PACKAGED HEAT PUMP

LRP14HP

Single-Phase - R-410A - 60Hz

RESIDENTIAL
PRODUCT SPECIFICATIONS

Bulletin No. 210908
September 2021
Supersedes June 2021

SEER - 14.00
HSPF - 8.00
2 to 5 Tons
Cooling Capacity - 22,600 to 57,000 Btuh
Heating Capacity - 22,000 to 56,000 Btuh
Optional Electric Heat - 5 to 20 kW

MODEL NUMBER IDENTIFICATION

L RP 14 HP 36 E P -2 -A

- **Brand**
  L = Lennox
- **Product Type**
  RP = Residential Packaged Unit
- **Nominal SEER**
  14 = 14 SEER
- **Unit Type**
  HP = Packaged Heat Pump
- **Nominal Cooling Capacity**
  24 = 2 tons
  30 = 2.5 tons
  36 = 3 tons
  42 = 3.5 tons
  48 = 4 tons
  60 = 5 tons
- **Blower**
  E = High Efficiency Constant Torque Blower Motor
- **Voltage**
  P = 208/230V-1phase-60Hz
- **Major Revision Sequence**
  2 = 2nd Generation
- **Minor Revision Sequence**
  A = 1st Generation

CONTENTS

APPROVALS AND WARRANTY

APPROVALS

- AHRI Standard 210/240 Certified
- Design Certified by ETL Intertek
- Cooling system rated according to DOE test procedures
- Heating ratings are Certified by AHRI according to U.S. Department of Energy (DOE) test procedures and Federal Trade Commission (FTC) labeling regulations
- Units are ETL Certified for the U.S. and Canada
- Unit and components are UL 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
- Test operated at the factory before shipment ensuring dependable operation at start-up

WARRANTY

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

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

FEATURES

APPLICATIONS

- Designed for outdoor installations at ground level or rooftop for residential applications

REFRIGERATION SYSTEM

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

Indoor and Outdoor Coils
- Copper tube with aluminum fin coils

Anti-Microbial Evaporator Coil Drain Pan
- Anti-Microbial additive resists growth of mold and mildew on drain pan which improves indoor air quality and reduces drain line blockage
- Drain pan overflow switch monitors condensate level in drain pan and shuts down unit if drain becomes clogged
- Fully insulated to reduce condensation

Outdoor Coil Fan
- 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

COMPRESSOR

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

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

Optional Accessories

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

Compressor Hard Start Kit
- A PSC compressor motor does not normally need a potential relay and start capacitor
- In conditions such as low voltage, kit may be required to increase the compressor starting torque

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

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 - A crankcase heater must be installed on the compressor.

FEATURES

CABINET

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

Airflow Choice
- Units are shipped with all air openings sealed
  - For downflow (vertical) applications, remove the downflow duct covers
  - For horizontal applications, remove the horizontal duct covers

Electrical Inlets and Service Valves
- Standard field wiring electrical inlets are located in one central area of the cabinet
- See dimension drawing
- Gauge ports are located inside the cabinet

Optional Accessories

Base Rail Opening Closure Kit
- Kit consists of panels and hardware to cover base rail rigging holes and forklift slot openings

Bottom Power Entry Kit
- Allows field wiring through the unit base pand

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 Roof Curb (Full Perimeter) Standard Curb
- 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

Strapping Kit - Seismic
- Heavy-gauge galvanized steel

AIR FILTER (required)

Optional Accessories

Internal Filter Rack Kits
- Available for 1 in. thick filters
- Filter rails mount internal to unit

NOTE - Filters must be field provided.

SUPPLY AIR 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

FEATURES

ELECTRIC HEAT (5-20 KW)

Optional Accessories

- 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

Single Point Power Supply Kits

- Control Box used with optional electric heat
- For single power supply connected to multi-circuit electric heat

NOTE - Side power entry only.

CONTROLS

Defrost Control

- Furnished as standard equipment
- Enables a defrost cycle for every 30, 60 or 90 minutes (adjustable) of compressor "on" time at outdoor coil temperatures below freezing
- Units are quiet-shift enabled
- Compressor is de-energized entering and exiting the defrost cycle, reducing system sounds
- Sensor mounted on liquid line determines when defrost cycle is required and also when to terminate cycle
- Anti-short cycle, timed-off control incorporated into the board

24 Volt Transformer

- 40VA transformer furnished and factory installed in control area

Optional Accessories

iComfort® M30 Smart Wi-Fi Thermostat

- Wi-Fi-enabled, electronic 7-day, universal, multi-stage, programmable, touchscreen thermostat
- 4 Heat/2 Cool
- Auto-changeover
- Dual-fuel control with optional outdoor sensor
- Controls dehumidification during cooling mode and humidification during heating mode

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

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

Remote Outdoor Temperature Sensor

- Used with the iComfort® M30 Smart Wi-Fi Thermostat
- Outdoor sensor allows thermostat to display outdoor temperature
- Automatically detected when connected to thermostat

NOTE - Remote Outdoor Temperature Sensor is recommended for heat pump balance point control to lock out some of the electric heating elements where two-stage control is applicable.

