



Refcomp SP4LF0800 SP4LF080E Semi Sealed Reciprocating Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4LF0800, SP4LF080E
- 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
- Refrigerant: R22, R407C, R134a, R404A, R507
- Rated Power: 8HP/5.9KW
- Displacement 50/60Hz: 42/50.4 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Lubrication Method: Pressure Lubrication
- Highlight: Refcomp SP4LF0800 semi sealed compressor, SP4LF080E reciprocating refrigeration compressor, semi hermetic compressor with warranty



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Product Description

Refcomp SP4LF0800 SP4LF080E Semi Sealed Reciprocating Refrigeration Compressor

Product Overview

- Low-Temperature Output & Load Adaptation**
Delivering a displacement of up to 50.4 m³/h with 100% and 50% step regulation, this semi sealed reciprocating compressor provides efficient cooling output adapted to low-temperature freezer requirements.
- Heavy-Duty Internal Drive Construction**
Built with a dynamically balanced 4-cylinder layout, wear-resistant sleeve bearings, and an internal safety valve to ensure stable running and low mechanical stress during continuous operation.
- Multi-Refrigerant & Dual-Frequency Versatility**
Engineered to operate seamlessly across 400V/50Hz and 460V/60Hz power grids with standard low-temp refrigerants, allowing this reciprocating compressor to serve diverse international system designs.
- Protection & Service Access Package**
 - Factory 230V / 220W crankcase heater to protect oil quality during standby
 - INT69B2 motor thermal overload protection module
 - 360° rotatable suction (35 mm) and exhaust (28 mm) shut-off valves
 - Accessible high-density internal suction gas filter

Product Image



Technical Specifications

Model	SP4LF0800, SP4LF080E
Rated power	8HP/5.9KW

Exhaust volume (50Hz/60Hz)	42/50.4 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	139KG
Oil Charge	2.6L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	54/88A
Max operating current	19A

Model SP		L (Low-Temp Compressor)							
		SP4LF/SP4LN				SP4L			
		600	800	1000	1200	1500	1800	2200	2500
Rated power	Hp/kW	060E	080E	100E	120E	150E	180E	220E	250E
Exhaust volume 50/60Hz	m³/hr	6/4.5	8/5.9	10/7.5	12/8.9	15/11.2	18/13.3	22/16.4	25/18.7
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

How does suction gas superheat impact the operation of this semi sealed reciprocating compressor in low-temperature systems?

Maintaining appropriate suction superheat (typically 5-10 K) prevents liquid refrigerant from entering the cylinders while avoiding excessive discharge temperatures that degrade lubricant quality.

What is the recommended minimum runtime when cycling between 100% and 50% capacity steps?

To prevent rapid solenoid valve wear and maintain stable oil return, allow at least 3 to 5 minutes of continuous operation at each capacity step before cycling.

Why is oil differential pressure monitoring important for model SP4LF0800?

Monitoring oil differential pressure ensures proper lubrication reaches the sleeve bearings and crankshaft journals, preventing premature mechanical wear under heavy low-temperature loads.

What freeze-protection measures are required if the refrigeration unit is shut down in sub-zero ambient conditions?

Keep the 220W crankcase heater continuously energized to prevent refrigerant migration into the oil sump, and drain any ambient water-cooling jackets if applicable.



