47                        | .62   | .78   | 40.0            | 4.57              | .47                        | .65  | .82   |  |  |  |  |  |
|                               | 1600             | 53.0  | 2.74              | .46                        | .61  | .75   | 50.5            | 3.10              | .47                        | .62  | .77   | 47.5            | 3.51              | .47                        | .63  | .79   | 44.5            | 4.00              | .48                        | .65   | .82   | 41.0            | 4.58              | .49                        | .68  | .86   |  |  |  |  |  |
|                               | 1800             | 54.0  | 2.74              | .46                        | .63  | .78   | 51.5            | 3.10              | .48                        | .64  | .80   | 48.5            | 3.51              | .49                        | .66  | .83   | 45.0            | 4.01              | .49                        | .68   | .86   | 41.5            | 4.57              | .51                        | .71  | .91   |  |  |  |  |  |

## 4 TON HEATING - LRP14HP48

| Indoor Coil Air Volume<br>70°F Dry Bulb<br>cfm | Air Temperature Entering Outdoor Coil |                   |                        |                   |                        |                   |                        |                   |                        |                   |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
|  | 65°F                                  |                   | 45°F                   |                   | 25°F                   |                   | 5°F                    |                   | -15°F                  |                   |
|  | Total Heating Capacity                | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
|  | kBtuh                                 | kW                | kBtuh                  | kW                | kBtuh                  | kW                | kBtuh                  | kW                | kBtuh                  | kW                |
| 1400   | 57.2                                  | 2.95              | 43.4                   | 2.78              | 28.9                   | 2.59              | 19.9                   | 2.39              | 10.2                   | 1.76              |
| 1600   | 57.6                                  | 2.85              | 43.8                   | 2.68              | 29.3                   | 2.49              | 20.3                   | 2.29              | 10.6                   | 1.66              |
| 1800   | 58.1                                  | 2.78              | 44.3                   | 2.61              | 29.7                   | 2.43              | 20.7                   | 2.23              | 11.0                   | 1.60              |

## 5 TON COOLING - LRP14HP60

| Entering Wet Bulb Temperature | Total Air Volume | Outdoor Air Temperature Entering Outdoor Coil |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |      |       |                 |                   |                            |       |       |                 |                   |                            |      |       |  |  |  |  |  |
|-------------------------------|------------------|---|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|------|-------|-----------------|-------------------|----------------------------|-------|-------|-----------------|-------------------|----------------------------|------|-------|--|--|--|--|--|
|                               |                  | 85°F  |                   |                            |      |       |                 | 95°F              |                            |      |       |                 |                   | 105°F                      |      |       |                 |                   |                            | 115°F |       |                 |                   |                            |      | 125°F |  |  |  |  |  |
|                               |                  | Total Cool Cap.                               | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |       |       | Total Cool Cap. | Comp. Motor Input | Sensible/Total Ratio (S/T) |      |       |  |  |  |  |  |
|                               |                  |   |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |      |       |                 |                   | Dry Bulb                   |       |       |                 |                   |                            |      |       |  |  |  |  |  |
| cfm                           | kBtuh            | kW  | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F | kBtuh | kW              | 75°F              | 80°F                       | 85°F  | kBtuh | kW              | 75°F              | 80°F                       | 85°F |       |  |  |  |  |  |
| 59°F                          | 1700             | 56.0  | 3.40              | .92                        | 1.00 | 1.00  | 53.5            | 3.84              | .95                        | 1.00 | 1.00  | 51.0            | 4.35              | .97                        | 1.00 | 1.00  | 48.5            | 4.88              | 1.00                       | 1.00  | 1.00  | 45.5            | 5.54              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1800             | 57.0  | 3.41              | .94                        | 1.00 | 1.00  | 54.5            | 3.85              | .96                        | 1.00 | 1.00  | 52.0            | 4.35              | .99                        | 1.00 | 1.00  | 49.0            | 4.90              | 1.00                       | 1.00  | 1.00  | 46.0            | 5.55              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
|                               | 2000             | 58.5  | 3.42              | .97                        | 1.00 | 1.00  | 56.0            | 3.87              | .99                        | 1.00 | 1.00  | 53.5            | 4.35              | 1.00                       | 1.00 | 1.00  | 50.5            | 4.91              | 1.00                       | 1.00  | 1.00  | 47.5            | 5.54              | 1.00                       | 1.00 | 1.00  |  |  |  |  |  |
| 63°F                          | 1700             | 58.0  | 3.42              | .75                        | .89  | 1.00  | 55.0            | 3.86              | .77                        | .91  | 1.00  | 52.0            | 4.34              | .79                        | .94  | 1.00  | 49.0            | 4.89              | .81                        | .97   | 1.00  | 45.5            | 5.54              | .84                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 1800             | 59.0  | 3.42              | .76                        | .91  | 1.00  | 56.0            | 3.86              | .78                        | .93  | 1.00  | 52.5            | 4.35              | .80                        | .96  | 1.00  | 49.5            | 4.90              | .83                        | .99   | 1.00  | 46.0            | 5.54              | .86                        | 1.00 | 1.00  |  |  |  |  |  |
|                               | 2000             | 60.0  | 3.43              | .79                        | .94  | 1.00  | 57.0            | 3.87              | .81                        | .96  | 1.00  | 53.5            | 4.36              | .83                        | .99  | 1.00  | 50.5            | 4.90              | .86                        | 1.00  | 1.00  | 47.5            | 5.55              | .90                        | 1.00 | 1.00  |  |  |  |  |  |
| 67°F                          | 1700             | 61.5  | 3.44              | .59                        | .73  | .86   | 58.5            | 3.88              | .60                        | .75  | .88   | 55.0            | 4.37              | .62                        | .77  | .91   | 52.0            | 4.92              | .63                        | .79   | .94   | 48.0            | 5.55              | .65                        | .82  | .98   |  |  |  |  |  |
|                               | 1800             | 62.5  | 3.44              | .60                        | .74  | .87   | 59.0            | 3.88              | .61                        | .76  | .90   | 56.0            | 4.37              | .63                        | .78  | .93   | 52.5            | 4.92              | .64                        | .80   | .96   | 48.5            | 5.55              | .66                        | .84  | .99   |  |  |  |  |  |
|                               | 2000             | 63.5  | 3.45              | .61                        | .76  | .91   | 60.5            | 3.88              | .63                        | .78  | .93   | 57.0            | 4.38              | .64                        | .81  | .96   | 53.0            | 4.93              | .66                        | .83   | .99   | 49.0            | 5.56              | .68                        | .88  | 1.00  |  |  |  |  |  |
| 71°F                          | 1700             | 64.5  | 3.45              | .44                        | .57  | .71   | 61.5            | 3.89              | .45                        | .58  | .72   | 58.5            | 4.39              | .45                        | .60  | .74   | 54.5            | 4.93              | .46                        | .62   | .77   | 50.5            | 5.57              | .46                        | .64  | .80   |  |  |  |  |  |
|                               | 1800             | 65.5  | 3.45              | .45                        | .58  | .72   | 62.5            | 3.90              | .45                        | .60  | .74   | 59.0            | 4.39              | .46                        | .61  | .76   | 55.0            | 4.96              | .46                        | .63   | .78   | 51.0            | 5.58              | .46                        | .65  | .81   |  |  |  |  |  |
|                               | 2000             | 67.0  | 3.47              | .46                        | .60  | .74   | 63.5            | 3.90              | .46                        | .61  | .76   | 60.0            | 4.41              | .47                        | .63  | .78   | 56.0            | 4.97              | .47                        | .65   | .81   | 52.0            | 5.59              | .48                        | .67  | .85   |  |  |  |  |  |

