



ENGINEERING DATA

HEAT PUMP OUTDOOR UNITS

HP29

ELITE® SERIES

7.5 and 10 Ton

Net Cooling Capacity - 90,000 and 120,000 Btuh

Net Heating Capacity - 85,000 and 120,000 Btuh

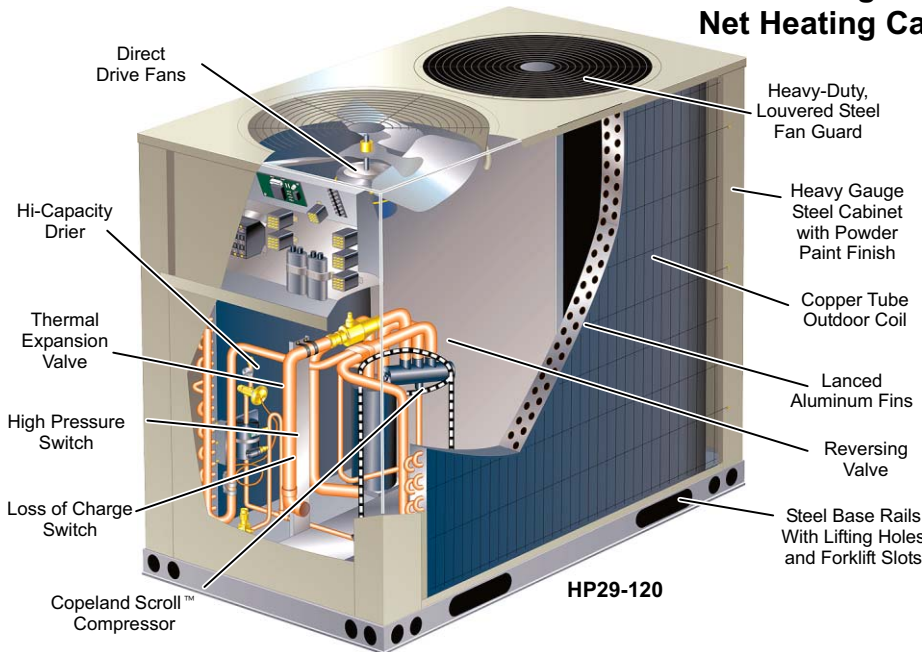
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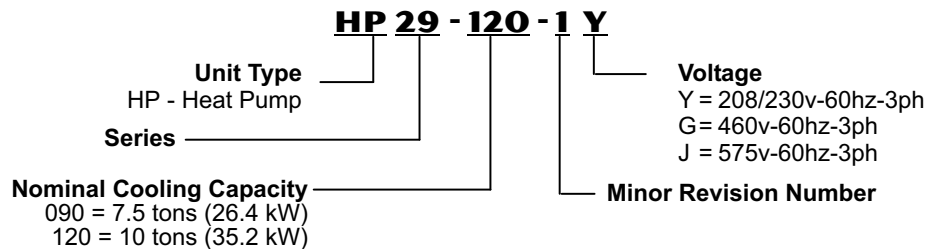
Supersedes August 2002



REGISTERED QUALITY SYSTEMS



MODEL NUMBER IDENTIFICATION



FEATURES

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APPLICATIONS

Heat pump units available in 7.5 and 10 ton (26.4 and 35.2 kW) nominal sizes.
Designed for applications with remotely located blower-coil unit.
See ARI rating tables for efficiencies and capacities. For blower coil unit unit data, see bulletins indexed in tab section Coils-Blower Coil Units.
All units shipped factory assembled, piped and wired.
Test operated at factory to ensure dependable operation.

APPROVALS

All units tested in Lennox Research Laboratory environmental test room.
Certified in accordance with the ULE certification program, which is based on ARI Standard 340/360.
Sound tested in Lennox reverberant sound test room in accordance with test conditions included in ARI Standard 270-95
Units and components within are bonded for grounding to meet safety standards for servicing required by UL, ULC, NEC and CEC.
All units are CSA listed.
ISO 9001 Registered Manufacturing Quality System.

WARRANTY

Compressor - limited warranty for five years.
All other covered components - limited warranty for one year.
Refer to Lennox Equipment Limited Warranty certificate for details.

NOTE - Due to Lennox' ongoing commitment to quality, Specifications, Ratings and Dimensions subject to change without notice and without incurring liability.
Improper installation, adjustment, alteration, service or maintenance can cause property damage or personal injury.
Installation and service must be performed by a qualified installer and servicing agency.