Thermostat

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

SPECIFICATIONS

General Data		Model No.	LRP14HP24	LRP14HP30	LRP14HP36	LRP14HP42	LRP14HP48	LRP14HP60
		Nominal Tonnage	2	2.5	3	3.5	4	5
Cooling / Heating Performance	Cooling	Total capacity - Btuh	22,600	28,600	34,000	40,000	46,000	57,000
		Total unit watts	2055	2600	3090	3635	4180	5180
		[1] SEER (Btuh/Watt)	14.00	14.00	14.00	14.00	14.00	14.00
		EER (Btuh/Watt)	11.00	11.00	11.00	11.00	11.00	11.00
	High Temp. Heat	Total capacity - Btuh	22,000	27,000	32,400	39,000	45,000	56,000
		Total unit watts	1700	2140	2645	3175	3565	4440
		COP	3.80	3.70	3.70	3.60	3.70	3.70
		HSPF Region IV / Region V	8.00 / 6.95	8.00 / 6.95	8.00 / 6.95	8.00 / 6.95	8.00 / 6.95	8.00 / 6.95
	Low Temp. Heat	Total capacity - Btuh	12,300	15,900	20,000	23,600	27,000	33,600
		Total unit watts	1570	2025	2550	3010	3445	4105
		COP	2.30	2.30	2.30	2.30	2.30	2.40
		[2] Sound Rating Number (dBA)	78	78	76	78	79	78
Refrigerant		Type	R-410A	R-410A	R-410A	R-410A	R-410A	R-410A
		Charge	5 lbs. 11 oz.	6 lbs. 0 oz.	5 lbs. 12 oz.	10 lbs. 5 oz.	10 lbs. 3 oz.	10 lbs. 1 oz.
Condensate drain size (fpt) - in.			3/4	3/4	3/4	3/4	3/4	3/4
Outdoor Coil		Net Face Area - sq. ft.	16.4	16.4	16.4	16.6	16.6	18.6
		Tube diameter - in.	5/16	5/16	5/16	5/16	5/16	5/16
		Number of Rows	1	1	1	2	2	2
		Fins per in.	22	22	22	22	22	22
Outdoor Coil Fan		Motor horsepower	1/6	1/6	1/6	1/4	1/4	1/3
		Diameter - in.	22	22	22	24	24	24
		Number of blades	4	4	4	3	3	3
Indoor Coil		Net Face Area - sq. ft.	4.4	4.4	4.4	6.8	6.8	6.8
		Tube Diameter - in.	5/16	3/8	3/8	3/8	3/8	3/8
		Number of Rows	3	3	3	3	3	3
		Fins per Inch	15	15	15	15	15	15
Indoor Blower	Blower wheel size dia. x width - in.		10 x 6	10 x 6	10 x 8	10 x 10	10 x 10	12 x 10
		Motor horsepower	1/3	1/2	1/2	3/4	3/4	1
Net weight of basic unit - lbs.			383	392	402	505	510	532
Shipping weight of basic unit (1 Pkg.) - lbs.			388	397	407	510	515	537
Electrical characteristics (60 Hz)			208/230V-1ph-60Hz					

[1] 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.
[2] Sound Rating Number rated in accordance with test conditions included in AHRI Standard 270.

OPTIONAL ACCESSORIES - ORDER SEPARATELY

Item		Catalog No.	Unit Model No. 24	30	36	42	48	60
CONTROLS								
iComfort® M30 Smart Wi-Fi Thermostat		**15Z69**	•	•	•	•	•	•
[1] Remote Outdoor Temperature Sensor		**X2658**	•	•	•	•	•	•
COOLING SYSTEM								
Compressor Crankcase Heater		**11X27**	•	•	•	•	•	•
Compressor Hard Start Kit		**10J42**	•	•	•	•	•	
		88M91						•
Compressor Timed-Off Control		**47J28**	•	•	•	•	•	•
Low Ambient Kit (40°F)		**21D20**	•	•	•	•	•	•
CABINET								
Base Rail Opening Closure Kit		**21J84**	•	•	•	•	•	•
Duct Adapter Kit - Downflow		**20X82**	•	•	•			
		21D26				•	•	•
Duct Adapter Kit - Horizontal		**21J92**	•	•	•			
		21D24				•	•	•
ELECTRICAL								
Bottom Power Entry Kit		**21J78**	•	•	•	•	•	•
ELECTRIC HEAT								
Electric Heat Size - 208/240V-1ph	5 kW	**10W47**	•	•	•	•	•	•
	7.5 kW	**10W48**	•	•	•	•	•	•
	10 kW	**10W49**	•	•	•	•	•	•
	15 kW	**10W50**			•	•	•	•
	20 kW	**10W51**				•	•	•
SINGLE POINT POWER SUPPLY KITS (FOR ELECTRIC HEAT) - SIDE POWER ENTRY ONLY								
Single Point Power Kits	For 5 kW Electric Heat	**13W88**	•	•	•	•	•	•
	For 7.5 kW Electric Heat	**13W89**	•	•	•	•	•	•
	For 10 kW Electric Heat	**13W90**	•	•	•	•	•	•
	For 15-20 kW Electric Heat	**13W91**			•	•	•	•
INDOOR AIR QUALITY								
[2] Internal Filter Rack Kit (filters not furnished)	(1) 20 x 20 + (1) 14 x 20	**11U73**	•	•	•			
	(2) 20 x 20	**11U74**				•	•	•
ROOF CURBS								
Clip Curbs								
	8 in height	**21J13**	•	•	•			
		21J17				•	•	•
	14 in height	**21J14**	•	•	•			
		21J19				•	•	•
	18 in height	**21J15**	•	•	•			
		21J20				•	•	•
	24 in height	**21J16**	•	•	•			
		21J25				•	•	•
Adjustable Pitch Roof Curb								
		22V54	•	•	•			
		22V55				•	•	•
Strapping Kits for Roof Curbs								
Strapping Kit - Hurricane		**21J74**	•	•	•	•	•	•
Strapping Kit - Seismic		**21J75**	•	•	•	•	•	•

[1] Allows the thermostat to display outdoor temperature.