## 5 TON HEATING - LRP14HP60

| Indoor Coil Air Volume<br>70°F Dry Bulb<br>cfm | Air Temperature Entering Outdoor Coil |                   |                        |                   |                        |                   |                        |                   |                        |                   |
|--|---------------------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|------------------------|-------------------|
|  | 65°F                                  |                   | 45°F                   |                   | 25°F                   |                   | 5°F                    |                   | -15°F                  |                   |
|  | Total Heating Capacity                | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input | Total Heating Capacity | Comp. Motor Input |
|  | kBtuh                                 | kW                | kBtuh                  | kW                | kBtuh                  | kW                | kBtuh                  | kW                | kBtuh                  | kW                |
| 1700   | 73.8                                  | 4.25              | 56.9                   | 3.97              | 39.6                   | 3.68              | 26.2                   | 3.27              | 13.5                   | 2.39              |
| 1800   | 74.0                                  | 4.20              | 57.2                   | 3.91              | 39.9                   | 3.63              | 26.5                   | 3.21              | 13.8                   | 2.34              |
| 2000   | 74.4                                  | 4.11              | 57.6                   | 3.82              | 40.3                   | 3.54              | 26.9                   | 3.12              | 14.2                   | 2.25              |

## BLOWER DATA

### LRP14HP36

| Blower Tap                                 | External Static (in.w.g.) |      |      |      |      |      |      |      |      |      |      |
|--|---------------------------|------|------|------|------|------|------|------|------|------|------|
|  |                           | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| Tap 1<br>(Fan Only)                        | CFM                       | 839  | 756  | 658  | 531  | 446  | 366  | ---  | ---  | ---  | ---  |
|  | RPM                       | 431  | 481  | 540  | 606  | 655  | 702  | ---  | ---  | ---  | ---  |
|  | Watts                     | 66   | 72   | 78   | 86   | 91   | 97   | ---  | ---  | ---  | ---  |
| Tap 2<br>(Low Cooling)                     | CFM                       | 1241 | 1204 | 1157 | 1109 | 1067 | 1024 | 978  | 931  | 885  | 848  |
|  | RPM                       | 762  | 784  | 809  | 836  | 862  | 891  | 919  | 947  | 973  | 999  |
|  | Watts                     | 261  | 268  | 276  | 283  | 290  | 299  | 307  | 314  | 322  | 329  |
| Tap 3<br>(High Cooling)                    | CFM                       | 1547 | 1508 | 1477 | 1440 | 1398 | 1364 | 1332 | 1291 | 1260 | 1220 |
|  | RPM                       | 917  | 940  | 958  | 978  | 999  | 1018 | 1040 | 1063 | 1085 | 1106 |
|  | Watts                     | 475  | 484  | 493  | 501  | 511  | 519  | 529  | 538  | 549  | 554  |
| <sup>1</sup> Tap 4<br>(Low Electric Heat)  | CFM                       | 1241 | 1204 | 1157 | 1109 | 1067 | 1024 | 978  | 931  | 885  | 848  |
|  | RPM                       | 762  | 784  | 809  | 836  | 862  | 891  | 919  | 947  | 973  | 999  |
|  | Watts                     | 261  | 268  | 276  | 283  | 290  | 299  | 307  | 314  | 322  | 329  |
| <sup>1</sup> Tap 5<br>(High Electric Heat) | CFM                       | 1547 | 1508 | 1477 | 1440 | 1398 | 1364 | 1332 | 1291 | 1260 | 1220 |
|  | RPM                       | 917  | 940  | 958  | 978  | 999  | 1018 | 1040 | 1063 | 1085 | 1106 |
|  | Watts                     | 475  | 484  | 493  | 501  | 511  | 519  | 529  | 538  | 549  | 554  |

NOTE - All air data is measured external to unit with dry coil and without air filters.

<sup>1</sup> Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

### LRP14HP42

| Blower Tap                                 | External Static (in.w.g.) |      |      |      |      |      |      |      |      |      |      |
|--|---------------------------|------|------|------|------|------|------|------|------|------|------|
|  |                           | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| Tap 1<br>(Fan Only)                        | CFM                       | 833  | 758  | 676  | 569  | 493  | 406  | 346  | ---  | ---  | ---  |
|  | RPM                       | 441  | 493  | 547  | 605  | 659  | 708  | 745  | ---  | ---  | ---  |
|  | Watts                     | 67   | 73   | 79   | 87   | 92   | 99   | 103  | ---  | ---  | ---  |
| Tap 2<br>(Low Cooling)                     | CFM                       | 1575 | 1519 | 1475 | 1438 | 1411 | 1376 | 1341 | 1294 | 1252 | 1209 |
|  | RPM                       | 777  | 805  | 832  | 857  | 882  | 908  | 937  | 968  | 995  | 1024 |
|  | Watts                     | 370  | 382  | 394  | 405  | 416  | 428  | 440  | 454  | 467  | 478  |
| Tap 3<br>(High Cooling)                    | CFM                       | 1818 | 1772 | 1726 | 1680 | 1638 | 1599 | 1562 | 1518 | 1475 | 1429 |
|  | RPM                       | 751  | 780  | 806  | 833  | 861  | 884  | 907  | 931  | 962  | 988  |
|  | Watts                     | 396  | 410  | 420  | 433  | 445  | 455  | 465  | 476  | 489  | 500  |
| <sup>1</sup> Tap 4<br>(Low Electric Heat)  | CFM                       | 1575 | 1519 | 1475 | 1438 | 1411 | 1376 | 1341 | 1294 | 1252 | 1209 |
|  | RPM                       | 777  | 805  | 832  | 857  | 882  | 908  | 937  | 968  | 995  | 1024 |
|  | Watts                     | 370  | 382  | 394  | 405  | 416  | 428  | 440  | 454  | 467  | 478  |
| <sup>1</sup> Tap 5<br>(High Electric Heat) | CFM                       | 1818 | 1772 | 1726 | 1680 | 1638 | 1599 | 1562 | 1518 | 1475 | 1429 |
|  | RPM                       | 751  | 780  | 806  | 833  | 861  | 884  | 907  | 931  | 962  | 988  |
|  | Watts                     | 396  | 410  | 420  | 433  | 445  | 455  | 465  | 476  | 489  | 500  |

NOTE - All air data is measured external to unit with dry coil and without air filters.

