



Refcomp SP4LF1000 SP4LF100E Semi Hermetic Reciprocating Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4LF1000, SP4LF100E
- 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

- Refrigerant: R22, R407C, R134a, R404A, R507
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Lubrication Method: Pressure Lubrication
- Rated Power: 10HP/7.5KW
- Oil Charge: 2.6L
- Displacement 50/60Hz: 49/58.8 M3/hr
- Highlight: Refcomp SP4LF1000 semi hermetic compressor , SP4LF100E reciprocating refrigeration compressor , semi hermetic compressor with warranty



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Product Description

Refcomp SP4LF1000 SP4LF100E Semi Hermetic Reciprocating Refrigeration Compressor

Product Features

Low-Temperature Volumetric Efficiency

Featuring a displacement of up to 58.8 m³/h at 60Hz, this semi hermetic reciprocating refrigeration compressor maintains steady mass flow and high performance in deep-freeze applications.

Optimized Direct Suction Channel

Built with direct-path suction gas channels to lower internal pressure drop and minimize gas heating prior to compression, maximizing efficiency.

Wide Power Network Adaptability

Supports dual-frequency operation across 400V/50Hz and 460V/60Hz grids, ensuring seamless global integration for this semi hermetic reciprocating refrigeration compressor.

Integrated Field Maintenance Package

- Dual 100% and 50% step capacity regulation
- 360° adjustable suction (35 mm) and discharge (28 mm) valves
- Factory 230V / 220W crankcase heater
- Built-in INT69B2 motor thermal protection module

Product Image



Technical Specifications

Model	SP4LF1000, SP4LF100E
Rated Power	10HP / 7.5KW
Exhaust Volume (50Hz/60Hz)	49 / 58.8 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	144 KG
Oil Charge	2.6 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	71 / 110 A
Max Operating Current	24 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 are the thermal operating envelope limits for this semi hermetic reciprocating refrigeration compressor?

A1: Discharge gas temperature must not exceed 120°C, and suction superheat should be maintained between 5K and 10K to avoid thermal degradation during extreme low-evaporating cycles.

Q2: What lubricant volume and level requirements apply to SP4LF1000 (SP4LF100E)?

A2: The unit requires a 2.6 dm³ oil charge, with the standing oil level maintained between 1/3 and 2/3 of the oil sight glass during active operation.

Q3: How does implementing a pump-down shutdown cycle benefit low-temperature system reliability?

A3: A pump-down cycle evacuates suction line refrigerant prior to compressor stop, preventing refrigerant migration into the oil sump and eliminating liquid knock on subsequent startups.

Q4: What vacuum evacuation level is required prior to initial refrigerant charging?

A4: Evacuate both high and low sides of the system down to at least 0.5 mbar (500 microns) to ensure non-condensable gases and moisture are completely removed.