FEATURES

COMPRESSOR

Copeland Scroll™ Compressor

Compressor features high efficiency with uniform suction flow, constant discharge flow and high volumetric efficiency.

Scroll compressor technology eliminates need for start capacitor and start relay.

Compressor consists of two involute spiral scrolls matched together to 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 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.

Scroll 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.

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.

Crankcase Heater (All Models)

Assures proper compressor lubrication at all times.

REFRIGERANT SYSTEM

Copper Tube/Enhanced Fin Coil(s)

HP29-090 equipped with single "U" shaped coil.

HP29-120 equipped with two slab coils.

Lennox designed and fabricated coils constructed of precisely spaced ripple-edge aluminum fins machine fitted to copper tubes. Lanced fins provide maximum exposure of fin surface to air stream resulting in excellent heat transfer.

Fins equipped with collars that grip tubing for maximum contact area.

Flared shoulder tubing connections and silver soldering provide tight, leakproof joints.

Long life copper tubing is corrosion-resistant and easy to field service.

Thoroughly factory tested under high pressure to ensure leak-proof construction.

Completely accessible for cleaning.

Outdoor Fan(s)

HP29-090 units have one outdoor fan.

HP29-120 units have two outdoor fans.

Direct drive fan(s) moves large volumes of air uniformly through entire outdoor coil(s) for high refrigerant cooling capacity.

Upward discharge of air reduces operating sound levels and prevents damage to lawns, shrubs and walkways.

Fan motors are totally enclosed, inherently protected and equipped with a rain shield.

Fan service access is accomplished by removal of fan guards.

Reversing Valve

Factory installed 4-way reversing valve provides rapid change in refrigerant flow direction resulting in quick changeover from cooling to heating and vice-versa.

Valve operates on pressure differential between outdoor unit and indoor unit.

Refrigerant Lines and Service Valves

Sweat connections.

Fully serviceable liquid and suction line service valves provide complete service access to refrigerant system. Suction valve can be fully shut off, while liquid valve can be front seated to manage refrigerant charge while servicing system.

Refrigerant lines and field wiring inlets are located in one central area of the unit cabinet.

Hi-Capacity Drier(s)

Drier traps any moisture or dirt that could contaminate the refrigerant system.

CABINET

Heavy-gauge, pre-painted steel cabinet provides superior rust and corrosion protection.

Removeable panels allow access for unit servicing. See dimension drawings.

Heavy duty steel base channels raise the unit off of mounting surface away from damaging moisture.

Unit lifting holes and forklift slots furnished in base rails. See dimension drawings.

Control Box

Control box located in separate compartment in unit cabinet.

Hinged panel with quarter turn fastener for easy access.

All controls are pre-wired at the factory.

Coil Guard

Corrosion resistant PVC (polyvinyl chloride) coated steel wire guard(s) furnished as standard.

CONTROLS

Defrost Control/Timed-Off Control

Solid-state time/temperature defrost control is furnished as standard equipment.

Control initiates a defrost cycle every 30, 60 or 90 minutes of compressor "on" time at outdoor temperatures below 35° F (2°C) (factory setting 60 minutes).

Maximum defrost cycle 14 minutes.

Defrost thermostat mounted on liquid line determines when defrost cycle is required.

Pressure switch mounted on discharge line determines when defrost cycle is terminated.

Timed off function prevents compressor short cycling.

Provides 5 minute forced run period between compressor start-up and shut-off.

Allows suction and discharge pressure to equalize, permitting compressor to start in unloaded condition.

Automatic reset.

Connections for ambient compensating thermistor and service light thermostat.

High Pressure Switch

Shuts off unit if abnormal operating conditions cause discharge pressure to rise above setting.

Protects the compressor from excessive condensing pressure. Manual reset.

Loss of Charge Switch

Provides loss of charge and freeze-up protection.

Automatic reset.

Low Ambient Operation

Units will operate satisfactorily down to 0°F (-18°C) outdoor air temperature without any additional controls.

Low ambient pressure switch cycles the fan to optimize condensing pressure.

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

THERMOSTAT

Thermostat is not furnished with unit and must be ordered extra. See Thermostats bulletin and Lennox Price Book.

HAIL GUARDS

Heavy duty sheet metal and metal mesh enclosures protect coils from damage. Field installed.

See Dimension drawings and Specifications table.