<sup>1</sup> Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

## BLOWER DATA

### LRP14HP48

| Blower Tap                                 | External Static (in.w.g.) |      |      |      |      |      |      |      |      |      |      |
|--|---------------------------|------|------|------|------|------|------|------|------|------|------|
|  |                           | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| Tap 1<br>(Fan Only)                        | CFM                       | 839  | 757  | 658  | 532  | 447  | 366  | ---  | ---  | ---  | ---  |
|  | RPM                       | 431  | 481  | 540  | 606  | 655  | 702  | ---  | ---  | ---  | ---  |
|  | Watts                     | 66   | 72   | 78   | 86   | 91   | 97   | ---  | ---  | ---  | ---  |
| Tap 2<br>(Low Cooling)                     | CFM                       | 1677 | 1624 | 1577 | 1526 | 1481 | 1432 | 1385 | 1336 | 1279 | 1226 |
|  | RPM                       | 698  | 729  | 759  | 789  | 816  | 843  | 872  | 902  | 934  | 968  |
|  | Watts                     | 335  | 347  | 359  | 370  | 380  | 390  | 401  | 412  | 425  | 438  |
| Tap 3<br>(High Cooling)                    | CFM                       | 1972 | 1931 | 1885 | 1840 | 1803 | 1758 | 1725 | 1685 | 1644 | 1602 |
|  | RPM                       | 797  | 823  | 853  | 880  | 903  | 929  | 951  | 974  | 997  | 1024 |
|  | Watts                     | 532  | 545  | 560  | 575  | 587  | 601  | 613  | 623  | 634  | 648  |
| <sup>1</sup> Tap 4<br>(Low Electric Heat)  | CFM                       | 1677 | 1624 | 1577 | 1526 | 1481 | 1432 | 1385 | 1336 | 1279 | 1226 |
|  | RPM                       | 698  | 729  | 759  | 789  | 816  | 843  | 872  | 902  | 934  | 968  |
|  | Watts                     | 335  | 347  | 359  | 370  | 380  | 390  | 401  | 412  | 425  | 438  |
| <sup>1</sup> Tap 5<br>(High Electric Heat) | CFM                       | 1972 | 1931 | 1885 | 1840 | 1803 | 1758 | 1725 | 1685 | 1644 | 1602 |
|  | RPM                       | 797  | 823  | 853  | 880  | 903  | 929  | 951  | 974  | 997  | 1024 |
|  | Watts                     | 532  | 545  | 560  | 575  | 587  | 601  | 613  | 623  | 634  | 648  |

NOTE - All air data is measured external to unit with dry coil and without air filters.

<sup>1</sup> Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

### LRP14HP60

| Blower Tap                                 | External Static (in.w.g.) |      |      |      |      |      |      |      |      |      |      |
|--|---------------------------|------|------|------|------|------|------|------|------|------|------|
|  |                           | 0.1  | 0.2  | 0.3  | 0.4  | 0.5  | 0.6  | 0.7  | 0.8  | 0.9  | 1.0  |
| Tap 1<br>(Fan Only)                        | CFM                       | 1378 | 1320 | 1269 | 1223 | 1160 | 1099 | 1030 | 965  | 899  | 833  |
|  | RPM                       | 603  | 639  | 668  | 699  | 740  | 778  | 816  | 855  | 894  | 931  |
|  | Watts                     | 181  | 191  | 197  | 205  | 214  | 224  | 233  | 242  | 251  | 261  |
| Tap 2<br>(Low Cooling)                     | CFM                       | 1980 | 1936 | 1893 | 1852 | 1816 | 1780 | 1740 | 1703 | 1660 | 1615 |
|  | RPM                       | 806  | 833  | 862  | 887  | 903  | 927  | 951  | 971  | 1002 | 1029 |
|  | Watts                     | 460  | 472  | 484  | 498  | 504  | 516  | 526  | 536  | 551  | 564  |
| Tap 3<br>(High Cooling)                    | CFM                       | 2340 | 2300 | 2259 | 2224 | 2187 | 2158 | 2139 | 2108 | 2079 | 2038 |
|  | RPM                       | 931  | 958  | 981  | 1004 | 1027 | 1047 | 1063 | 1081 | 1099 | 1116 |
|  | Watts                     | 742  | 760  | 775  | 790  | 805  | 820  | 829  | 841  | 852  | 858  |
| <sup>1</sup> Tap 4<br>(Low Electric Heat)  | CFM                       | 2232 | 2194 | 2154 | 2129 | 2089 | 2057 | 2026 | 1991 | 1960 | 1926 |
|  | RPM                       | 897  | 917  | 946  | 970  | 993  | 1012 | 1028 | 1048 | 1068 | 1089 |
|  | Watts                     | 653  | 666  | 683  | 696  | 708  | 722  | 731  | 743  | 755  | 767  |
| <sup>1</sup> Tap 5<br>(High Electric Heat) | CFM                       | 2329 | 2291 | 2256 | 2220 | 2183 | 2153 | 2136 | 2102 | 2075 | 2035 |
|  | RPM                       | 931  | 954  | 980  | 1000 | 1025 | 1044 | 1061 | 1081 | 1102 | 1116 |
|  | Watts                     | 742  | 757  | 773  | 785  | 804  | 815  | 828  | 841  | 855  | 858  |

NOTE - All air data is measured external to unit with dry coil and without air filters.

<sup>1</sup> Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

## BLOWER DATA

### AIR RESISTANCE DATA - in. w.g.

| Air Volume<br>cfm | Wet Indoor Coil |      |      | Optional<br>Economizer | Rectangular to Round Duct Adaptor Kits |                 |                 |                 |
|-------------------|-----------------|------|------|------------------------|--|-----------------|-----------------|-----------------|
|                   | 036, 042        | 048  | 060  |                        | Downflow                               | Horizontal      |                 |                 |
|                   |                 |      |      |                        | 14 in. Diameter                        | 14 in. Diameter | 16 in. Diameter | 18 in. Diameter |
| 600               | 0.01            | 0.01 | ---  | 0.02                   | ---                                    | ---             | ---             | ---             |
| 700               | 0.01            | 0.01 | 0.01 | 0.03                   | 0.13                                   | 0.13            | ---             | ---             |
| 800               | 0.01            | 0.01 | 0.01 | 0.04                   | 0.16                                   | 0.17            | ---             | ---             |
| 900               | 0.02            | 0.01 | 0.01 | 0.05                   | 0.21                                   | 0.21            | ---             | ---             |
| 1000              | 0.02            | 0.02 | 0.02 | 0.06                   | 0.25                                   | 0.24            | 0.11            | 0.03            |
| 1100              | 0.02            | 0.02 | 0.02 | 0.07                   | 0.30                                   | 0.30            | 0.11            | 0.03            |
| 1200              | 0.03            | 0.02 | 0.02 | 0.08                   | 0.37                                   | 0.36            | 0.13            | 0.03            |
| 1300              | 0.03            | 0.03 | 0.03 | 0.10                   | 0.43                                   | 0.43            | 0.17            | 0.03            |
| 1400              | 0.04            | 0.03 | 0.03 | 0.12                   | 0.51                                   | 0.50            | 0.20            | 0.03            |
| 1500              | 0.05            | 0.04 | 0.03 | 0.13                   | 0.57                                   | 0.57            | 0.21            | 0.05            |
| 1600              | 0.05            | 0.05 | 0.03 | 0.15                   | 0.65                                   | 0.63            | 0.26            | 0.05            |
| 1700              | 0.05            | 0.05 | 0.04 | 0.18                   | 0.72                                   | 0.71            | 0.30            | 0.06            |
| 1800              | 0.06            | 0.05 | 0.04 | 0.20                   | 0.81                                   | 0.80            | 0.30            | 0.06            |
| 1900              | 0.06            | 0.06 | 0.04 | 0.21                   | 0.90                                   | 0.91            | 0.40            | 0.06            |
| 2000              | 0.07            | 0.06 | 0.05 | 0.24                   | 1.01                                   | 0.99            | 0.41            | 0.06            |

