



Refcomp SP2H0800 SP2H080E 8HP 5.9KW R22 Reciprocating Semi-Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP2H0800, SP2H080E
- 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

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement: 24.5/29.4 M3/hr
- Oil Charge: 1.8L
- Refrigerant: R22, R407C, R134a, R404A, R507
- Rated Power: 8HP/5.9KW
- Highlight: **SP2H0800 8HP semi-hermetic compressor, SP2H080E R22 reciprocating compressor, 5.9KW semi-hermetic compressor**



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Product Description

Product Overview

The Refcomp SP2H0800 / SP2H080E is an 8 HP (5.9 kW) reciprocating semi-hermetic compressor engineered for reliable performance in commercial and industrial refrigeration systems. Its optimized internal gas passages, flexible connection options, and multi-refrigerant compatibility make it a versatile choice for a wide range of cooling applications.

Key Features

Optimized Compressor Body & Gas Flow

Optimized internal gas passages reduce intake resistance and exhaust flow losses. The compact integrated structure simplifies equipment layout while supporting efficient refrigerant flow through the compressor.

Flexible 360° Shut-Off Valve

The suction and discharge shut-off valves rotate through a full 360°, allowing flexible piping connections to suit installation requirements. This makes pipe routing easier and provides greater convenience when arranging the refrigeration system.

Built-in High-Density Suction Filter

The high-density suction filter captures impurities before they enter the compression chamber, helping protect the motor and internal components from contamination. Its external mounting also makes inspection and replacement more convenient, simplifying routine maintenance.

Flexible Motor Starting & Refrigerant Compatibility

The Refcomp 8 HP reciprocating compressor supports partial-winding and star-delta starting options, helping reduce starting current. Multiple motor voltage and frequency configurations provide greater flexibility for regional power requirements, while specially selected materials support compatibility with a range of refrigerants.

Product Image



Technical Specification

Model	SP2H0800, SP2H080E
Rated power	8 HP / 5.9 kW
Exhaust volume (50/60 Hz)	24.5 / 29.4 m³/hr
Refrigerant type	R22, R407C, R134a, R404A, R507
Weight	87 kg
Oil charge	1.8 L
Voltage	△230V/3/50Hz, Y400V/3/50Hz
Starting current PW/DOL	- / 85 A
Max operating current	16 A

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		△230V/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 should I consider when selecting the SP2H0800 for my refrigeration system?

When selecting this reciprocating semi-hermetic compressor, consider the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions, and power supply. Proper selection helps ensure the compressor matches the actual system requirements.

Q2: Which refrigerants can the SP2H0800 work with?

The SP-series documentation lists R22, R407C, R134a, R404A, and R507 as refrigerant options. If you require an R404A semi-hermetic reciprocating compressor, confirm the specific model configuration and operating conditions before ordering.

Q3: What are the advantages of the available motor starting methods?

Partial-winding and star-delta starting help reduce motor starting current, which is beneficial for managing the electrical load during startup. Before commissioning the semi-hermetic piston compressor, confirm that the selected starting method matches the motor configuration and site power supply.

Q4: How does the suction filter help with compressor maintenance?

The built-in filter helps prevent impurities from entering the compression chamber and protects internal components. Its accessible external installation makes routine inspection and replacement easier, helping simplify maintenance work.



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