Corp. 9709-L5 Revised 8-2004

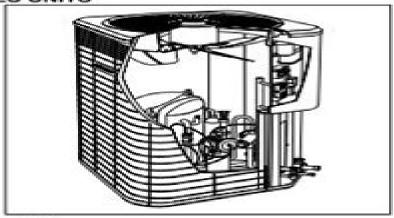
#### **HP29 SERIES UNITS**

The HP29 is a residential split-system heat pump. Outdoor coil size, drouting 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 retrigerant.

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
	Net face area - sq. ft. (m²)	Outer coll	11.41 (1.00)	11.41 (1.06)	13.31 (1.24)
Cutdoor		Inner coll	The second secon	C. C	10 10 10 464 464 15 10 L
	Tube clameter in. (mm) & no. of rows		5/16 (7.9) — 1	5016 (7.9) 1	5/16 (7.9) — 1
	Fins per inch (m)		22 (866)	22 (566)	22 (886)
Outdoor Coll Fan	Diameter — in. (mm) & no. of blades		18 (457) 3	18 (457) 3	18 (457) 4
	Motor hip (W)		5/6 (124)	7/6 (124)	386 (324)
	Ctm (Us)		2400 (1135)	29000 (1135)	2500 (1180)
	Rpm		1105	1105	1100
	Wwta		180	180	200
Refrigerant charge furnished (HCFC-22)			4 lbs. 5 az. (1.96 kg)	4 fbs. 4 oz. (1.82 kg)	4 lbs. 15 oz. 62.24 kg/l
louid line — In. (mm) o.d. connection (sweat)			***S/8 to 5/16 (8)	*** 3x8 to 5/16 (8)	""3VB to 5/16 (B)
(apor line — in. (mm) o.d. connection (sweat)			5/8 (15.9)	5/8 (15.9)	3/4 (19.1)
hipping weight — Ibs. (kg) 1 package			152 (69)	152 (69)	264 (74)

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

"5"16 to 318 reducer coupling supplied with unit.

#### SPECIFICATIONS

			SPECIFICATIO	24429		
Model No.			HP29-411/HP29-41	HP22-9510-P23-463	HP29-511/HP29-513	HIP20-65 NHP20-653
Outdoor Coll	Net face area - eq. ft. (m²)	Custor coll	18.21 (1.41)	15.21 (1.41)	15.21 (1.41)	15.21 (1.41)
		Inner coll		0.44 (0.54)	5,44 (0.54)	14.50 (10.5)
	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
	Fina per inch (es)		22 (866)	22 (864)	22 (866)	22 (868)
Custoor Coll Fan	Diameter — in. (mm) & no. of blades		18 (457) 4	18 (457) 4	16 (457) 4	16 (457) 4
	Motor hp (W)		1/6 (124)	1/6 (124)	1/3 (249)	1/3 (2)490
	Cfm (Lm)		2520 (1190)	2500 (1180)	25950 (1350)	2930 (1365)
	Rpm		1100	1100	1100	1100
	Watts		200	200	310	310
Refrigerant charge furnished (HCFC-22)		6 fbs. 3 sat. (2.81 kg):	7 this, 13 car, ¢3.54 kg/l	7 the 1 on (3.20 kg)	9 lbe. O oz. (4.08 kg)	
kguid line in. (mm) a.d. connection (sweat)		3/6-(9.5)	3/8 (9.5)	3/6 (9.5)	28/8 (19.15)	
rapor line — in. (mm) o.d. connection (swest)		3/4 (19.1)	7.08 (22.2)	Triff (22.2)	1-1/8 (28.6)	
Shipping weight — lbs. (kg) I 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**

**Rachel Sandford** 

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## **Table of Contents Lennox Hp29 Service Manual**

- 1. Understanding the eBook Lennox Hp29 Service Manual
  - The Rise of Digital Reading Lennox Hp29 Service Manual
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Lennox Hp29 Service Manual
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Lennox Hp29 Service Manual
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Lennox Hp29 Service Manual
  - Personalized Recommendations
  - Lennox Hp29 Service Manual User Reviews and Ratings
  - Lennox Hp29 Service Manual and Bestseller Lists
- 5. Accessing Lennox Hp29 Service Manual Free and Paid eBooks
  - Lennox Hp29 Service Manual Public Domain eBooks
  - Lennox Hp29 Service Manual eBook Subscription Services
  - Lennox Hp29 Service Manual Budget-Friendly Options

- 6. Navigating Lennox Hp29 Service Manual eBook Formats
  - o ePub, PDF, MOBI, and More
  - Lennox Hp29 Service Manual Compatibility with Devices
  - Lennox Hp29 Service Manual Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Lennox Hp29 Service Manual
  - Highlighting and Note-Taking Lennox Hp29 Service Manual
  - o Interactive Elements Lennox Hp29 Service Manual
- 8. Staying Engaged with Lennox Hp29 Service Manual
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Lennox Hp29 Service Manual
- 9. Balancing eBooks and Physical Books Lennox Hp29 Service Manual
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Lennox Hp29 Service Manual
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Lennox Hp29 Service Manual
  - Setting Reading Goals Lennox Hp29 Service Manual
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Lennox Hp29 Service Manual
  - Fact-Checking eBook Content of Lennox Hp29 Service Manual
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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