**ELECTRICAL/ELECTRIC HEAT DATA**

**3 TON**

|  |                   | Model No. | LRP14HP36    |          |
|--|-------------------|-----------|--------------|----------|
| <sup>1</sup> Voltage - 60Hz                        |                   |           | 208/230V-3ph | 460V-3ph |
| Compressor   | Rated Load Amps   |           | 9            | 5.8      |
|  | Locked Rotor Amps |           | 71           | 38       |
| Outdoor Fan Motor                                  | Full Load Amps    |           | 1.8          | 1        |
| Indoor Blower Motor                                | Horsepower        |           | 0.75         | 0.75     |
|  | Type              |           | ECM          | ECM      |
|  | Full Load Amps    |           | 6            | 3.2      |
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Unit Only         |           | 25           | 15       |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Unit Only         |           | 19.0         | 11.4     |

**ELECTRIC HEAT DATA (Electric Heat Only)**

| Electric Heat Voltage                              |               |       |  | 208V | 240V | 480V |
|--|---------------|-------|--|------|------|------|
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Electric Heat | 5 kW  |  | 25   | 25   | 15   |
|  |               | 10 kW |  | 35   | 40   | 20   |
|  |               | 15 kW |  | 50   | 60   | 30   |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Electric Heat | 5 kW  |  | 20.5 | 22.5 | 11.5 |
|  |               | 10 kW |  | 33.6 | 37.6 | 19.0 |
|  |               | 15 kW |  | 46.6 | 52.6 | 26.6 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

NOTE - Field wiring for electric heat is separate from the unit power supply. A second, separate power source is required.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

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

**ELECTRICAL/ELECTRIC HEAT DATA**

**3.5 TON**

|  |                   | Model No. | LRP14HP42    |          |
|--|-------------------|-----------|--------------|----------|
| <sup>1</sup> Voltage - 60Hz                        |                   |           | 208/230V-3ph | 460V-3ph |
| Compressor   | Rated Load Amps   |           | 11.2         | 5.6      |
|  | Locked Rotor Amps |           | 84           | 44       |
| Outdoor Fan Motor                                  | Full Load Amps    |           | 1.8          | 1        |
| Indoor Blower Motor                                | Horsepower        |           | 0.75         | 0.75     |
|  | Type              |           | ECM          | ECM      |
|  | Full Load Amps    |           | 6            | 3.2      |
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Unit Only         |           | 30           | 15       |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Unit Only         |           | 21.8         | 11.2     |

**ELECTRIC HEAT DATA (Electric Heat Only)**

| Electric Heat Voltage                              |               |       |  | 208V | 240V | 480V |
|--|---------------|-------|--|------|------|------|
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Electric Heat | 5 kW  |  | 25   | 25   | 15   |
|  |               | 10 kW |  | 35   | 40   | 20   |
|  |               | 15 kW |  | 50   | 60   | 30   |
|  |               | 20 kW |  | 70   | 80   | 40   |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Electric Heat | 5 kW  |  | 20.5 | 22.5 | 11.5 |
|  |               | 10 kW |  | 33.6 | 37.6 | 19.0 |
|  |               | 15 kW |  | 46.6 | 52.6 | 26.6 |
|  |               | 20 kW |  | 69.2 | 78.6 | 39.6 |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

NOTE - Field wiring for electric heat is separate from the unit power supply. A second, separate power source is required.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.

<sup>2</sup> HACR type breaker or fuse.

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

**ELECTRICAL/ELECTRIC HEAT DATA****4 TON****Model No.****LRP14HP48**

| <sup>1</sup> Voltage - 60Hz                        |                   | 208/230V-3ph | 460V-3ph |
|--|-------------------|--------------|----------|
| Compressor   | Rated Load Amps   | 13.8         | 6.1      |
|  | Locked Rotor Amps | 83           | 43       |
| Outdoor Fan Motor                                  | Full Load Amps    | 1.8          | 1        |
| Indoor Blower Motor                                | Horsepower        | 1.0          | 1.0      |
|  | Type              | ECM          | ECM      |
|  | Full Load Amps    | 7.6          | 4        |
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Unit Only         | 40           | 15       |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Unit Only         | 26.6         | 12.6     |

**ELECTRIC HEAT DATA (Electric Heat Only)**

| <b>Electric Heat Voltage</b>                       |               |       |  | <b>208V</b> | <b>240V</b> | <b>480V</b> |
|--|---------------|-------|--|-------------|-------------|-------------|
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Electric Heat | 5 kW  |  | 25          | 25          | 15          |
|  |               | 10 kW |  | 35          | 40          | 20          |
|  |               | 15 kW |  | 50          | 60          | 30          |
|  |               | 20 kW |  | 70          | 80          | 40          |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Electric Heat | 5 kW  |  | 20.5        | 22.5        | 11.5        |
|  |               | 10 kW |  | 33.6        | 37.6        | 19.0        |
|  |               | 15 kW |  | 46.6        | 52.6        | 26.6        |
|  |               | 20 kW |  | 69.2        | 78.6        | 39.6        |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

NOTE - Field wiring for electric heat is separate from the unit power supply. A second, separate power source is required.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.**ELECTRICAL/ELECTRIC HEAT DATA****5 TON****Model No.****LRP14HP60**

| <sup>1</sup> Voltage - 60Hz                        |                   | 208/230V-3ph | 460V-3ph |
|--|-------------------|--------------|----------|
| Compressor   | Rated Load Amps   | 13.2         | 6.3      |
|  | Locked Rotor Amps | 93           | 60       |
| Outdoor Fan Motor                                  | Full Load Amps    | 1.8          | 1        |
| Indoor Blower Motor                                | Horsepower        | 1.0          | 1.0      |
|  | Type              | ECM          | ECM      |
|  | Full Load Amps    | 7.6          | 4        |
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Unit Only         | 35           | 15       |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Unit Only         | 25.9         | 12.9     |

**ELECTRIC HEAT DATA (Electric Heat Only)**

| <b>Electric Heat Voltage</b>                       |               |       |  | <b>208V</b> | <b>240V</b> | <b>480V</b> |
|--|---------------|-------|--|-------------|-------------|-------------|
| <sup>2</sup> Maximum Overcurrent Protection (MOCP) | Electric Heat | 5 kW  |  | 25          | 25          | 15          |
|  |               | 10 kW |  | 35          | 40          | 20          |
|  |               | 15 kW |  | 50          | 60          | 30          |
|  |               | 20 kW |  | 70          | 80          | 40          |
|  |               | 23 kW |  | 90          | 100         | 50          |
| <sup>3</sup> Minimum Circuit Ampacity (MCA)        | Electric Heat | 5 kW  |  | 20.5        | 22.5        | 11.5        |
|  |               | 10 kW |  | 33.6        | 37.6        | 19.0        |
|  |               | 15 kW |  | 46.6        | 52.6        | 26.6        |
|  |               | 20 kW |  | 69.2        | 78.6        | 39.6        |
|  |               | 23 kW |  | 80.4        | 91.3        | 45.9        |

NOTE - All units have a minimum Short Circuit Current Rating (SCCR) of 5000 amps.

NOTE - Field wiring for electric heat is separate from the unit power supply. A second, separate power source is required.

<sup>1</sup> Extremes of operating range are plus and minus 10% of line voltage.<sup>2</sup> HACR type breaker or fuse.<sup>3</sup> Refer to National or Canadian Electrical Code manual to determine wire, fuse and disconnect size requirements.



