Refcomp SP2L0400 SP2L040E 4HP 3KW R507 Semi-Hermetic Type Compressor for Freezing Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP2L0400,SP2L040E
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 10000Pcs/Year

Product Specification

- Rated Power: 4HP/3KW
- Oil Charge: 1.8L
- Refrigerant: R22, R407C, R134a, R404A, R507
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement 50/60Hz: 21/25.7 M3/hr
- Highlight: **SP2L0400 semi-hermetic compressor**, **4HP 3KW R507 compressor**, **semi-hermetic compressor for freezing room**

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Product Description

Product Overview

The Refcomp SP2L0400 / SP2L040E is a 4HP (3KW) semi-hermetic reciprocating compressor engineered for low-temperature refrigeration, including freezing room applications. It is compatible with R22, R407C, R134a, R404A and R507 refrigerants, and is built around an optimized internal structure that supports stable, efficient operation under demanding cold-storage conditions.

Key Design Features

Optimized Compressor Body & Gas Flow

Optimized internal gas passages help reduce intake resistance and exhaust flow losses. The compact integrated structure brings key components together, simplifying the compressor layout while supporting smoother refrigerant flow in low-temperature applications.

Built-in High-Density Suction Filter

The high-density suction filter captures impurities from refrigerant gas before they enter the compression chamber, helping protect the motor and internal components from contamination. Its external installation makes inspection and replacement more convenient, reducing the complexity of routine maintenance.

Precision Sliding & Thrust Bearings

The combination of sliding and thrust bearings accommodates both radial and axial loads during compressor operation. High-precision fitting and effective lubrication help reduce friction, vibration and operating noise, supporting smoother mechanical operation and reduced component wear.

Flexible Motor Connection

The motor supports delta and star connection configurations, giving installers flexibility to match the compressor with the specified three-phase power supply. This makes electrical integration more convenient and helps ensure the motor is correctly configured before commissioning.

Product Image

Technical Specification

Model	SP2L0400, SP2L040E
Rated Power	4HP / 3KW
Exhaust Volume (50Hz / 60Hz)	21 / 25.7 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	85KG
Oil Charge	1.8L
Voltage	△230V/3/50Hz, Y400V/3/50Hz
Starting Current PW / DOL	- / 49A
Max Operating Current	10A

Dimension Drawing

Model SP		L (Low-Temp Compressor)			
		SP2L			
		300	400	500	600
		030E	040E	050E	060E
Rated power	Hp/kW	3/2	4/3	5/3.7	6/4.4
Exhaust volume 50/60Hz	m³/hr	17.5/21	21/25.7	24.5/29.4	28/33.6
Cyinders		2	2	2	2
Weight	Kg	84	85	85	86
Oil Charge	dm³	1.8	1.8	1.8	1.8
Crankcase heater		230V–120W–PTC 50/60Hz			
Exhaust pipe inner diameter Φ	mm/inches	16/5/8"	16/5/8"	22/7/8"	22/7/8"
Suction pipe inner diameter Φ	mm/inches	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"
Energy regulation		–	–	–	–
Standard motor		△230V/3/50Hz Y400V/3/50Hz			
Starting current PW/DOL	A	–/35	–/49	–/54	–/60
Starting current Y/D	A	35/–	49/–	54/–	60/–
Max operating current	A	9	10	12	34

Frequently Asked Questions

Q1: How do I select the right SP2L0400 for my refrigeration system?

When selecting a semi-hermetic compressor, consider the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions and power supply. The SP2L0400 is a low-temperature reciprocating compressor, so its operating conditions should be checked against the actual refrigeration application.

Q2: What should I consider when connecting the compressor motor?

The motor supports delta and star connection configurations. Before installation, check the motor nameplate, wiring diagram and available site power supply to ensure the correct connection is selected.

Q3: How does the suction filter help protect the compressor?

The built-in filter captures impurities before they enter the compression chamber, helping keep internal components cleaner. This is particularly important for a semi-hermetic piston compressor, where maintaining clean refrigerant flow helps protect the internal mechanical assembly.

Q4: What should operators check during routine compressor maintenance?

Pay attention to lubrication condition, abnormal mechanical noise, vibration and suction filter cleanliness. Early inspection of these conditions helps identify potential wear or contamination before they develop into more serious operating problems.

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