SPECIFICATIONS

General Data		Model No.	HP29- 090	HP29-120
Nominal Size - Tons (kW)			7.5 (26.4)	10 (35.2)
Connections (sweat)	Liquid line (o.d.) - in. (mm) connection		5/8 (15.9)	5/8 (15.9)
	Vapor line (o.d.) - in. (mm) connection		1-3/8 (34.9)	1-3/8 (34.9)
Refrigerant			dry air holding charge	
Outdoor Coil	Net face area - sq. ft. (m ²) Outer coil		30.0 (2.79)	(2) 38.67 (3.59)
	Inner coil		28.94 (2.69)	---
	Tube diameter - in. (mm) & no. of rows		3/8 (9.5) - 2	3/8 (9.5) - 2
	Fins per inch (m)		20 (787)	20 (787)
Outdoor Coil Fan(s)	Diameter - in. (mm) & no. of blades		(1) 24 (610) - 4	(2) 24 (610) - 4
	Motor hp (W)		(1) 3/4 (560)	(2) 1/2 (373)
	cfm (L/s) total air volume		5400 (2550)	10,400 (4910)
	Rpm		1075	1100
	Motor Input - Watts		600	1070
Shipping	lbs. (kg) 1 package		485 (220)	655 (297)

ELECTRICAL DATA

General Data		Line voltage data - 60 Hz - 3 phase			Line voltage data - 60 Hz - 3 phase		
1 Maximum Overcurrent Protection (amps)		208/230V	460V	575V	208/230V	460V	575V
2 Minimum circuit ampacity		60	35	25	90	40	30
		40	21	16	54	25	18
Compressor (1)	Rated load amps	28.8	14.7	10.8	37.8	17.2	12.4
	Locked rotor amps	195	95	80	239	125	80
Outdoor Coil Fan Motor (1 phase)	Full load amps (total)	3.7	1.9	1.6	3.0 (6.0)	1.5 (3.0)	1.2 (2.4)
	Locked rotor amps (total)	7.3	3.7	3.4	6.0 (12.0)	3.0 (6.0)	2.9 (5.8)

OPTIONAL ACCESSORIES - MUST BE ORDERED EXTRA

Hail Guards	29M45	32M92
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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.

ARI RATINGS

Unit Size & Model No. ¹ Sound Rating Number (db)	Gross Cool. Cap. Btuh (kW)	Net Cool. Cap. Btuh (kW)	² ARI Standard 340/360 Ratings									Blower Coil Unit		Check Valve Kit Required
			High Temp. Htg. Cap. Btuh (kW)	Low Temp. Htg. Cap. Btuh (kW)	Total Unit Cool. Watts	EER (Btuh/Watt)	Cool. C.O.P.	Total Unit High Temp. Htg. Watts	High Temp. Htg. C.O.P.	Total Unit Low Temp. Htg. Watts	Low Temp. Htg. C.O.P.	Up-Flow	Horizontal	
HP29-090 7.5 ton (92 dB)	93,000 (27.3)	90,000 (26.4)	85,000 (24.9)	47,000 (13.8)	8910	10.1	3.0	7790	3.2	6890	2.0	CB17-95V	CBH17-95V	³ LB-51486CA
HP29-120 10 ton (90 dB)	124,500 (36.5)	120,000 (35.2)	120,000 (35.2)	66,000 (19.3)	11,880	10.1	3.0	11,000	3.2	9650	2.0	CB17-135V	CBH17-135V	³ LB-51486CA

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

¹ Sound Rating Number in accordance with ARI Standard 270.

² Certified in accordance with the ULE certification program, which is based on ARI Standard 340/360;

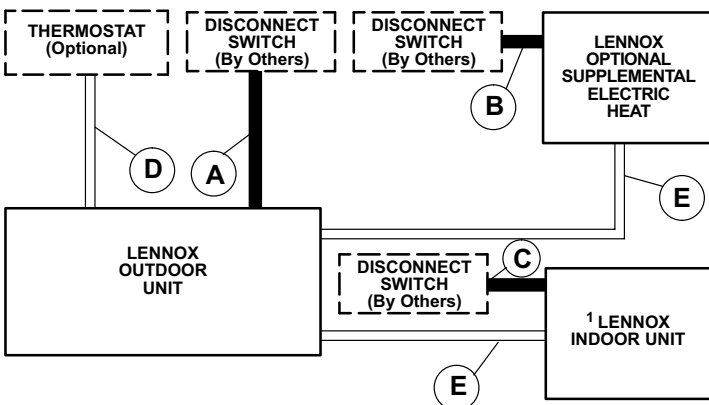
Cooling Ratings - 95°F (35°C) outdoor air temperature and 80°F (27°C) db/67°F (19°C) wb entering indoor coil air.