## ELECTRIC HEAT CAPACITIES

| Input Voltage | 5 kW         |          |             | 10 kW        |          |             | 15 kW        |          |             | 20 kW        |          |             | 23 kW        |          |             |
|---------------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|--------------|----------|-------------|
|               | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output | No of Stages | kW input | Btuh Output |
| 208           | 1            | 3.8      | 12,800      | 1            | 7.5      | 25,600      | 1            | 11.2     | 38,400      | 1            | 17.3     | 59,100      | 1            | 19.9     | 68,000      |
| 220           | 1            | 4.2      | 14,300      | 1            | 8.4      | 28,700      | 1            | 12.6     | 43,000      | 1            | 18.3     | 62,600      | 1            | 21.1     | 71,900      |
| 230           | 1            | 4.6      | 15,700      | 1            | 9.2      | 31,400      | 1            | 13.8     | 47,000      | 1            | 19.2     | 65,400      | 1            | 22.0     | 75,200      |
| 240           | 1            | 5.0      | 17,100      | 1            | 10.0     | 34,200      | 1            | 15.0     | 51,200      | 1            | 20.0     | 68,200      | 1            | 23.0     | 78,500      |
| 440           | 1            | 4.2      | 14,300      | 1            | 8.4      | 28,700      | 1            | 12.6     | 43,000      | 1            | 18.3     | 62,600      | 1            | 21.1     | 71,900      |
| 460           | 1            | 4.6      | 15,700      | 1            | 9.2      | 31,400      | 1            | 13.8     | 47,000      | 1            | 19.2     | 65,400      | 1            | 22.0     | 75,200      |
| 480           | 1            | 5.0      | 17,100      | 1            | 10.0     | 34,200      | 1            | 15.0     | 51,200      | 1            | 20.0     | 68,200      | 1            | 23.0     | 78,500      |

## INSTALLATION CLEARANCES

|  | in. | mm   |
|--|-----|------|
| Front  | 24  | 610  |
| Right Side (blower and evaporator coil access) | 24  | 610  |
| Left Side (compressor access)                  | 24  | 610  |
| Back   | 0   | 0    |
| Back (with Optional Economizer)                | 40  | 1016 |
| Top  | 48  | 1219 |

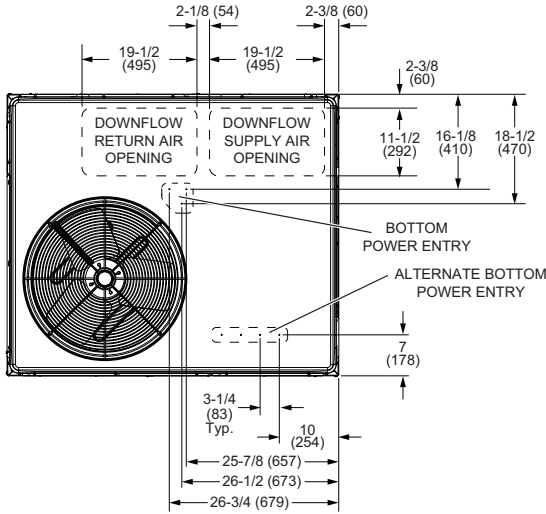
| WEIGHT DATA  |      |     |          | UNIT |
|--------------|------|-----|----------|------|
| Model Number | Net  |     | Shipping |      |
|              | lbs. | kg  | lbs.     | kg   |
| LRP14HP36    | 505  | 229 | 515      | 234  |
| LRP14HP42    | 517  | 235 | 527      | 239  |
| LRP14HP48    | 526  | 239 | 536      | 243  |
| LRP14HP60    | 536  | 243 | 546      | 248  |

| WEIGHT DATA   |  | OPTIONS / ACCESSORIES |    |
|---|--|-----------------------|----|
|   |  | Shipping              |    |
|   |  | lbs.                  | kg |
| <b>CABINET</b>  |  |                       |    |
| Tool-Less Filter Access Kit                                     |  | 20                    | 9  |
| <b>ECONOMIZER / OUTDOOR AIR</b>                                 |  |                       |    |
| <b>Economizer</b>   |  |                       |    |
| Economizer, Includes Barometric Relief Dampers and Exhaust Hood |  | 95                    | 43 |
| <b>Outdoor Air Dampers</b>                                      |  |                       |    |
| Motorized   |  | 35                    | 16 |
| Manual  |  | 28                    | 13 |
| <b>ELECTRIC HEAT</b>  |  |                       |    |
| 5 kW  |  | 6                     | 3  |
| 7.5 kW  |  | 7                     | 3  |
| 10 kW   |  | 8                     | 4  |
| 15 kW   |  | 8                     | 4  |
| 20 kW   |  | 8                     | 4  |
| 23 kW   |  | 9                     | 4  |
| <b>ROOF CURBS</b>   |  |                       |    |
| <b>Clip Curbs</b>   |  |                       |    |
| 8 in. height  |  | 63                    | 29 |
| 14 in. height   |  | 77                    | 35 |
| 18 in. height   |  | 99                    | 45 |
| 24 in. height   |  | 132                   | 60 |
| <b>Adjustable Pitch Curb, Downflow</b>                          |  |                       |    |
| 14 in. height   |  | 95                    | 43 |

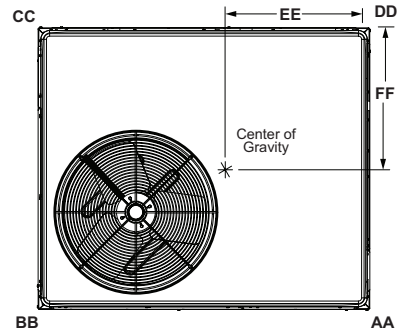
# DIMENSIONS

# UNIT

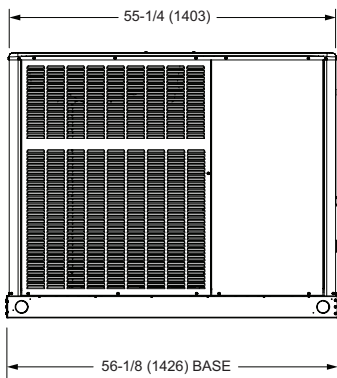
| Model Number | CORNER WEIGHTS |    |      |    |      |    |      |    | CENTER OF GRAVITY |     |       |     |
|--------------|----------------|----|------|----|------|----|------|----|-------------------|-----|-------|-----|
|              | AA             |    | BB   |    | CC   |    | DD   |    | EE                |     | FF    |     |
|              | lbs.           | kg | lbs. | kg | lbs. | kg | lbs. | kg | in.               | mm  | in.   | mm  |
| LRP14HP36    | 116            | 53 | 126  | 57 | 137  | 62 | 126  | 57 | 25.25             | 641 | 21.50 | 546 |
| LRP14HP42    | 118            | 54 | 129  | 59 | 140  | 64 | 129  | 59 | 25.25             | 641 | 21.50 | 546 |
| LRP14HP48    | 120            | 54 | 132  | 60 | 143  | 65 | 131  | 59 | 25.25             | 641 | 21.50 | 546 |
| LRP14HP60    | 123            | 56 | 134  | 61 | 145  | 66 | 134  | 61 | 25.25             | 641 | 21.50 | 546 |



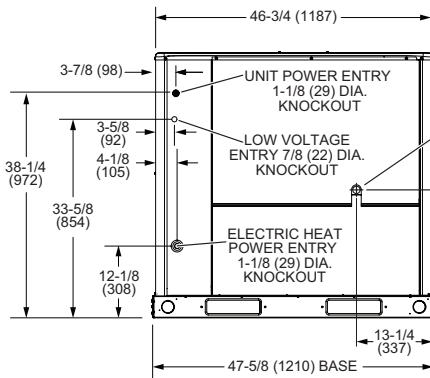
TOP VIEW (Base)