[2] Filters are not furnished and must be field provided.

INSTALLATION CLEARANCES

	in.	mm
Front (heat exchanger access)	24	610
Right Side (blower access)	24	610
Left Side (evaporator coil access)	24	610
Back	0	0
Top	48	1219

ELECTRIC HEAT CAPACITIES

Input Voltage	5 kW			7.5 kW			10 kW			15 kW			20 kW		
	No of Steps	kW Input	KBtuh Output	No of Steps	kW Input	KBtuh Output	No of Steps	kW Input	KBtuh Output	No of Steps	kW Input	KBtuh Output	No of Steps	kW Input	KBtuh Output
208	1	3.8	12.8	1	5.6	19.2	1	7.5	25.6	1	11.2	38.2	1	15	51.2
220	1	4.2	14.3	1	6.3	21.5	1	8.4	28.7	1	12.6	43	1	16.8	57.3
230	1	4.6	15.7	1	6.9	23.5	1	9.2	31.3	1	13.8	47	1	18.4	62.7
240	1	5	17.1	1	7.5	25.6	1	10	34.1	1	15	51.2	1	20	68.2

ELECTRICAL/ELECTRIC HEAT DATA

Model No.			LRP14HP24		LRP14HP30		LRP14HP36	
Line voltage data - 60 Hz - 1 phase			208/230V		208/230V		208/230V	
Compressor		Rated Load Amps	12.1		15		16.7	
		Locked Rotor Amps	59.3		72.5		83.9	
Outdoor Fan Motor		Full Load Amps	1.0		1.0		1.0	
		Locked Rotor Amps	1.9		1.9		1.9	
Indoor Blower Motor		Full Load Amps	2.8		6.1		4.1	
		Locked Rotor Amps	3.9		6.6		4.4	
[1] Maximum Overcurrent Protection (MOCP)		Voltage	208V	240V	208V	240V	208V	240V
	Unit Only	Circuit 1	25	25	35	35	35	35
	5 kW	Circuit 1	30	30	30	30	30	35
	7.5 kW	Circuit 1	40	45	40	45	40	45
	10 kW	Circuit 1	50	60	50	60	55	60
	[3] 15 kW	Circuit 1	- - -	- - -	50	60	50	60
		Circuit 2	- - -	- - -	25	30	25	30
[1] Maximum Overcurrent Protection (MOCP) with Optional Single Point Power Supply		5 kW	45	45	45	50	50	50
		7.5 kW	60	60	60	60	60	70
		10 kW	70	70	70	80	70	80
		15 kW	- - -	- - -	90	100	100	110
[2] Minimum Circuit Ampacity (MCA)	Unit Only	Circuit 1	17.4	17.4	21.9	21.9	23.6	23.4
	5 kW	Circuit 1	25.4	28.8	25.4	28.8	27.7	31.2
	7.5 kW	Circuit 1	36.7	41.9	36.7	41.9	39	44.2
	10 kW	Circuit 1	47.9	54.9	47.9	54.9	50.3	57.2
	[3] 15 kW	Circuit 1	- - -	- - -	47.9	54.9	50.2	57.2
		Circuit 2	- - -	- - -	22.6	26	22.6	26
[2] Minimum Circuit Ampacity (MCA) with Optional Single Point Power Supply		5 kW	39.1	42.4	42.3	45.7	46	49.5
		7.5 kW	50.3	55.6	53.6	58.8	57.3	62.5
		10 kW	61.6	68.6	64.8	71.8	68.6	75.5
		15 kW	- - -	- - -	87.4	97.8	91.1	101.5

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

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

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

[1] HACR type breaker or fuse.

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

[3] A separate compressor circuit is required.

ELECTRICAL/ELECTRIC HEAT DATA

Model No.			LRP14HP42		LRP14HP48		LRP14HP60	
Line voltage data - 60 Hz - 1 phase			208/230V		208/230V		208/230V	
Compressor	Rated Load Amps		16		16.9		22.2	
	Locked Rotor Amps		85		96		127.9	
Outdoor Fan Motor	Full Load Amps		1.7		1.7		1.8	
	Locked Rotor Amps		3.2		3.2		2.9	
Indoor Blower Motor	Full Load Amps		6		6		7.6	
	Locked Rotor Amps		5..4		6.8		- - -	
[1] **Maximum Overcurrent Protection (MOCP)**		**Voltage**	**208V**	**240V**	**208V**	**240V**	**208V**	**240V**
	Unit Only	Circuit 1	40	40	45	45	60	60
	5 kW	Circuit 1	35	35	35	35	35	40
	7.5 kW	Circuit 1	45	50	45	50	45	50
	10 kW	Circuit 1	55	60	55	60	60	40
		Circuit 2	- - -	- - -	- - -	- - -	- - -	30
	[3] **15 kW**	Circuit 1	55	60	55	60	60	40
		Circuit 2	25	30	25	30	25	60
	[3] **20 kW**	Circuit 1	60	60	60	60	60	70
		Circuit 2	50	60	50	60	50	60
[1] **Maximum Overcurrent Protection (MOCP) with Optional Single Point Power Supply**		**5 kW**	60	60	60	60	80	80
		7.5 kW	70	70	70	70	80	80
		10 kW	80	80	80	90	90	100
		15 kW	100	110	100	110	110	125
		20 kW	125	150	125	150	150	150
[2] **Minimum Circuit Ampacity (MCA)**	**Unit Only**	Circuit 1	27.8	27.8	28.7	28.7	37.2	37.2
	5 kW	Circuit 1	30.1	33.5	30.1	33.5	32.1	35.5
	7.5 kW	Circuit 1	61.6	66.6	61.6	66.6	43.4	48.6
	10 kW	Circuit 1	52.6	59.6	52.6	59.6	54.6	35.5
		Circuit 2	- - -	- - -	- - -	- - -	- - -	26
	[3] **15 kW**	Circuit 1	52.6	59.6	52.6	59.6	54.6	35.5
		Circuit 2	22.6	26	22.6	26	22.6	52.1
	[3] **20 kW**	Circuit 1	52.6	59.6	52.6	59.6	54.6	61.6
		Circuit 2	45.1	52.1	45.1	52.1	45.1	52.1
[2] **Minimum Circuit Ampacity (MCA) with Optional Single Point Power Supply**		**5 kW**	50.3	53.8	51.3	54.8	62.4	65.8
		7.5 kW	61.6	66.8	62.6	67.8	73.7	78.9
		10 kW	72.9	79.2	73.9	80.8	84.9	91.9
		15 kW	95.5	105.9	96.6	106.9	107.5	117.9
		20 kW	118	131.9	119	132.9	130.1	144

