



Refcomp SP4L2500 SP4L250E Semi Hermetically Sealed Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4L2500, SP4L250E
- 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: 3.7L
- Rated Power: 25HP/18.7KW
- Displacement 50/60Hz: 102.9/123.5 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight: **Refcomp SP4L2500 semi hermetically sealed compressor**
,
SP4L250E reciprocating compressor with warranty
, semi hermetic compressor for refrigeration



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Product Description

Refcomp SP4L2500 SP4L250E Semi Hermetically Sealed Reciprocating Compressor

Product Overview

High-Displacement Low-Temp Output

Delivering an exhaust volume of up to 123.5 m³/h with 100% and 50% step energy regulation, this semi hermetically sealed compressor meets demanding low-temperature refrigeration duties.

Direct Gas Flow Geometry

Featuring an optimized 4-cylinder design with direct suction gas passages inside a 28 bar pressure-rated casing, reducing internal pressure drops and maintaining high compression efficiency.

Broad Dual-Frequency Grid Adaptability

Engineered to operate seamlessly across 400V/50Hz and 460V/60Hz industrial power supplies, this semi-hermetic compressor supports multi-refrigerant low-temperature systems.

Standard Protection & Serviceability Kit

360° adjustable suction (54 mm) and exhaust (35 mm) shut-off valves

Factory-installed 230V / 150W crankcase heater for off-cycle oil protection

Built-in INT69B2 electronic module for thermal motor overload protection

Product Image



Technical Specifications

Model	SP4L2500, SP4L250E
Rated power	25HP/18.7KW
Exhaust volume (50Hz/60Hz)	102.9/123.5 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	220KG
Oil Charge	3.7L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	123/201A
Max operating current	43A

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

Frequently Asked Questions

Q1: What electrical insulation testing guidelines should be followed during routine maintenance of this semi hermetically sealed compressor?

Use a 500V megohmmeter to measure motor winding-to-ground insulation resistance, ensuring values remain well above 5 MΩ prior to re-energizing the compressor after extended shutdowns.

Q2: How does the 25 Hp motor handle part-winding starting sequences in large system installations?

Part-winding starting energizes the first set of motor windings to reduce initial inrush current to 123 A before connecting full windings, mitigating power grid voltage dips during startup.

Q3: What structural vibration isolation measures are recommended when mounting this 220 kg unit on a steel rack?

Install factory-specified rubber dampening pads under all mounting feet and use flexible corrugated pipe joints on suction and discharge lines to isolate mechanical resonance.

Q4: What specific temperature sensor placement yields accurate discharge monitoring for deep-freeze operation?

Position the discharge temperature probe directly on the discharge line within 100 mm of the shut-off valve port to ensure fast thermal feedback and prevent oil carbonization.