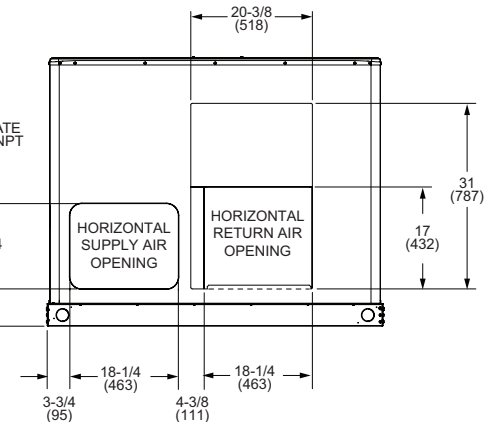
TOP VIEW  
(Corner Weight and Center of Gravity)



FRONT VIEW

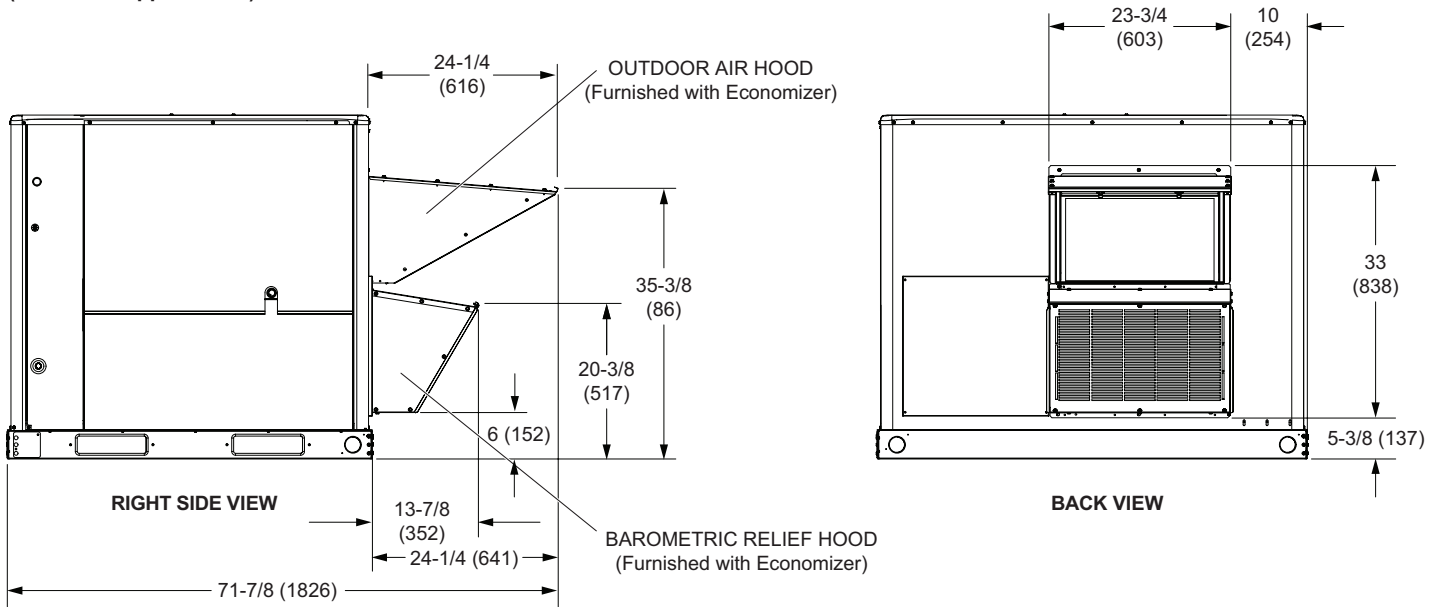


RIGHT SIDE VIEW

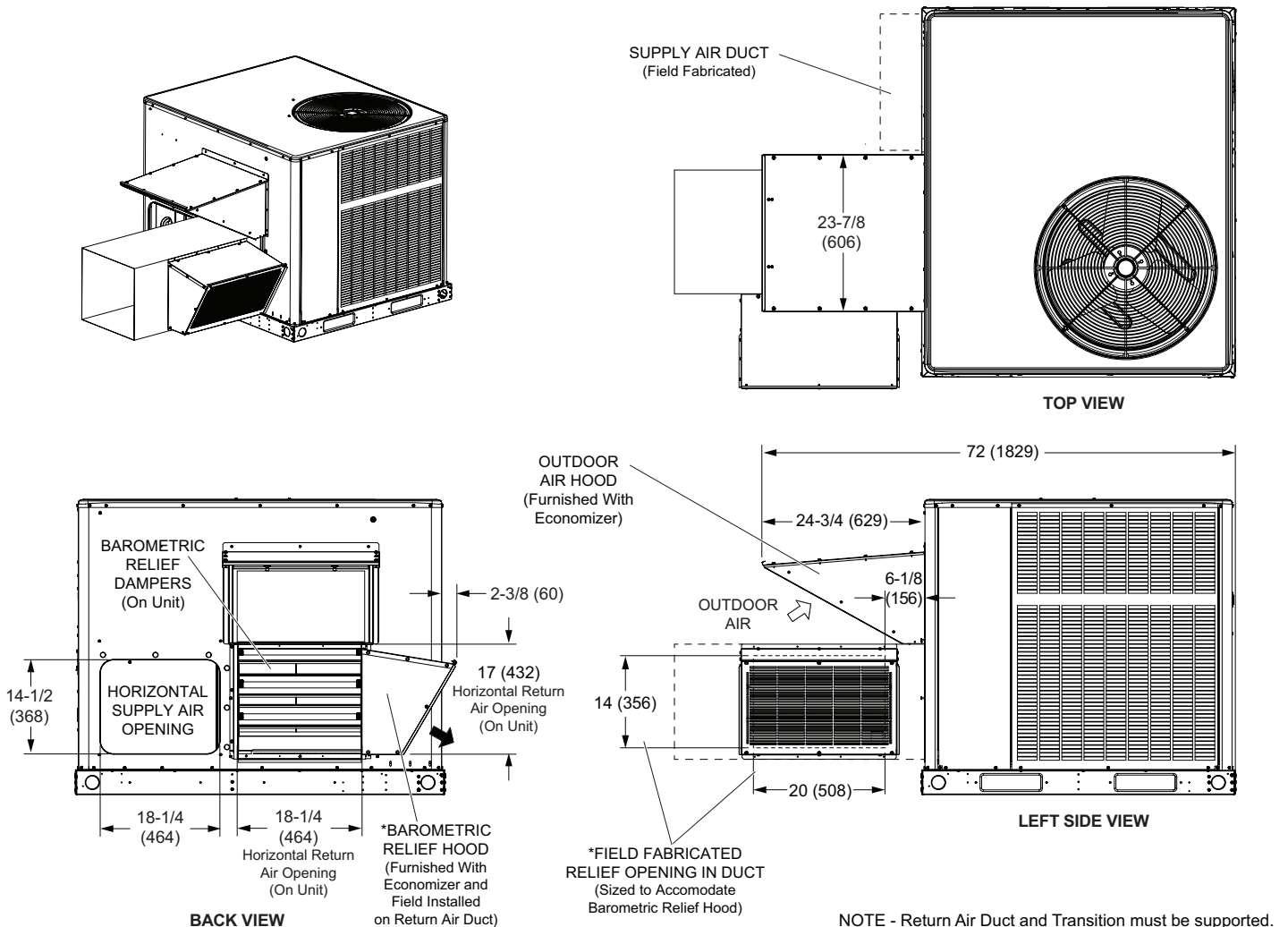


BACK VIEW

**OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER WITH BAROMETRIC RELIEF DAMPERS  
(Downflow Applications)**



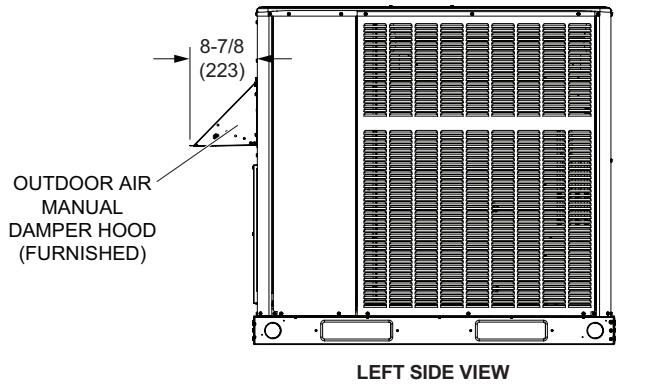
**OUTDOOR AIR HOOD DETAIL FOR OPTIONAL ECONOMIZER WITH BAROMETRIC RELIEF DAMPERS  
(Horizontal Applications)**



