Refcomp SP2L0300 SP2L030E 3HP 2KW Semi-Hermetic Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP2L0300,SP2L030E
- 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

- Displacement 50/60Hz: 17.5/21 M3/hr
- Rated Power: 3HP/2KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 1.8L
- Highlight: **SP2L030E 3HP semi-hermetic compressor**, **2KW semi-hermetic refrigeration compressor**, **Refcomp SP2L0300 compressor 3HP**

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Product Description

Product Overview

The Refcomp SP2L0300 / SP2L030E is a 3HP (2KW) semi-hermetic reciprocating refrigeration compressor engineered for low-temperature applications. It combines integrated safety protection, a smooth-running crankshaft and connecting-rod assembly, and flexible rotatable shut-off valves to deliver dependable performance in demanding refrigeration systems.

Integrated Safety Valve Protection

The SP2L0300 semi-hermetic refrigeration compressor features an internal safety valve connecting the high- and low-pressure sides. Its precise opening and reset help maintain internal pressure within the intended safety range, providing additional protection against abnormal pressure conditions.

Smooth Crankshaft & Connecting-Rod Design

For this low-temperature reciprocating compressor, RefComp's crankshaft design promotes smooth mechanical movement, effective lubrication and reduced vibration. A wear-resistant bushing at the connecting rod's small end helps minimize friction and mechanical wear, supporting reliable operation over time.

Flexible 360° Rotatable Shut-Off Valves

The suction and discharge shut-off valves can rotate through 360°, allowing installers to adjust piping orientation according to actual installation requirements. This flexibility simplifies pipe alignment and makes installation more convenient, especially where equipment space is limited.

INT69B2 Motor Protection

The built-in INT69B2 protection module helps protect the motor against burnout. This dedicated protection feature adds an important safeguard against abnormal operating conditions, helping reduce the risk of motor damage and unexpected downtime.

Product Image

Technical Specification

Model	SP2L0300, SP2L030E
Rated power	3HP / 2KW
Exhaust volume (50Hz / 60Hz)	17.5 / 21 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	84KG
Oil Charge	1.8L
Voltage	△230V/3/50Hz, Y400V/3/50Hz
Starting current PW / DOL	- / 35A
Max operating current	9A

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 SP2L0300 for a low-temperature refrigeration system?

When selecting a semi-hermetic refrigeration compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions and power supply. The SP2L0300 is a two-cylinder semi-hermetic piston compressor, and its suitability should be verified against the actual operating conditions.

Q2: What should be considered when installing the suction and discharge piping?

Check the pipe dimensions and connection directions against the refrigeration system design. The rotatable shut-off valves provide greater flexibility for pipe alignment, helping simplify installation and avoid unnecessary restrictions in piping layout.

Q3: What is the purpose of the PTC crankcase heater?

The built-in PTC crankcase heater helps maintain crankcase temperature during shutdown, reducing the risk of refrigerant migrating into the lubricating oil. Check its electrical connection and operation during installation and commissioning.

Q4: What should I do if the INT69B2 motor protection module trips?

If the semi-hermetic refrigeration compressor stops following a protection trip, inspect the power supply, phase condition, motor wiring and operating conditions. Identify and correct the underlying problem before restarting the compressor.

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