High Temperature Heating Ratings - 47°F (8°C) db/43°F (6°C) wb outdoor air temperature and 70°F (21°C) db entering indoor coil air.

Low Temperature Heating Ratings - 17°F db/15°F wb outdoor air temperature and 70°F db (21°C) entering indoor coil air.

³ Kit contains two valves, must be ordered extra.

FIELD WIRING



- A - Three Wire Power (see Electrical Data)
- B - Three Wire Power (size to heater capacity)
- C - Three Wire Power (size to indoor coil blower motor)
- D - Seven Wire Low Voltage - 18 ga. minimum - with Electric Heat
- E - Five Wire Low Voltage - 18 ga. minimum

- Field Wiring Not Furnished -

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

¹ CB17/CBH17 applications without electric heat require a separate 70VA (minimum rating) transformer.

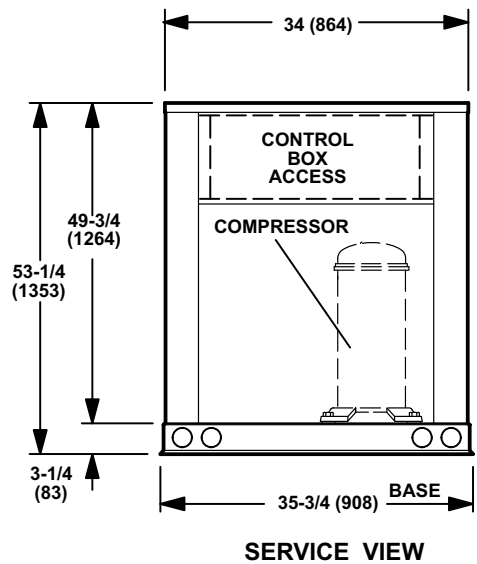
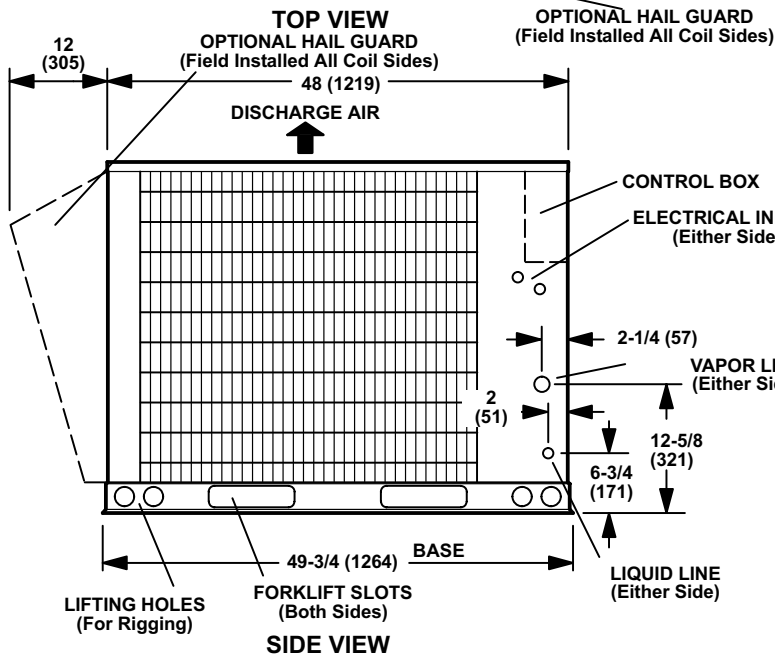
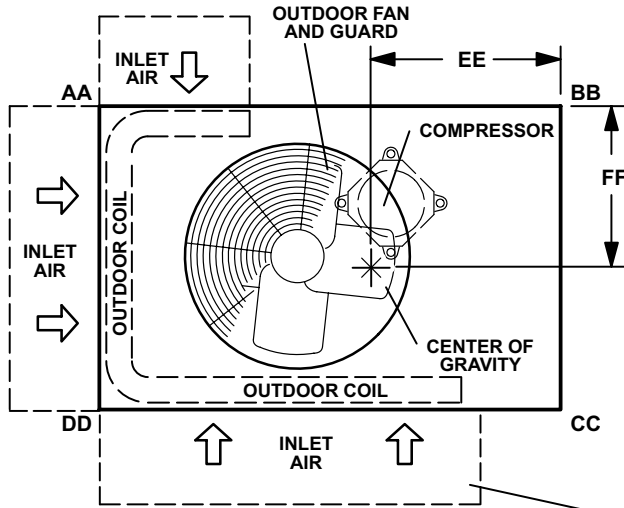
DIMENSIONS - HP29-090