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

NOTE - Circuit 1 Minimum Circuit Ampacity includes the Blower Motor Full Load Amps.

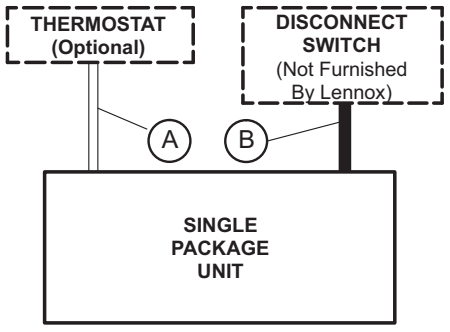
NOTE- Extremes of operating range are plus and minus 10% of line voltage.

[1] HACR type breaker or fuse.

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

[3] A separate compressor circuit is required.

FIELD WIRING



A − Five Wire Low Voltage (Electronic)
B − Two Wire Power (See Electrical Data Table)

If multiple disconnects are used on units with electric heat; there must be two−wire power provided for each disconnect

− Field Wiring Not Furnished −

COOLING RATINGS

Model	Indoor Temp DB/WB ºF	Outdoor Temperature - DB														
		65°F			82°F			95°F			105°F			115°F		
		Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW	Btuh	S/T	kW
LRP14HP24	85/72	29,500	0.63	1.40	28,100	0.65	1.67	27,000	0.67	1.89	25,400	0.72	2.06	23,800	0.78	2.23
	80/67	27,800	0.70	1.39	26,300	0.72	1.65	24,800	0.74	1.89	23,300	0.80	2.07	21,800	0.86	2.24
	75/63	26,400	0.73	1.38	24,400	0.76	1.66	22,800	0.79	1.87	21,500	0.84	2.06	20,300	0.88	2.25
	75/57	23,300	1.00	1.38	21,800	1.00	1.65	20,600	1.00	1.86	20,100	1.00	2.05	19,500	1.00	2.25
LRP14HP30	85/72	29,700	0.66	1.92	31,300	0.69	2.27	32,600	0.71	2.53	29,600	0.74	2.71	26,600	0.76	2.89
	80/67	33,500	0.71	1.89	32,700	0.74	2.18	30,100	0.76	2.48	27,900	0.80	2.69	25,600	0.84	2.90
	75/63	31,700	0.75	1.85	29,200	0.79	2.21	27,400	0.82	2.49	25,600	0.84	2.69	23,800	0.86	2.89
	75/57	29,900	1.00	1.87	27,500	1.00	2.24	25,800	1.00	2.52	24,500	1.00	2.71	23,300	1.00	2.89
LRP14HP36	85/72	44,500	0.70	2.25	40,600	0.74	2.60	37,400	0.78	2.91	35,000	0.80	3.19	32,600	0.84	3.49
	80/67	41,100	0.77	2.24	37,600	0.81	2.58	34,400	0.79	2.90	32,300	0.87	3.17	30,100	0.92	3.48
	75/63	38,500	0.79	2.22	35,100	0.83	2.57	32,200	0.87	2.87	30,200	0.90	3.15	28,100	0.93	3.46
	75/57	36,000	1.00	2.21	33,300	1.00	2.56	31,000	1.00	2.90	29,300	1.00	3.15	27,500	1.00	3.46
LRP14HP42	85/72	52,600	0.69	2.50	48,100	0.72	2.91	44,100	0.75	3.30	41,400	0.77	3.66	36,900	0.76	4.03
	80/67	48,200	0.75	2.51	44,200	0.79	2.91	40,500	0.78	3.27	37,800	0.84	3.67	35,000	0.90	4.04
	75/63	45,100	0.78	2.51	41,200	0.81	2.92	38,100	0.85	3.31	35,500	0.87	3.68	32,600	0.92	4.04
	75/57	42,000	1.00	2.52	38,800	1.00	2.92	36,100	1.00	3.32	34,200	1.00	3.68	31,700	1.00	4.05
LRP14HP48	85/72	59,300	0.69	2.76	54,400	0.72	3.29	50,200	0.75	3.72	46,800	0.78	4.05	43,300	0.82	4.42
	80/67	54,800	0.76	2.78	50,100	0.79	3.28	46,500	0.79	3.68	43,300	0.85	4.04	40,100	0.89	4.40
	75/63	51,200	0.78	2.78	46,800	0.81	3.27	43,400	0.84	3.69	40,400	0.87	4.02	37,600	0.91	4.38
	75/57	47,700	1.00	2.79	44,200	1.00	3.26	41,400	1.00	3.68	39,000	1.00	4.01	36,500	1.00	4.37
LRP14HP60	85/72	74,100	0.62	3.54	68,100	0.65	4.32	63,500	0.67	4.91	60,100	0.71	5.53	56,600	0.75	6.14
	80/67	69,200	0.69	3.51	63,000	0.71	4.24	57,400	0.73	4.85	55,000	0.78	5.48	52,400	0.82	6.10
	75/63	64,200	0.72	3.49	57,100	0.74	4.19	51,700	0.76	4.72	50,400	0.80	5.39	49,000	0.84	6.07
	75/57	57,500	1.00	3.44	51,700	1.00	4.21	47,300	1.00	4.80	46,900	1.00	5.42	46,500	1.00	6.04