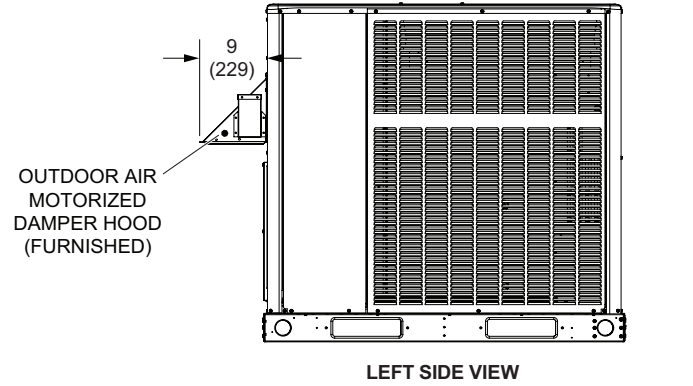
NOTE - Return Air Duct and Transition must be supported.

**OUTDOOR AIR HOOD DETAIL FOR OPTIONAL OUTDOOR AIR DAMPERS**

**MANUAL OUTDOOR AIR DAMPERS**

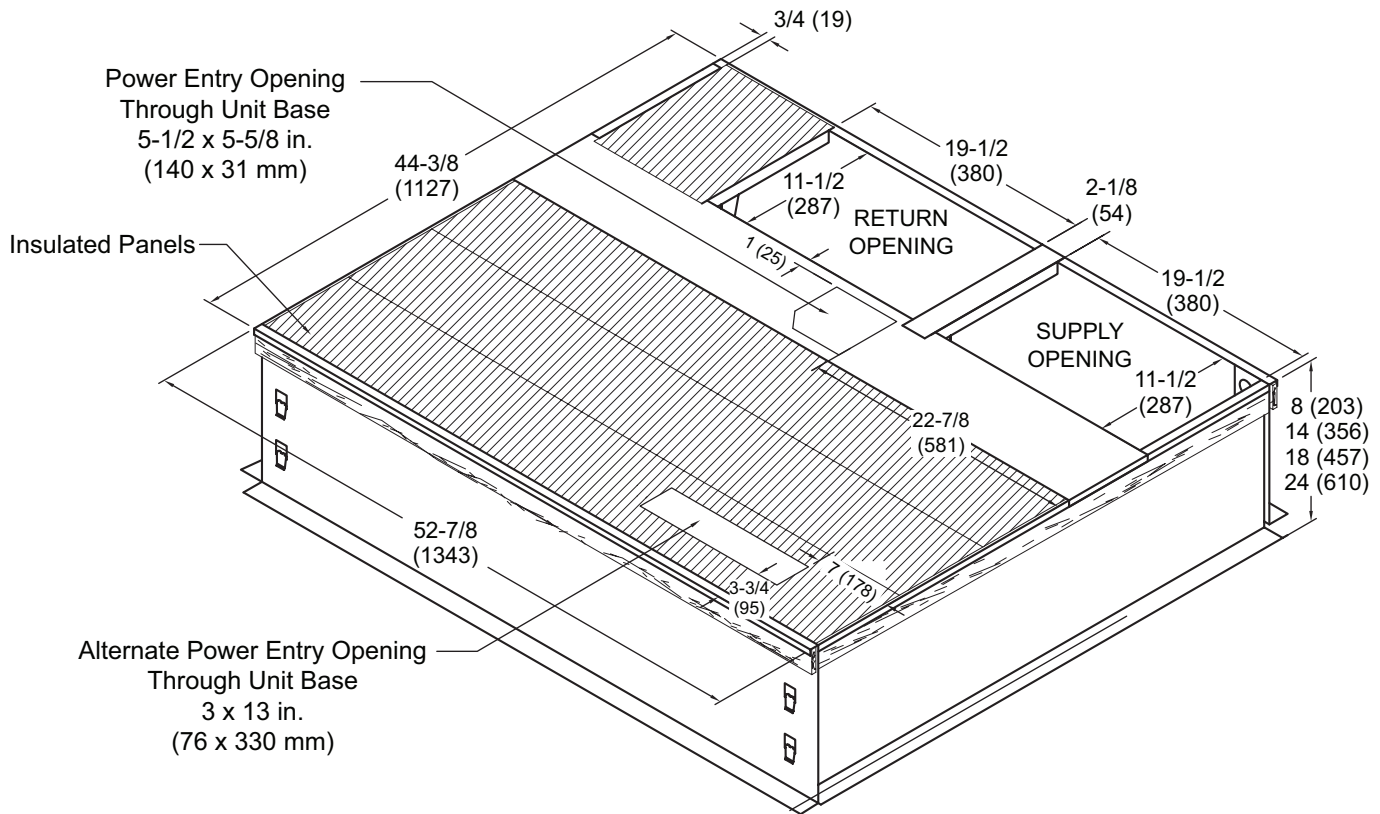


**MOTORIZED OUTDOOR AIR DAMPERS**



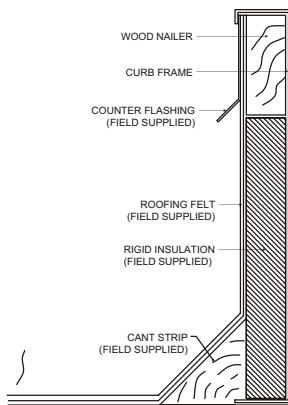
NOTE - Outdoor Air Hood and Panel replaces existing panel on unit.

**CLIP CURB**

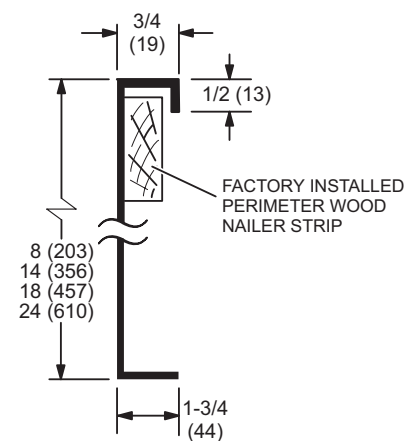


NOTE - Roof deck may be omitted within confines of curb.