CORNER WEIGHTS

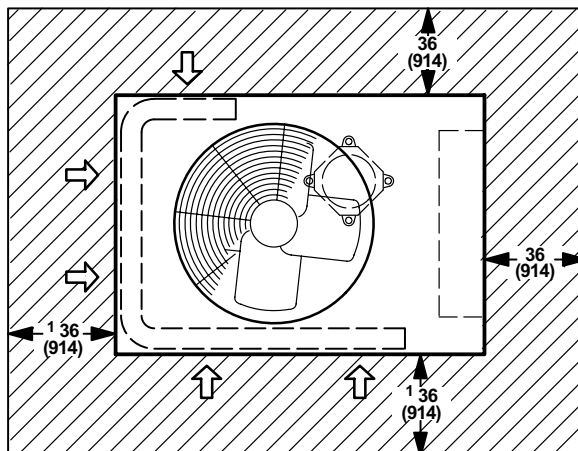
Model No.	AA		BB		CC		DD	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
HP29-090	101	46	113	51	143	65	128	58

CENTER OF GRAVITY

Model No.	EE		FF	
	inch	mm	inch	mm
HP29-090	23-1/2	597	15-3/4	400



INSTALLATION CLEARANCES - INCHES (MM)



NOTE - 48 inches (1219 mm) clearance required on top of unit.
 1 NOTE - One side of coil may be 12 inches (305 mm).

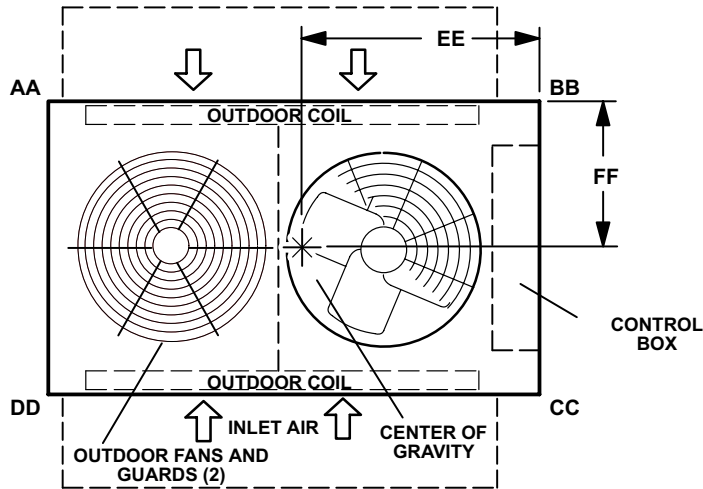
DIMENSIONS - HP29-120

CORNER WEIGHTS

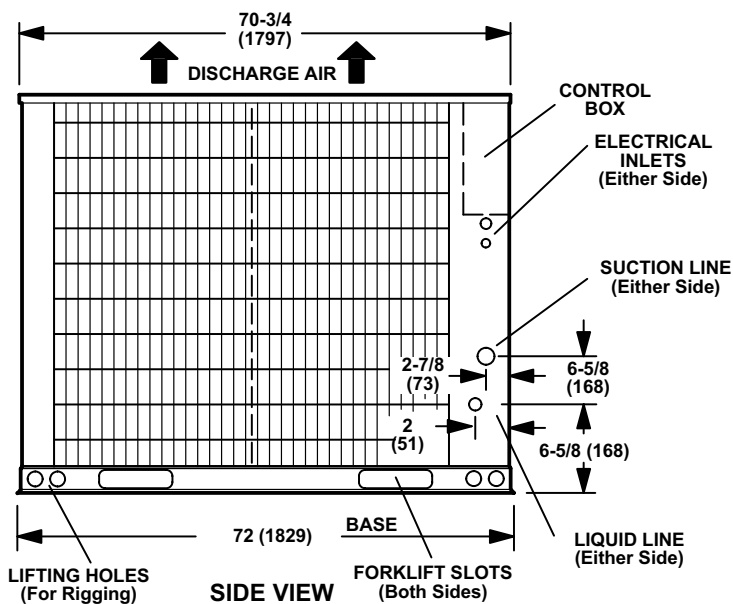
Model No.	AA		BB		CC		DD	
	lbs.	kg	lbs.	kg	lbs.	kg	lbs.	kg
HP29-120	135	61	192	87	192	87	135	61