HEATING RATINGS

Model	Outdoor Temp - DB/WB ºF									
	0/0		17/15		35/33		47/43		62/56	
	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW	Btuh	kW
LRP14HP24	7,000	1.55	12,300	1.60	17,900	1.68	22,000	1.71	27,800	1.75
LRP14HP30	9,900	1.92	15,900	2.00	22,200	2.10	27,300	2.16	33,000	2.23
LRP14HP36	19,000	2.10	23,800	2.40	28,900	2.72	32,300	2.93	36,600	3.20
LRP14HP42	13,600	2.88	23,500	3.03	33,900	3.19	40,900	3.29	49,600	3.42
LRP14HP48	15,300	3.18	26,300	3.35	37,900	3.56	45,700	3.66	55,400	3.82
LRP14HP60	20,100	3.89	33,700	4.10	48,100	4.51	57,000	4.78	67,400	4.88

BLOWER DATA

Model No.	Blower Tap	Air Volume (cfm) at Various External Static Pressures - in. w.g.							
		0.1	0.2	0.3	0.4	0.5	0.6	0.7	0.8
LRP14HP24	Tap 1 (Fan Only)	680	590	550	500	450	380	- - -	- - -
	Tap 2 (Low Cooling)	890	830	800	760	710	680	640	600
	Tap 3 (High Cooling)	1000	960	930	880	840	810	770	730
	[1] Tap 4 (Low Electric Heat)	890	830	800	760	- - -	- - -	- - -	- - -
	[1] Tap 5 (High Electric Heat)	- - -	- - -	- - -	- - -	840	810	770	730
LRP14HP30	Tap 1 (Fan Only)	680	640	600	570	530	490	- - -	- - -
	Tap 2 (Low Cooling)	1100	1070	1050	1020	990	960	930	900
	Tap 3 (High Cooling)	1180	1160	1130	1090	1070	1040	1010	960
	[1] Tap 4 (Low Electric Heat)	1100	1070	1050	1020	- - -	- - -	- - -	- - -
	[1] Tap 5 (High Electric Heat)	- - -	- - -	- - -	- - -	1070	1040	1010	960
LRP14HP36	Tap 1 (Fan Only)	860	810	760	710	660	590	550	490
	Tap 2 (Low Cooling)	1300	1265	1235	1200	1165	1125	1015	1040
	Tap 3 (High Cooling)	1475	1450	1420	1375	1345	1310	1275	1190
	[1] Tap 4 (Low Electric Heat)	1300	1265	1235	1200	- - -	- - -	- - -	- - -
	[1] Tap 5 (High Electric Heat)		- - -	- - -	- - -	1345	1310	1275	1190
LRP14HP42	Tap 1 (Fan Only)	800	720	640	550	475	390	310	- - -
	Tap 2 (Low Cooling)	1470	1410	1360	1300	1260	1210	1155	1095
	Tap 3 (High Cooling)	1700	1650	1610	1575	1560	1480	1480	1390
	[1] Tap 4 (Low Electric Heat)	1470	1410	1360	1300	- - -	- - -	- - -	- - -
	[1] Tap 5 (High Electric Heat)	- - -	- - -	- - -	- - -	1560	1480	1480	1390
LRP14HP48	Tap 1 (Fan Only)	1165	1075	1000	930	850	790	760	670
	Tap 2 (Low Cooling)	1675	1630	1600	1540	1490	1440	1390	1300
	Tap 3 (High Cooling)	1800	1770	1715	1690	1660	1610	1565	1500
	[1] Tap 4 (Low Electric Heat)	1675	1630	1600	1540	- - -	- - -	- - -	- - -
	[1] Tap 5 (High Electric Heat)	- - -	- - -	- - -	- - -	1660	1610	1565	1500
LRP14HP60	Tap 1 (Fan Only)	1400	1320	1260	1200	1120	1060	980	900
	Tap 2 (Low Cooling)	1920	1870	1820	1770	1720	1670	1450	1360
	Tap 3 (High Cooling)	2240	2200	2140	2100	2060	2020	1980	1950
	[1] Tap 4 (Low Electric Heat)	1920	1870	1820	1770	- - -	- - -	- - -	- - -
	[1] Tap 5 (High Electric Heat)	- - -	- - -	- - -	- - -	2060	2020	1980	1950

NOTE - All air data is measured external to unit without air filters.

[1] Taps 4 and 5 are used with Optional Electric Heat. Refer to Electric Heat nameplate for proper heat tap selection.

