



Refcomp SP4L1500 SP4L150E Chiller Reciprocating Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4L1500, SP4L150E
- 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

- Rated Power: 15HP/11.2KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Displacement 50/60Hz: 64.7/77.6 M3/hr
- Oil Charge: 3.7L
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight:
 - Refcomp SP4L1500 reciprocating chiller compressor
 - SP4L150E semi-hermetic refrigeration compressor
 - Reciprocating compressor for industrial chillers



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Product Description

Refcomp SP4L1500 SP4L150E Chiller Reciprocating Refrigeration Compressor

Product Overview

This chiller reciprocating semi-hermetic compressor delivers reliable performance for industrial cooling applications with advanced capacity modulation and robust construction.

Two-Stage Capacity Modulation

Delivering 100% and 50% capacity steps, this compressor dynamically adjusts output to match changing thermal loads and maintain tight fluid temperature control.

High-Displacement Compression

Featuring a 4-cylinder layout delivering up to 77.6 m³/h displacement at 60Hz, optimized internal gas passages minimize pressure drop for efficient cooling.

Robust Housing & Safety Architecture

Built with a heavy-duty casing rated for 28 bar, dynamically balanced crankshafts, and an INT69B2 electronic module that protects against thermal overload.

Flexible Installation Accessories

360° rotatable suction (42 mm) and exhaust (28 mm) shut-off valves

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

Internal suction gas strainer and pressure relief valve

Product Image



Technical Specifications

Model	SP4L1500, SP4L150E
Rated Power	15HP / 11.2KW
Exhaust Volume (50Hz/60Hz)	64.7 / 77.6 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	182KG
Oil Charge	3.7L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	88/146A
Max Operating Current	29A

Model SP		L (Low-Temp Compressor)							
		SP4LF/SP4LN				SP4L			
		600 060E	800 080E	1000 100E	1200 120E	1500 150E	1800 180E	2200 220E	2500 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

What thermal load factors should be evaluated when sizing this chiller reciprocating compressor for industrial process cooling?

Calculate total peak and partial cooling demands, fluid supply and return temperatures, mass flow rates, ambient condensing conditions, and target refrigerant properties before finalizing compressor selection.

How should electrical control panels be configured to protect this chiller reciprocating compressor during sudden voltage drops?

Install dedicated phase-monitoring relays, size circuit contactors for the 29 A maximum operating current, and configure time-delay restarts to prevent motor short-cycling.

What design steps prevent oil entrapment in liquid chiller evaporator circuits during 50% part-load operation?

Size suction piping to maintain minimum gas velocity, install proper oil traps at suction line bases, and ensure oil return sight glass levels stay within normal operating limits.

What procedures apply when replacing the crankcase heater or inspecting electrical terminal connections?

Always isolate main power prior to servicing, verify the 150W heater element resistance, and torque terminal bolts according to factory specs to prevent high-resistance electrical hot spots.