CENTER OF GRAVITY

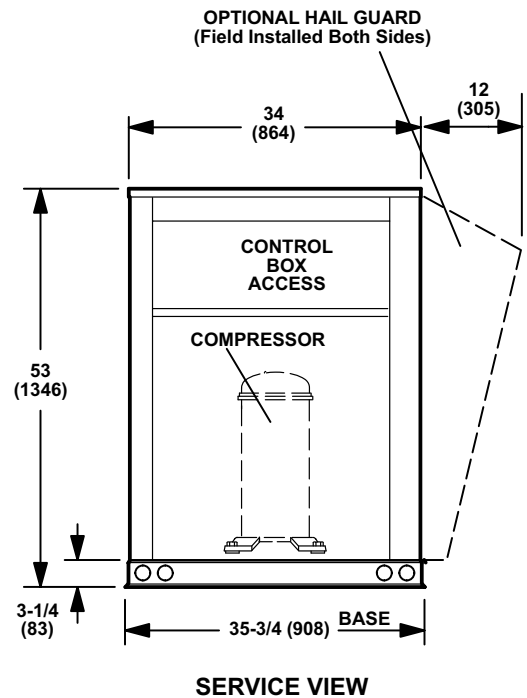
Model No.	EE		FF	
	inch	mm	inch	mm
HP29-120	29-3/4	756	17-5/8	448



TOP VIEW

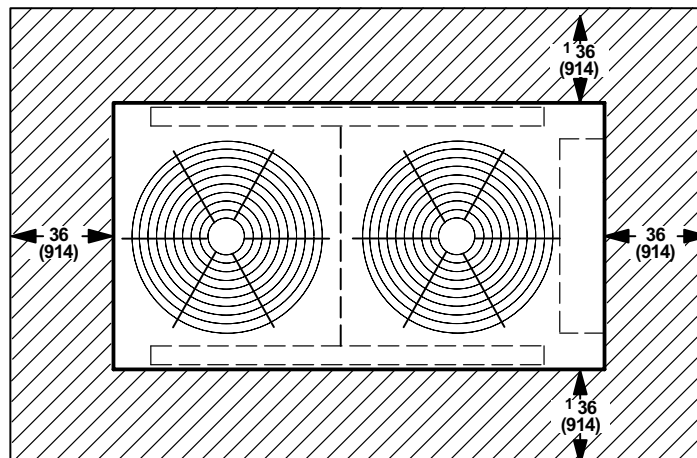


SIDE VIEW



SERVICE VIEW

INSTALLATION CLEARANCES - INCHES (MM)



NOTE - 48 inches (1219 mm) clearance required on top of unit.
 1 NOTE - One side of coil may be 12 inches (305 mm).

COOLING AND 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.

HP29-090 - CB17/CBH17-95 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	2400	1135	89.1	26.1	6.65	.71	.84	.96	86.1	25.2	7.41	.72	.86	.98	82.7	24.2	8.27	.73	.87	.99	78.9	23.1	9.25	.75	.89	1.00
	3000	1415	92.8	27.2	6.73	.76	.91	1.00	89.6	26.3	7.49	.78	.93	1.00	86.1	25.2	8.35	.79	.95	1.00	82.3	24.1	9.30	.81	.97	1.00
	3600	1700	95.8	28.1	6.79	.81	.97	1.00	92.6	27.1	7.54	.83	.98	1.00	89.1	26.1	8.41	.85	1.00	1.00	85.4	25.0	9.38	.87	1.00	1.00
67°F (19°C)	2400	1135	94.9	27.8	6.77	.56	.68	.81	91.5	26.8	7.53	.56	.69	.82	87.8	25.7	8.38	.57	.71	.84	83.8	24.6	9.35	.58	.72	.86
	3000	1415	98.0	28.7	6.83	.59	.74	.88	94.5	27.7	7.59	.60	.75	.90	90.7	26.6	8.45	.61	.77	.92	86.5	25.4	9.41	.62	.79	.94
	3600	1700	100.3	29.4	6.88	.62	.79	.95	96.7	28.3	7.64	.63	.81	.96	92.8	27.2	8.50	.64	.83	.98	88.4	25.9	9.47	.65	.85	.99
71°F (22°C)	2400	1135	101.3	29.7	6.90	.42	.54	.66	97.7	28.6	7.66	.42	.55	.67	93.8	27.5	8.52	.43	.55	.68	89.5	26.2	9.48	.44	.56	.70
	3000	1415	104.3	30.6	6.96	.43	.57	.71	100.6	29.5	7.72	.43	.58	.73	96.4	28.3	8.58	.44	.59	.74	92.0	27.0	9.54	.44	.60	.76
	3600	1700	106.5	31.2	7.00	.44	.61	.77	102.5	30.0	7.77	.45	.62	.79	98.3	28.8	8.62	.45	.63	.80	93.7	27.5	9.58	.46	.64	.83