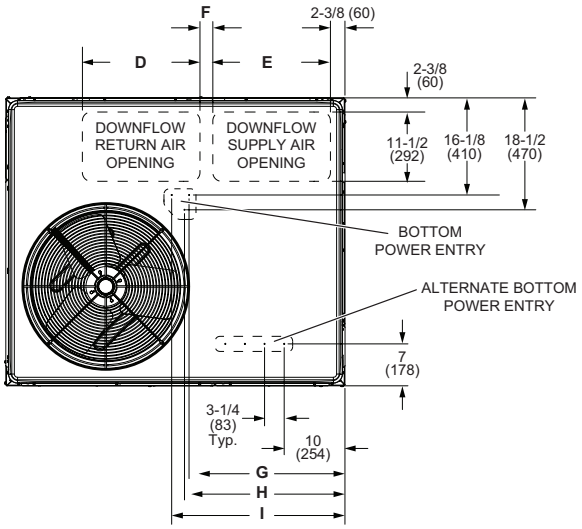
ACCESSORY AIR RESISTANCE DATA - in. w.g.

Air Volume cfm	Square to Round Duct Adaptor Kits			
	Downflow		Horizontal	
	24, 30, 36	42, 48, 60	24, 30, 36	42, 48, 60
500	0.03	- - -	0.04	- - -
600	0.05	- - -	0.07	- - -
700	0.08	0.13	0.08	0.13
800	0.10	0.17	0.12	0.16
900	0.12	0.21	0.15	0.21
1000	0.17	0.24	0.19	0.25
1100	0.18	0.30	0.23	0.30
1200	0.20	0.36	0.29	0.37
1300	0.26	0.43	0.31	0.43
1400	0.31	0.50	0.39	0.51
1500	- - -	0.57	- - -	0.57
1600	- - -	0.63	- - -	0.65
1700	- - -	0.71	- - -	0.72
1800	- - -	0.80	- - -	0.81
1900	- - -	0.91	- - -	0.90
2000	- - -	0.99	- - -	1.01

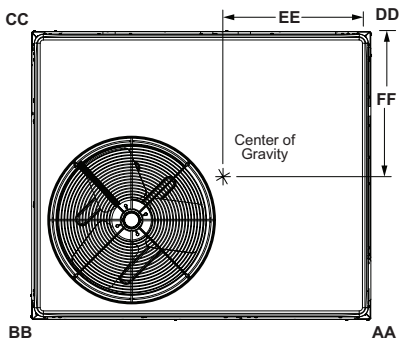
NOTE - Optional Electric Heat has no appreciable air resistance.

DIMENSIONS — UNIT

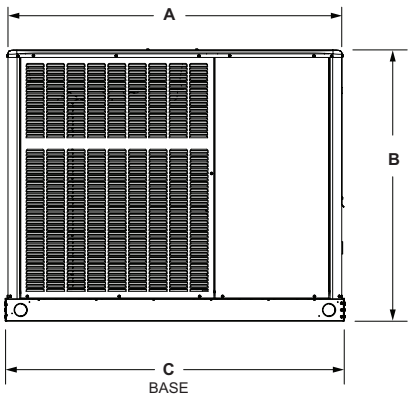
Size	CORNER WEIGHTS								CENTER OF GRAVITY			
	AA		BB		CC		DD		EE		FF	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg	in.	mm	in.	mm
24	87	39	96	44	105	48	95	43	21	533	21-1/2	546
30	89	40	99	45	97	44	107	49	21	533	21-1/2	546
36	91	41	101	46	110	50	100	45	21	533	21-1/2	546
42	116	53	126	57	137	62	126	57	25-1/4	641	21-1/2	546
48	117	53	128	58	138	63	127	58	25-1/4	641	21-1/2	546
60	122	55	133	60	144	65	133	60	25-/14	641	21-1/2	546



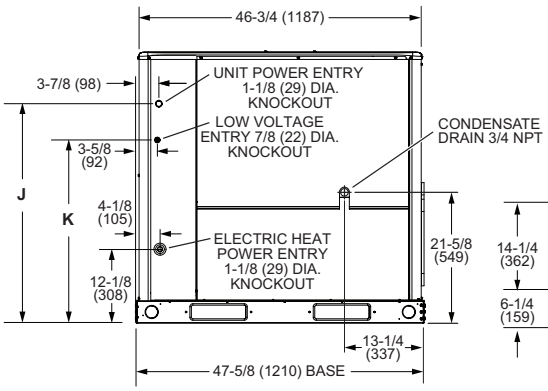
TOP VIEW (Base)



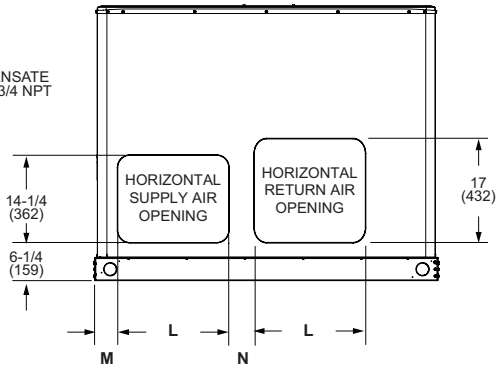
TOP VIEW
(Corner Weight and Center of Gravity)



