



Refcomp SP2H0500 SP2H050E 5HP 3.7KW Semi-Hermetic Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP2H0500, SP2H050E
- 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: 5HP/3.7KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Oil Charge: 1.8L
- Displacement 50/60Hz: 17.5/21 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **SP2H0500 5HP semi-hermetic compressor, SP2H050E 3.7KW reciprocating compressor, semi-hermetic compressor with warranty**



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Product Description

Product Overview

The Refcomp SP2H0500 / SP2H050E is a 5HP (3.7kW) semi-hermetic reciprocating compressor engineered for reliable refrigeration performance. It combines a compact body, optimized gas flow paths, and integrated protection components to deliver stable operation across a range of refrigerants and operating conditions.

Key Design Features

Compact Body & Optimized Gas Flow

The SP2H0500 semi-hermetic reciprocating compressor features a 28 bar working pressure. Its optimized gas passages help reduce intake resistance and exhaust flow losses. The compact body integrates the filter, shut-off valve and temperature sensor.

Crankshaft & Connecting-Rod Design

RefComp's original crankshaft design supports smooth operation, low vibration and effective lubrication. This semi-hermetic piston compressor also features a wear-resistant bushing at the connecting rod's small end, helping reduce wear during operation.

Built-in Suction Filtration

The high-density suction filter removes impurities from refrigerant gas before they enter the compressor, helping protect the motor. Its external mounting makes inspection and replacement more convenient.

INT69B2 Motor Protection

The integrated INT69B2 protection module provides motor protection against burnout, adding an important safety component to the compressor's electrical protection system.

Product Image



Technical Specification

Model	SP2H0500, SP2H050E
Rated power	5HP / 3.7KW
Exhaust volume (50Hz / 60Hz)	17.5 / 21 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	86KG
Oil Charge	1.8L
Voltage	Δ230V/3/50Hz, Y400V/3/50Hz
Starting current PW / DOL	- / 54A
Max operating current	12A

Model SP		H (High-Temp Compressor)			
		SP2H			
		500	600	800	900
		050E	060E	080E	090E
Rated power	Hp/kW	5/3.7	6/4.4	8/5.9	9/6.6
Exhaust volume 50/60Hz	m³/hr	17.5/21	21/25.7	24.5/29.4	28/33.6
Cylinders		2	2	2	2
Weight	Kg	86	87	87	91
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		Δ230V/3/50Hz Y400V/3/50Hz			
Starting current PW/DOL	A	—/54	—/60	—/85	—/97
Starting current Y/D	A	54/—	60/—	85/—	97/—
Max operating current	A	12	14	16	20

Frequently Asked Questions

Q1: What information is needed to confirm the SP2H0500 is suitable for my refrigeration system?

To assess whether this semi-hermetic reciprocating compressor is suitable, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, power supply and application details. This reciprocating refrigeration compressor should be selected according to the actual operating conditions.

Q2: Which power supply options are available for the SP2H0500?

The standard motor specifications list Δ230V/3-phase/50Hz and Y400V/3-phase/50Hz. Confirm the available site power supply and the corresponding motor connection before commissioning.

Q3: What should be checked before commissioning the compressor?

Before commissioning the semi-hermetic reciprocating compressor, check the refrigerant piping connections, system cleanliness, oil charge and motor protection wiring. Make sure the selected motor connection matches the available power supply.

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

Check the power supply, phase condition, motor wiring and operating conditions. Identify and correct the cause of the protection trip before restarting the compressor.



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