HP29-120 - CB17/CBH17-135 COOLING CAPACITY

Entering Wet Bulb Temperature	Total Air Volume		Outdoor Air Temperature Entering Outdoor Coil																							
			85°F (29°C)						95°F (35°C)						105°F (41°C)						115°F (46°C)					
			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb			Total Cooling Capacity		Comp Motor kW Input	Sensible To Total Ratio (S/T) Dry Bulb		
			kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C	kBtuh	kW		75°F 24°C	80°F 27°C	85°F 29°C
63°F (17°C)	3200	1510	117.4	34.4	8.53	.69	.84	.98	113.5	33.3	9.42	.70	.86	.99	109.2	32.0	10.44	.71	.88	1.00	104.6	30.7	11.62	.73	.90	1.00
	4000	1890	122.3	35.8	8.62	.75	.92	1.00	118.2	34.6	9.51	.76	.94	1.00	113.8	33.4	10.54	.78	.96	1.00	109.1	32.0	11.72	.80	.98	1.00
	4800	2265	126.5	37.1	8.70	.81	.99	1.00	122.4	35.9	9.59	.83	1.00	1.00	118.3	34.7	10.61	.85	1.00	1.00	113.7	33.3	11.80	.87	1.00	1.00
67°F (19°C)	3200	1510	125.0	36.6	8.66	.54	.67	.80	120.7	35.4	9.55	.55	.68	.82	116.0	34.0	10.57	.55	.69	.84	111.0	32.5	11.73	.56	.70	.86
	4000	1890	129.1	37.8	8.74	.57	.72	.89	124.5	36.5	9.62	.58	.74	.91	119.6	35.1	10.64	.59	.75	.93	114.3	33.5	11.82	.60	.77	.95
	4800	2265	132.1	38.7	8.79	.61	.78	.96	127.4	37.3	9.67	.62	.80	.98	122.3	35.8	10.70	.63	.82	.99	117.0	34.3	11.88	.64	.85	1.00
71°F (22°C)	3200	1510	133.5	39.1	8.82	.41	.52	.64	128.9	37.8	9.70	.41	.53	.65	124.0	36.3	10.72	.41	.54	.67	118.6	34.8	11.89	.41	.55	.68
	4000	1890	137.6	40.3	8.89	.42	.56	.70	132.6	38.9	9.77	.42	.57	.71	127.3	37.3	10.79	.42	.58	.73	121.6	35.6	11.95	.43	.59	.75
	4800	2265	140.1	41.1	8.94	.43	.60	.76	135.1	39.6	9.82	.43	.61	.78	129.6	38.0	10.83	.44	.62	.80	123.7	36.3	12.01	.44	.63	.82

HP29-090 - CB17/CBH17-95 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)							
cfm	L/s	Total Heating Capacity		Comp. Motor kW Input		Total Heating Capacity		Comp. Motor kW Input		Total Heating Capacity		Comp. Motor kW Input				
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW			
2400	1135	107.6	31.5	7.47	82.8	24.3	6.74	58.3	17.1	5.98	33.9	9.9	5.19	17.9	5.2	3.91
3000	1415	107.8	31.6	7.14	83.0	24.3	6.41	58.5	17.1	5.65	34.1	10.0	4.86	18.1	5.3	3.58
3600	1700	109.4	32.1	6.64	84.6	24.8	5.91	60.1	17.6	5.15	35.7	10.5	4.36	19.7	5.8	3.08

HP29-120 - CB17/CBH17-135 - HEATING CAPACITY

Indoor Coil Air Volume 70°F db (21°C db)	Air Temperature Entering Outdoor Coil															
	65°F (18°C)		45°F (7°C)		25°F (-4°C)		5°F (-15°C)		-15°F (-26°C)							
cfm	L/s	Total Heating Capacity		Comp. Motor kW... Motor kW		Total Heating Capacity		Comp. Motor kW... Motor kW		Total Heating Capacity		Comp. Motor kW... Motor kW				
		kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW	kBtuh	kW			
3200	1510	150.9	44.2	10.23	115.2	33.8	9.27	79.6	23.3	8.30	46.3	13.6	7.20	23.9	7.0	5.48
4000	1890	152.4	44.7	9.54	116.7	34.2	8.58	81.1	23.8	7.61	47.8	14.0	6.51	25.4	7.4	4.79
4800	2265	154.9	45.4	9.30	119.2	34.9	8.34	83.6	24.5	7.37	50.3	14.7	6.27	27.9	8.2	4.55