FRONT VIEW



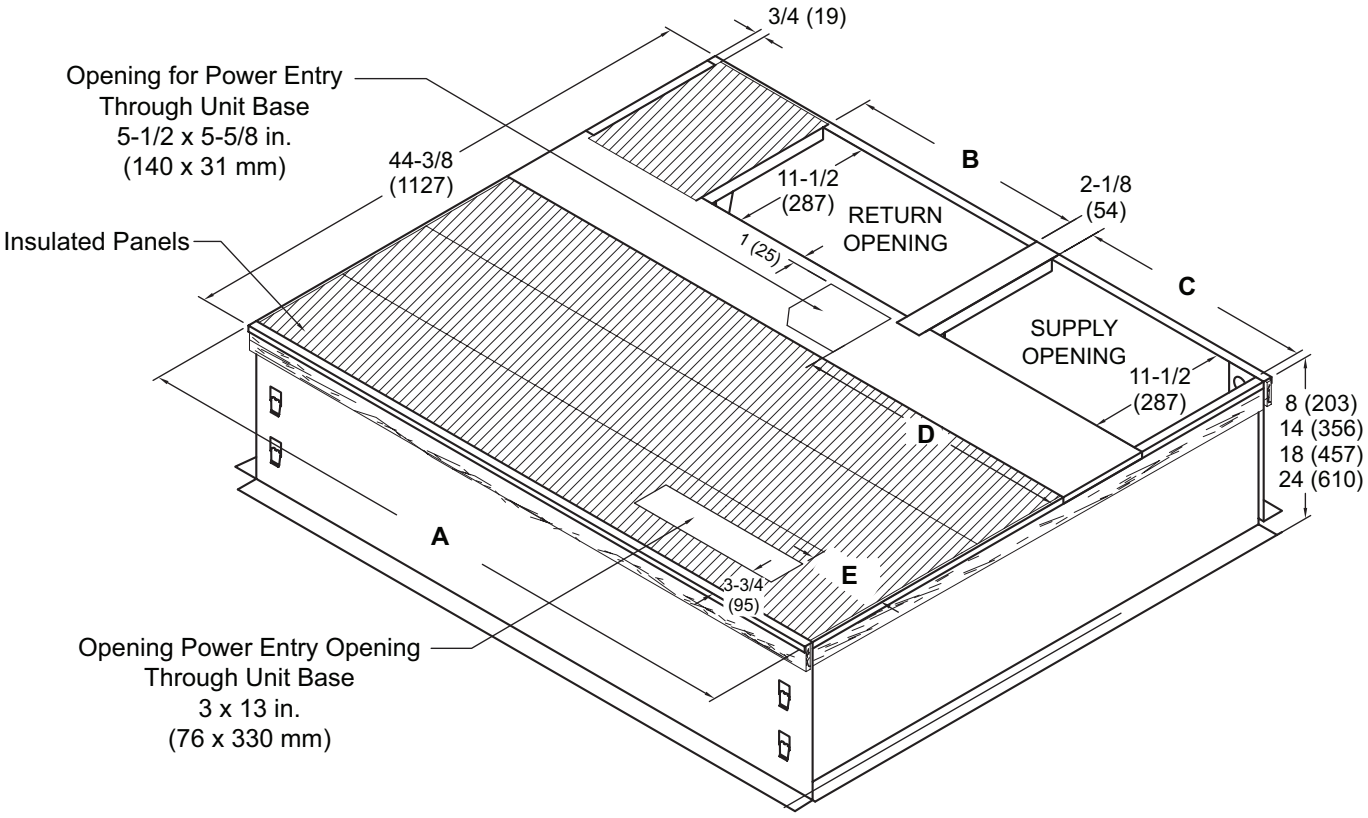
RIGHT SIDE VIEW



BACK VIEW

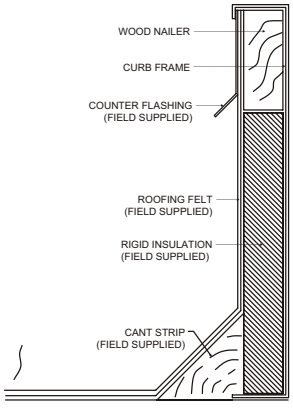
Size	A		B		C		D		E		F		G	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24, 30, 36	47-5/8	1210	40-7/8	1038	47-5/8	1210	16-3/4	425	14	356	2	51	20-1/4	514
42, 48, 60	55-1/4	1403	44-7/8	1140	56-1/8	1426	19-1/2	495	19-1/2	495	2-1/8	54	25-7/8	657
Size	**H**		**I**		**J**		**K**		**L**		**M**		**N**	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24, 30, 36	21	533	23-1/4	591	32-1/4	819	26-1/4	667	13-1/2	343	3-1/8	79	5-7/8	149
42, 48, 60	26-1/2	673	26-3/4	679	36-1/4	921	30-1/4	768	18-1/4	463	3-3/4	95	4-3/8	111

CLIP CURB

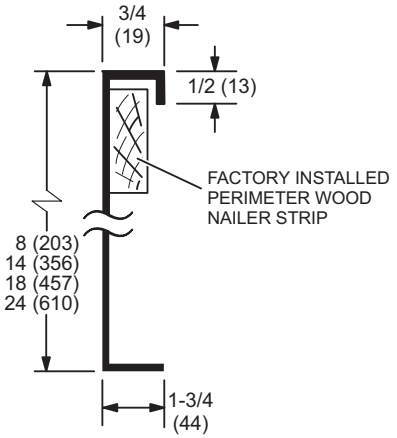


NOTE - Roof deck may be omitted within confines of curb.

