



Refcomp SP4HF2000 SP4HF200E 20HP AC Semi-Hermetic Compressor for Refrigeration

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4HF2000, SP4HF200E
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 100000Pcs/Year



Product Specification

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R134a, R404A, R507
- Displacement 50/60Hz: 56/67.2 M3/hr
- Rated Power: 20HP/14.9KW
- Oil Lubrication Method: Pressure Lubrication
- Oil Charge: 2.6L
- Highlight: 15HP reciprocating chiller compressor, SP4HF1500 air conditioning compressor, semi hermetic compressor with warranty



More Images



Product Description

Refcomp SP4HF2000 SP4HF200E 20HP AC Semi-Hermetic Compressor for Refrigeration

Product Overview

The SP4HF2000(SP4HF200E) semi-hermetic compressor is built for high-capacity commercial refrigeration and industrial chiller systems requiring dependable thermodynamic performance.

Key Features

- **Integrated Motor Protection Module:** Equipped with an advanced INT6982 protector module that actively monitors winding temperature to shield the internal motor against thermal overload and phase irregularities.
- **Multi-Angle Shut-Off Valves:** Suction and discharge shut-off valves feature a fully rotatable mounting design that simplifies alignment with surrounding refrigeration lines.
- **High-Capacity Internal Suction Strainer:** High-density filter screen positioned at the housing inlet traps foreign particles before they enter the motor chamber.
- **Internal Overpressure Safety Valve:** Built-in pressure relief valve connects suction and discharge chambers to prevent structural damage from localized overpressure conditions.

Application Areas

Commercial Water Chillers: Suitable for centralized liquid chillers and HVAC air-conditioning systems operating under high-temperature conditions.

Industrial Process Cooling: Designed for industrial fluid chillers and process cooling systems requiring continuous, heavy-duty operation.

Cold Storage Warehouses: Ideal for medium-temperature food holding rooms, agricultural pre-cooling facilities, and cold chain distribution centers.

Supermarket Parallel Racks: Applicable to multi-compressor parallel rack systems feeding commercial display cases and walk-in coolers.

Product Image



Technical Specifications

Model	SP4HF2000, SP4HF200E
Rated Power	20HP / 14.9KW
Exhaust Volume (50Hz/60Hz)	56 / 67.2 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	155KG
Oil Charge	2.6L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	106/168A
Max Operating Current	40A

Model SP		H (High-Temp Compressor)							
		SP4HF/SP4HN				SP4H			
		1000	1200	1500	2000	2200	2500	3000	3500
		100E	120E	150E	200E	220E	250E	300E	350E
Rated power	Hp/kW	10/7.5	12/8.9	15/11.2	20/14.9	22/16.4	25/18.7	30/22.4	35/26.1
Exhaust volume	m³/hr	35/42	42/50.4	49/58.8	56/67.2	64.7/77.6	75/90	86.1/103.3	102.9/123.5
Cylinders		4	4	4	4	4	4	4	4
Weight	Kg	143	146	152	155	193	206	209	238
Oil Charge	dm³	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7
Crankcase heater		230V~220W-50/60Hz				230V~150W-50/60Hz			
Exhaust pipe inner diameter Φ	mm/inches	22/7/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	28/1-1/8"	35/1-3/8"
Suction pipe inner diameter Φ	mm/inches	28/1-1/8"	35/1-3/8"	42/1-5/8"	42/1-5/8"	42/1-5/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%
Standard motor		400V/3/50Hz 460V/3/60Hz PW				400V/3/50Hz ~460V/3/60Hz PW			
Starting current PW/DOL	A	71/110	75/125	86/144	106/168	102/170	123/201	150/243	178/290
Starting current Y/D	A	-	-	-	-	-	-	-	-
Max operating current	A	24	27	33	40	37	43	52	56

Company Introduction

Coolstart is a modern, large-scale refrigeration enterprise with over 20 years of technical expertise in the cooling industry. Specializing in reciprocating, scroll, screw, semi-hermetic, and rotary compressors, as well as cold storage and ice-making equipment, Coolstart delivers full OEM/ODM customization services to global partners.

Our products are exported to numerous international markets, including Russia, the United States, the United Kingdom, the United Arab Emirates, and Saudi Arabia, earning widespread recognition for engineering quality and cost-effectiveness.



Frequently Asked Questions

How do I verify whether the SP4HF2000 matches my chiller design?

Evaluate required cooling capacity, operating temperatures, and refrigerant requirements against the compressor displacement rate.

What installation precautions should be taken when retrofitting this compressor?

Confirm line connection diameters, check oil compatibility with the refrigerant, and verify electrical panel capacity against the motor starting current.

What routine maintenance is recommended for the internal filter and oil system?

Inspect the internal suction strainer after initial system commissioning and check oil sight glass levels regularly.

What warranty coverage does Coolstart offer for semi-hermetic units?

Coolstart provides a standard one-year warranty across all compressor product lines covering manufacturing defects under standard operating conditions.

What details are required to obtain a formal quotation from Coolstart?

Please provide the required model, quantity, refrigerant type, power voltage, operating conditions, and specific project requirements.

Request a Technical Quotation

Coolstart provides professional refrigeration technical support and competitive wholesale pricing for global B2B buyers. Contact our engineering team today to receive a formal technical quotation within 8 hours.

Please specify your required **Model, Quantity, Refrigerant, Voltage/Frequency, Operating Conditions, and Project Requirements** when submitting your inquiry.