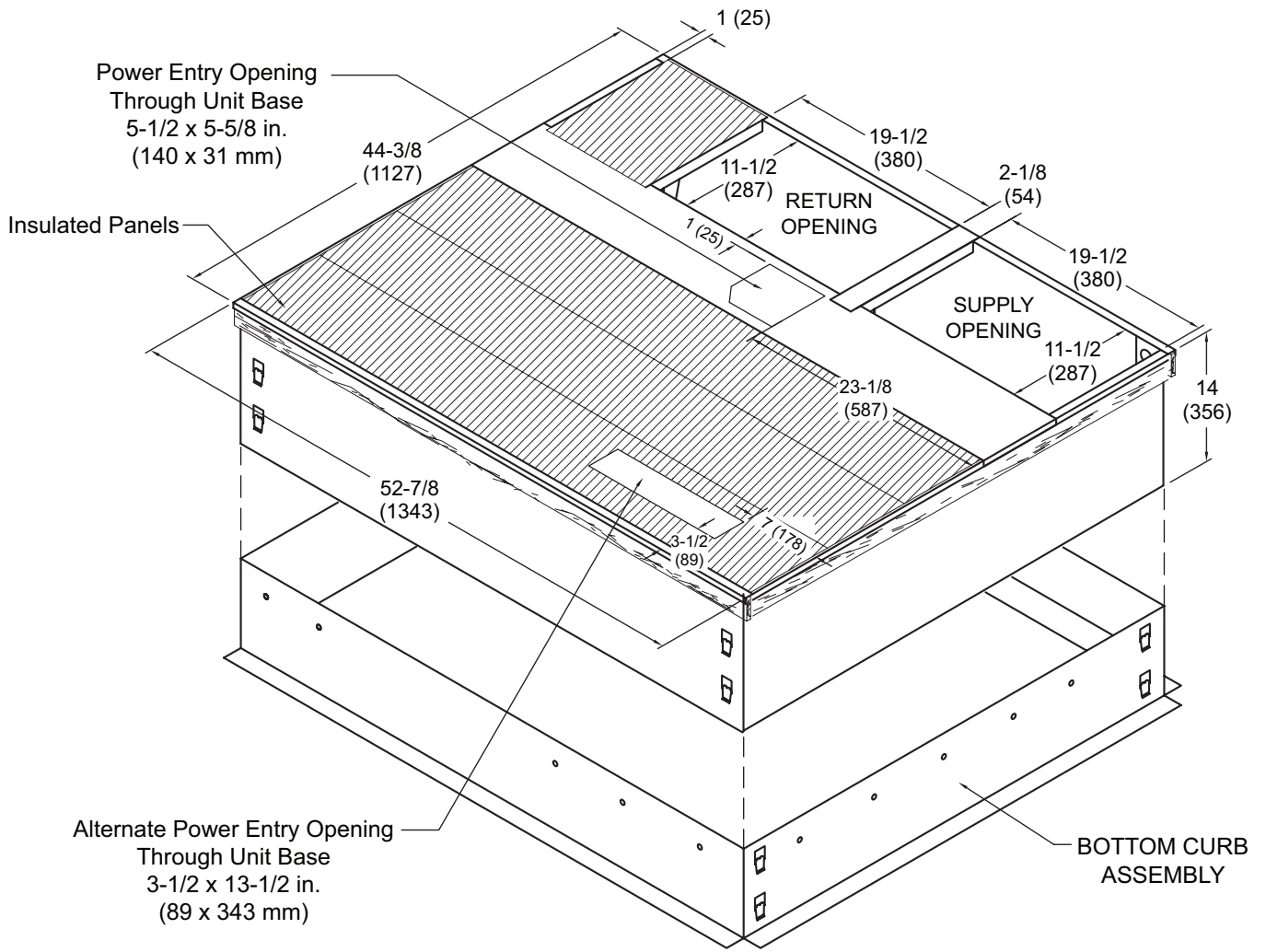
**TYPICAL FLASHING DETAIL FOR ROOF CURB**



**DETAIL ROOF CURB**

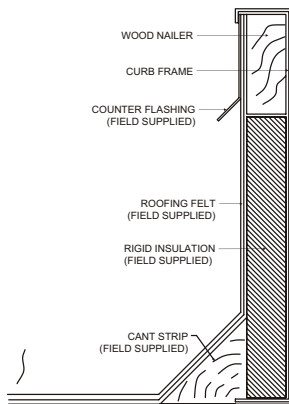


**ADJUSTABLE PITCH ROOF CURB**

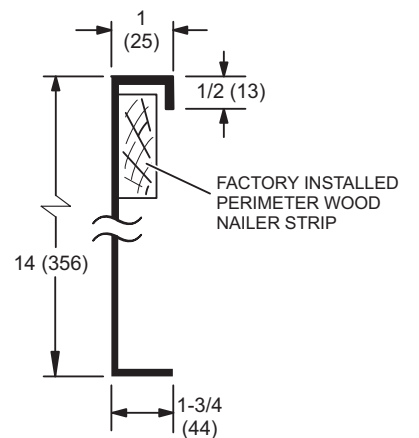


NOTE - Roof deck may be omitted within confines of curb.

**TYPICAL FLASHING DETAIL FOR ROOF CURB**



**DETAIL ROOF CURB**



## OPTIONAL CONVENTIONAL TEMPERATURE CONTROL SYSTEMS

### CS7500 Commercial 7-Day Programmable Thermostat



- Premium Universal Thermostat
- Full Color Touchscreen Interface
- Up To 4 Heat / 3 Cool
- Built-In Sensors For Temperature and Humidity
- Remote Sensors Options For Temperature, Discharge Air, Outdoor Air
- 5-2 or 7-Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-Changeover
- FDD, ASHRAE, IECC Compliant

### CS3000 Commercial 5-2 Day Programmable Thermostat



- Conventional Multi-Stage Thermostat
- Intuitive Display
- Push-Button Operation
- Up To 2 Heat / 2 Cool
- Built-In Temperature Sensor
- Remote Temperature Sensing
- Up to 5-2 Day Scheduling
- Smooth Setback Recovery
- Heat/Cool Auto-changeover

| Description  | Catalog No.  |
|--|--|
| <b>CS7500 Commercial 7-Day Programmable Thermostat</b> |  |
| CS7500 7-Day Thermostat                                | <b>24K41</b>   |
| Sensors/   | <sup>1</sup> Remote non-adjustable wall-mount 20k <b>47W36</b>   |
| Accessories  | <sup>1</sup> Remote non-adjustable wall-mount 10k <b>47W37</b>   |
|  | Remote non-adjustable discharge air (duct mount) <b>19L22</b>    |
|  | Outdoor temperature sensor <b>X2658</b>                          |
| <b>CS3000 5-2 Day Programmable Thermostat</b>          |  |
| CS3000 5-2 Day Thermostat                              | <b>11Y05</b>   |
| Sensor/  | Remote non-adjustable wall mount 10k averaging <b>47W37</b>      |
| Accessories  | Thermostat wall mounting plate <b>X2659</b>                      |
| <b>Universal Thermostat Guard with Lock (clear)</b>    |  |
|  | Inside Dimensions (H x W x D) 5-7/8 x 8-3/8 x 3 in. <b>39P21</b> |

<sup>1</sup> 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





## REVISIONS

| Sections  | Description of Change                    |
|---|--|
| Installation Clearances                           | Added clearance for optional Economizer. |
| Optional Conventional Temperature Control Systems | Updated.                                 |



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