



Refcomp SP4LN0600 SP4LN060E SP Series Reciprocating Semi Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4LN0600, SP4LN060E
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 100000Pcs/Year



Product Specification

- Oil Charge: 2.6L
- Displacement 50/60Hz: 35/42 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 6HP/4.5KW
- Oil Lubrication Method: Splash Lubrication
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight: Refcomp SP Series reciprocating compressor, Semi hermetic compressor with warranty, SP4LN0600 semi hermetic compressor



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Product Description

Refcomp SP4LN0600 SP4LN060E SP Series Reciprocating Semi Hermetic Compressor

Product Overview

Optimized for deep-freeze cooling applications, this reciprocating semi-hermetic compressor delivers reliable performance with advanced capacity control and robust construction.

Optimized Low-Temp Compression: Designed for deep-freeze cooling with displacement up to 42 m³/h and 100%/50% capacity step control for efficient refrigeration load management.

Direct-Path Suction Flow: Features direct internal gas channels and high-strength housing rated for 28 bar, minimizing pressure drop and maintaining high volumetric efficiency.

Heavy-Duty Internal Drive Mechanism: Built with dynamically balanced 4-cylinder crankshaft, wear-resistant sleeve bearings, and internal safety relief valve for low-temperature operation.

Standard Protection & Service Package: Includes INT69B2 motor thermal overload protection, factory-installed 230V/220W crankcase heater, and 360° rotatable suction (28mm) and exhaust (22mm) shut-off valves.

Product Image



Model SP		L (Low-Temp Compressor)							
		SP4LF/SP4LN				SP4L			
		600	800	1000	1200	1500	1800	2200	2500
		060E	080E	100E	120E	150E	180E	220E	250E
Rated power	Hp/kW	6/4.5	8/5.9	10/7.5	12/8.9	15/11.2	18/13.3	22/16.4	25/18.7
Exhaust volume 50/60Hz	m³/hr	35/42	42/50.4	49/58.8	56/67.2	64.7/77.6	75/90	86.1/103.3	102.9/123.5
Cylinders		4	4	4	4	4	4	4	4
Weight	Kg	134	139	144	146	182	186	195	220
Oil Charge	dm³	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7
Crankcase heater		230V-220W-50/60Hz				230V-150W-50/60Hz			
Exhaust pipe inner diameter Φ	mm/inches	22/7/8"	28/1-1/8	28/1-1/8	28/1-1/8	28/1-1/8"	28/1-1/8"	28/1-1/8"	35/1-3/8"
Suction pipe inner diameter Φ	mm/inches	28/1-1/8"	35/1-3/8"	35/1-1/8"	35/1-3/8"	42/1-5/8"	42/1-5/8"	54/2-1/8"	54/2-1/8"
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%
Standard motor		400V/3/50Hz 460V/3/60Hz PW				400V/3/50Hz 460V/3/60Hz PW			
Starting current PW/DOL	A	43/70	54/88	71/110	75/125	88/146	102/170	102/170	123/201
Starting current Y/D	A	—	—	—	—	—	—	—	—
Max operating current	A	16	19	24	27	29	33	39	43

Technical Specifications

Model	SP4LN0600, SP4LN060E
Rated Power	6HP / 4.5KW
Exhaust Volume (50Hz/60Hz)	35 / 42 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	134 KG
Oil Charge	2.6 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	43 / 70 A
Max Operating Current	16 A

Frequently Asked Questions

Q1: What oil balance precautions should be taken when installing this compressor in a parallel rack system?

A1: Install common oil-equalizing lines and electronic oil level regulators across all rack units to maintain uniform crankcase oil levels during staged compressor cycling.

Q2: What potential causes should be checked if discharge temperature rises excessively during low-evaporating operation?

A2: Inspect for excessive suction superheat, insufficient mass flow, degraded lubricant, or restricted airflow across any optional cylinder head cooling fan.

Q3: What technical details are needed when ordering customized low-temperature refrigeration skids using this model?

A3: Provide target evaporating/condensing temperatures, total cooling load requirements, defrost method, voltage supply, and local ambient room conditions.

Q4: How do low ambient room temperatures affect off-cycle crankcase heater control?

A4: Keep the 220W crankcase heater energized during all standby periods to maintain oil temperature above ambient levels and prevent liquid refrigerant migration.

