

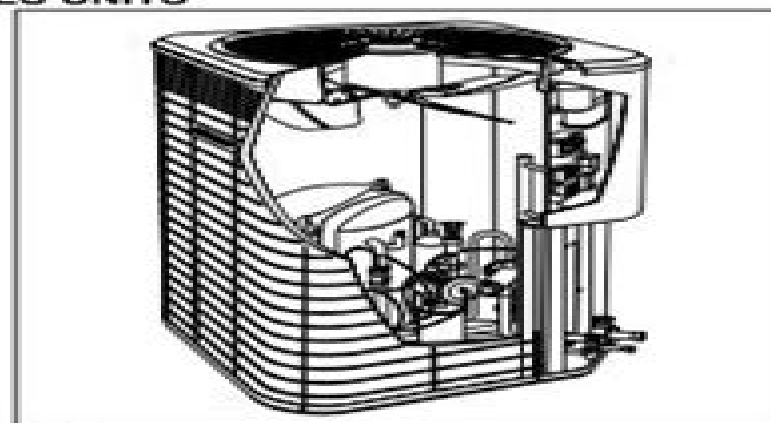
### HP29 SERIES UNITS

The HP29 is a residential split-system heat pump. Outdoor coil size, circuiting and air volume result in a minimum SEER rating of 10.0. All HP29 units are designed for use with thermal expansion valves.

Some HP29 units (-211 through -650, -018 and -024) utilize a reciprocating compressor. These models are furnished with crankcase heaters. The heater prevents liquid from accumulating in the compressor. All compressors are hermetically sealed for trouble-free operation and long service life. Reciprocating compressor components are spring-mounted within the sealed housing. A built-in limit protects the compressor from excessive current and temperatures. Other HP29 units (-030 through -060) utilize a scroll compressor. The scroll operates like a standard heatpump, but is unique in the way that it compresses refrigerant.

This manual is divided into sections which discuss major components, refrigerant system, charging procedures, maintenance, and operation sequence.

All specifications in this manual are subject to change.



#### SPECIFICATIONS

Model No.			HP29-211	HP29-261	HP29-311
Outdoor Coil	Net face area - sq. ft. (m <sup>2</sup> )	Outer coil Inner coil	11.41 (1.06)	11.41 (1.06)	13.21 (1.24)
			----	----	----
	Tube diameter — in. (mm) & no. of rows		5/16 (7.9) — 1	5/16 (7.9) — 1	5/16 (7.9) — 1
Outdoor Coil Fan	Fins per inch (m)		22 (866)	22 (866)	22 (866)
	Diameter — in. (mm) & no. of blades		18 (457) — 3	18 (457) — 3	18 (457) — 4
	Motor hp (W)		1/6 (124)	1/6 (124)	1/6 (124)
	CFM (L/s)		2400 (1135)	2400 (1135)	2500 (1180)
	Rpm		1105	1105	1100
	Watts		160	160	200
*Refrigerant charge furnished (HCFC-22)			4 lbs. 5 oz. (1.96 kg)	4 lbs. 4 oz. (1.92 kg)	4 lbs. 15 oz. (2.24 kg)
Liquid line — in. (mm) o.d. connection (sweet)			**3/8 to 5/16 (8)	**3/8 to 5/16 (8)	**3/8 to 5/16 (8)
Vapor line — in. (mm) o.d. connection (sweet)			5/8 (15.9)	5/8 (15.9)	3/4 (19.1)
Shipping weight — lbs. (kg) 1 package			152 (69)	152 (69)	164 (74)

\*Refrigerant charge sufficient for 20 ft. (6.1 m) length of refrigerant lines.

\*\*3/8 to 3/4 reducer coupling supplied with unit.

#### SPECIFICATIONS

Model No.			HP29-411/HP29-41	HP29-461/HP29-463	HP29-511/HP29-513	HP29-651/HP29-653
Outdoor Coil	Net face area - sq. ft. (m <sup>2</sup> )	Outer coil Inner coil	15.21 (1.41)	15.21 (1.41)	15.21 (1.41)	15.21 (1.41)
			----	5.44 (0.51)	5.44 (0.51)	14.58 (1.35)
	Tube diameter — in. (mm) & no. of rows		5/16 (7.9) — 1	5/16 (7.9) — 1.37	5/16 (7.9) — 1.37	5/16 (7.9) — 2
Outdoor Coil Fan	Fins per inch (m)		22 (866)	22 (866)	22 (866)	22 (866)
	Diameter — in. (mm) & no. of blades		18 (457) — 4	18 (457) — 4	18 (457) — 4	18 (457) — 4
	Motor hp (W)		1/6 (124)	1/6 (124)	1/3 (249)	1/3 (249)
	CFM (L/s)		2500 (1180)	2500 (1180)	2950 (1380)	2950 (1385)
	Rpm		1100	1100	1100	1100
	Watts		200	200	310	310
*Refrigerant charge furnished (HCFC-22)			6 lbs. 5 oz. (2.81 kg)	7 lbs. 13 oz. (3.54 kg)	7 lbs. 1 oz. (3.20 kg)	9 lbs. 0 oz. (4.08 kg)
Liquid line — in. (mm) o.d. connection (sweet)			3/8 (9.5)	3/8 (9.5)	3/8 (9.5)	3/8 (9.5)
Vapor line — in. (mm) o.d. connection (sweet)			3/4 (19.1)	7/8 (22.2)	7/8 (22.2)	1-1/8 (28.6)
Shipping weight — lbs. (kg) 1 package			174 (79)	199 (90)	206 (93)	221 (100)

\*Refrigerant charge sufficient for 20 ft. (6.1 m) length of refrigerant lines.

# Lennox Hp29 Service Manual

**Lennox Industries**

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Lennox Service Literature Lennox Industries, 1995

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