



Refcomp SP4L2200 SP4L220E Semi Hermetic Type Reciprocating Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4L2200, SP4L220E
- 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

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 3.7L
- Displacement 50/60Hz: 86.1/103.3 M3/hr
- Refrigerant: R22, R407C, R134a, R404A, R507
- Rated Power: 22HP/16.4KW
- Highlight: Refcomp SP4L2200 semi hermetic compressor, SP4L220E reciprocating compressor, semi hermetic type compressor with warranty



More Images



Product Description

Refcomp SP4L2200 SP4L220E Semi Hermetic Type Reciprocating Compressor

Product Overview

High-performance semi-hermetic compressor designed for demanding low-temperature applications with reliable cooling output and advanced safety features.

Low-Temperature High Displacement: Delivering a displacement of up to 103.3 m³/h with 100% and 50% step capacity regulation, this semi hermetic type compressor ensures reliable cooling output under heavy low-temperature loads.

Direct Gas Path & Pressure Shell: Designed with direct-flow internal gas channels and a high-strength casing rated for 28 bar, reducing suction pressure losses and optimizing volumetric efficiency.

Balanced Shafting & Safety Design: Built with a dynamically balanced 4-cylinder crankshaft, wear-resistant sleeve bearings, an internal safety relief valve, and an INT69B2 thermal protection module.

Integrated Component Package: Features 360° rotatable suction (54 mm) and exhaust (28 mm) valves, a factory 230V / 150W crankcase heater, and an accessible internal suction filter for this semi hermetic type compressor.

Product Image



Technical Specifications

Model	SP4L2200, SP4L220E
Rated Power	22HP / 16.4KW

Exhaust Volume (50Hz/60Hz)	86.1 / 103.3 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	195 KG
Oil Charge	3.7 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	102 / 170 A
Max Operating Current	39 A

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 procedure ensures proper oil level visibility during continuous low-temperature operation?

A1: Keep the standing oil level between 1/3 and 2/3 of the sight glass during operation, and verify that suction line gas velocity remains sufficient to return oil during 50% capacity step cycles.

Q2: What electrical protection settings apply when starting this semi hermetic type compressor?

A2: Circuit breakers and contactors must handle the 39 A maximum operating current while accommodating starting inrush currents of 102A (Part Winding) or 170A (Direct On Line).

Q3: How does the 360° rotatable valve feature simplify piping connection in commercial refrigeration units?

A3: The rotatable valve design allows installers to adjust line directions freely, avoiding pipe alignment stress and facilitating clean piping to the 54 mm suction and 28 mm exhaust lines.

Q4: What role does the 150W crankcase heater play before starting the system?

A4: The crankcase heater boils off liquid refrigerant dissolved in the lubricant during off-cycles, preventing oil foaming and lubrication breakdown upon compressor startup.

 **Shenzhen Coolstart Refrigeration Equipment Co., Ltd**

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