Refcomp SP2L0500 SP2L050E 5HP 3.7KW Semi-Hermetically Sealed Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP2L0500,SP2L050E
- 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

- Oil Charge: 1.8L
- Refrigerant: R22, R407C, R134a, R404A, R507
- Displacement 50/60Hz: 24.5/29.4 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 5HP/3.7KW
- Highlight: **SP2L050E 5HP semi-hermetic compressor**, **3.7KW semi-hermetic reciprocating compressor** , **Refcomp SP2L0500 sealed compressor**

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Product Description

Product Overview

The Refcomp SP2L0500 / SP2L050E is a 5HP (3.7kW) semi-hermetically sealed reciprocating compressor engineered for dependable refrigeration performance. Its mechanical design, bearing arrangement and integrated protection systems work together to support stable operation, reduced wear and long service life in demanding cooling applications.

Key Design Features

Optimized Crankshaft & Connecting-Rod Design

The SP2L0500 semi-hermetically sealed compressor features RefComp's specially developed crankshaft design, supporting 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, contributing to reliable operation.

Reliable Bearing Arrangement

The combination of sliding and thrust bearings accommodates both radial and axial loads during operation. High-precision fitting and effective lubrication help reduce friction and operating noise, supporting smoother movement and reducing wear on critical mechanical components.

Integrated Safety Valve Protection

The internal safety valve connects the high- and low-pressure sides, providing protection against abnormal internal pressure conditions. Its precise opening and automatic reset help maintain safe compressor operation and reduce the risk associated with excessive pressure.

INT69B2 Motor Protection

The integrated INT69B2 protection module helps protect the motor against burnout. This dedicated protection system provides an additional safeguard against abnormal operating conditions, helping reduce the risk of motor damage and unexpected equipment downtime.

Product Image

Technical Specifications

Model	SP2L0500, SP2L050E
Rated Power	5HP / 3.7kW
Exhaust Volume (50Hz / 60Hz)	24.5 / 29.4 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	85 kg
Oil Charge	1.8 L
Voltage	△230V/3/50Hz, Y400V/3/50Hz
Starting Current (PW / DOL)	- / 54A
Max Operating Current	12A

FAQ

Q1: How do I select the right SP2L0500 for my refrigeration system?

When selecting a semi-hermetically sealed compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions and power supply. As a low-temperature reciprocating compressor, the SP2L0500 should be matched to the actual system operating conditions.

Q2: What should be considered when installing the compressor?

Check the foundation, refrigerant piping connections, electrical wiring and crankcase heater before commissioning. Proper installation helps minimize unnecessary vibration and supports stable operation of the semi-hermetic reciprocating compressor.

Q3: How does the INT69B2 protection module help protect the compressor?

The protection module monitors the motor protection circuit and helps prevent motor burnout under abnormal conditions. If protection is triggered, identify the underlying electrical or operating problem before restarting the compressor.

Q4: What maintenance practices help extend compressor service life?

Regularly inspect lubrication conditions, operating noise, vibration and safety protection components. Keeping the mechanical assembly properly lubricated and identifying abnormal conditions early helps reduce unnecessary component wear.

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