HP29-090 - CB17/CBH17-95 - HEATING PERFORMANCE at 3000 cfm (1415 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C			kBtuh	kW
65	18	7.14		107.8	31.6
60	16	6.97		101.5	29.7
55	13	6.79		95.1	27.9
50	10	6.61		88.8	26.0
47	8	6.50		85.0	24.9
45	7	6.41		83.0	24.3
40	4	6.16		78.0	22.9
35	2	5.92		72.9	21.4
30	-1	5.79		65.7	19.3
25	-4	5.65		58.5	17.1
20	-7	5.52		51.3	15.0
17	-8	5.43		47.0	13.8
15	-9	5.36		44.5	13.0
10	-12	5.19		38.1	11.2
5	-15	4.86		34.1	10.0
0	-18	4.54		30.1	8.8
-5	-21	4.22		26.1	7.6
-10	-23	3.90		22.1	6.5
-15	-26	3.58		18.1	5.3
-20	-29	3.26		14.1	4.1

HP29-120 - CB17-CBH17-135 - HEATING PERFORMANCE at 4000 cfm (1890 L/s) Indoor Coil Air Volume

*Outdoor Temperature		Compressor Motor kW Input		Total Output	
°F	°C			kBtuh	kW
65	18	9.54		152.4	44.7
60	16	9.31		143.4	42.0
55	13	9.07		134.4	39.4
50	10	8.83		125.4	36.8
47	8	8.69		120.0	35.2
45	7	8.58		116.7	34.2
40	4	8.31		108.3	31.7
35	2	8.04		100.0	29.3
30	-1	7.83		90.6	26.6
25	-4	7.61		81.1	23.8
20	-7	7.40		71.7	21.0
17	-8	7.27		66.0	19.3
15	-9	7.18		62.4	18.3
10	-12	6.94		53.4	15.6
5	-15	6.51		47.8	14.0
0	-18	6.08		42.2	12.4
-5	-21	5.65		36.6	10.7
-10	-23	5.22		31.0	9.1
-15	-26	4.79		25.4	7.4
-20	-29	4.36		19.8	5.8

GUIDE SPECIFICATIONS

General

Furnish and install an air cooled heat pump outdoor unit.

The unit shall be a standard product of a firm regularly engaged in the manufacture of heating-cooling equipment. The manufacturer shall have parts and service available throughout the U.S. and Canada.

The unit shall be shipped completely factory assembled, piped and wired internally ready for field connections.

Unit shall be test operated at factory prior to shipment.

Approvals

All models shall have CSA listing. All wiring shall be in compliance with NEC and CEC.

Shall be rated and certified in accordance with the ULE certification program, which is based on ARI Standard 340/360-2000.

Equipment Warranty

Compressors have a limited warranty for a full five years.

All other covered components have a limited warranty for one year.

Refer to the Lennox Equipment Limited Warranty certificate for details.

Refrigerant System

Shall include fully serviceable liquid and vapor line service valves, gauge ports, hi-capacity driers, high pressure switch, loss of charge switch, suction line accumulator, expansion valve, reversing valve and defrost/timed-off control.

All models shall have low ambient cooling operation down to 0°F (-18°C).

Control options available shall include thermostat.

Outdoor Coil(s)

Shall be non-ferrous construction with aluminum enhanced fins mechanically bonded to enhanced copper tubes.

Coil(s) shall be pressure leak tested.

Compressor

Shall have single speed scroll compressor.

Compressor shall be resiliently mounted, suction cooled, overload protected, and have internal excessive current and temperature protection.

Compressor shall have crankcase heater.

Cabinet

Shall be constructed of galvanized steel which has been through a metal wash preparation and have a pre-painted finish.

Openings shall be provided for refrigerant lines and power connection entry.

Outdoor Coil Fans

Shall be direct drive blade type fan(s).

Motor(s) shall have inherent protection devices and shall be protected from moisture.

Fan(s) shall have a safety guard.

OPTIONAL ACCESSORIES

Hail Guards

Furnish and field install heavy duty coil guard to protect coils.

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CERTIFICATION APPLIES ONLY
WHEN THE COMPLETE
SYSTEM IS LISTED
WITH ARI