TYPICAL FLASHING DETAIL FOR ROOF CURB

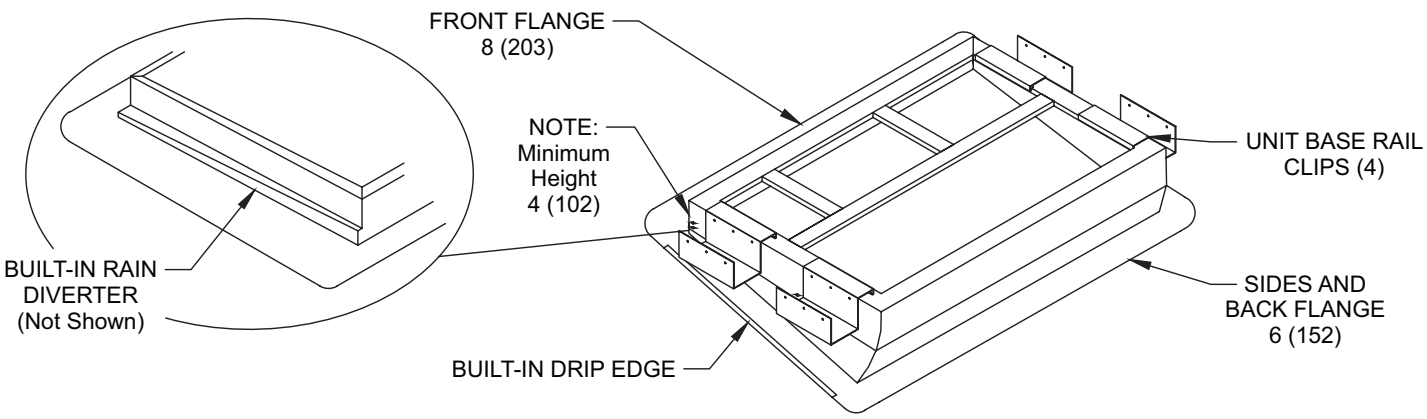


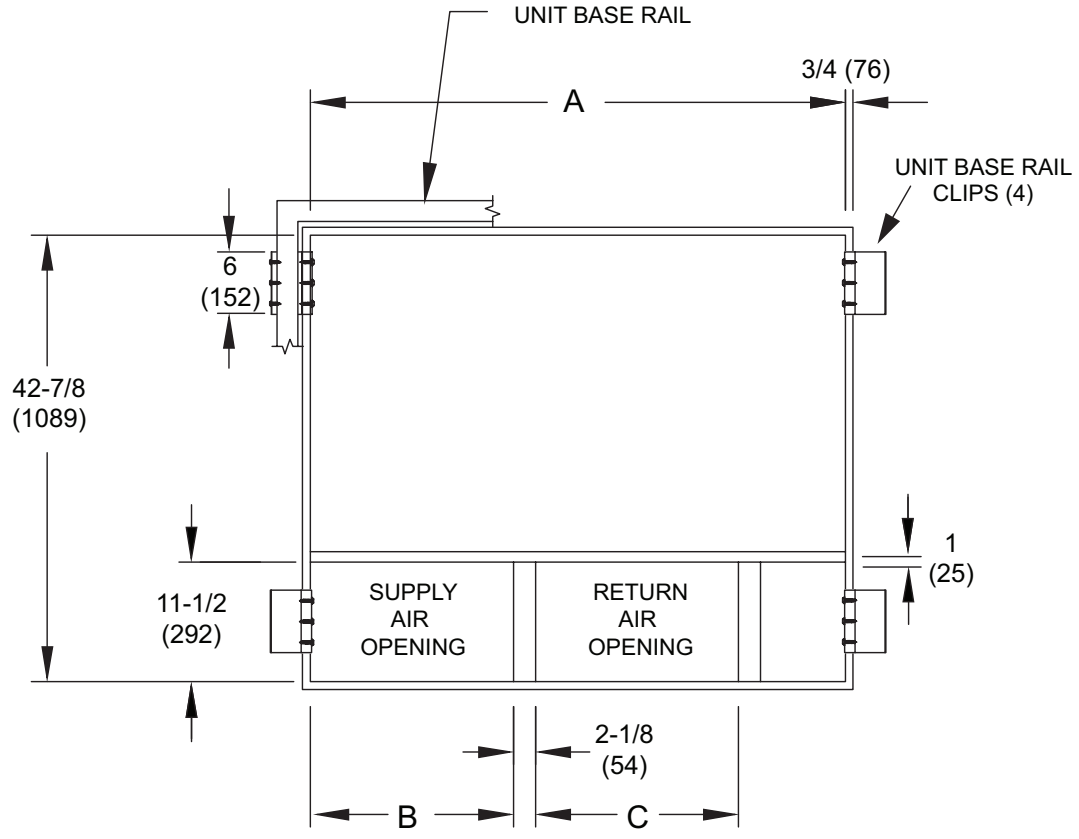
DETAIL ROOF CURB



Usage	A		B		C		D		E	
	in.	mm	in.	mm	in.	mm	in.	mm	in.	mm
24, 30, 36	44-3/8	1127	16-7/8	429	13-7/8	352	17-1/4	438	1-1/4	32
42, 48, 60	52-7/8	1343	19-1/2	380	19-1/2	352	23-1/8	587	7	178

ADJUSTABLE PITCH ROOF CURB





Usage	A		B		C	
	in.	mm	in.	mm	in.	mm
24, 30, 36	42-7/8	1089	13-7/8	352	16-7/8	429
42, 48, 60	51-3/8	1305	19-1/2	495	19-1/2	495

REVISIONS

Sections	Description of Change
Dimension Drawings - Unit	Updated to reflect design changes.
Dimension Drawings - Accessories	Updated to reflect design changes.
Optional Accessories	New Accessories added.

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Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
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