



Refcomp SP4HN2000 SP4HN200E R134a High Temperature Semi Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4HN2000, SP4HN200E
- 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

- Rated Power: 20HP/14.9KW
- Displacement 50/60Hz: 56/67.2 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R134a, R404A, R507
- Oil Charge: 2.6L
- Oil Lubrication Method: Splash Lubrication
- Highlight: R134a semi hermetic compressor, high temperature semi hermetic compressor, SP4HN2000 semi hermetic compressor



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Product Description

Refcomp SP4HN2000 SP4HN200E R134a High Temperature Semi Hermetic Compressor

The SP4HN2000 semi-hermetic compressor is a 4-cylinder reciprocating unit designed for high-capacity commercial liquid chilling and refrigeration systems.

Key Features

Integrated INT6982 Motor Protection: Equipped with an advanced INT6982 protection module that continuously monitors winding temperature to safeguard the internal motor against thermal overload, phase loss, and electrical abnormalities during heavy-duty operation.

Low-Loss Body Structure: Features an optimized gas passage layout that reduces internal suction pressure drop and flow turbulence. The compact housing integrates the suction strainer and service valves into a space-saving design ideal for multi-unit rack integration.

360° Rotatable Shut-Off Valves: The suction and discharge shut-off valves feature a fully rotatable mounting layout that allows simple alignment with existing refrigeration piping, simplifying field mounting and reducing mechanical strain on pipe joints.

Internal Pressure Safety Valve: Built with a high-precision internal relief valve connecting high and low-pressure chambers, automatically equalizing pressure during temporary overpressure events to protect internal components from mechanical damage.

Technical Specifications

Application Areas

Commercial Water Chillers: Suitable for central HVAC chillers, packaged liquid cooling units, and commercial air-conditioning systems.

Industrial Process Cooling: Designed for industrial process fluid chillers requiring continuous duty and dependable thermal regulation.

Cold Storage Warehouses: Ideal for medium-temperature food storage rooms, agricultural facilities, and cold chain logistics centers.

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

Product Image



Technical Specifications

Model	SP4HN2000, SP4HN200E
Rated power	20HP/11.2KW
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	16/168A
Max operating current	40A

Model SP		H (High-Temp Compressor)							
		SP4HF/SP4HN				SP4H			
		1000 100E	1200 120E	1500 150E	2000 200E	2200 220E	2500 250E	3000 300E	3500 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 50/60Hz	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

Q1: How do I confirm if the SP4HN2000 model matches my chiller cooling capacity requirements?

A1: You can evaluate model suitability by matching your required cooling load, target operating temperatures, and refrigerant type against the compressor displacement rate. Providing target working conditions allows engineering teams to confirm exact sizing.

Q2: What key installation conditions should be checked before starting the compressor?

A2: Before initial startup, verify line connection diameters, inspect mounting pad leveling, check crankcase heater operation, and confirm that power supply panel capacity matches motor starting current requirements.

Q3: How does the internal protection module protect the motor during continuous operation?

A3: The module continuously monitors winding temperature and disconnects the control circuit during thermal spikes or electrical phase irregularities, preventing motor burnout during adverse operating conditions.

Q4: What warranty terms does Coolstart provide for semi-hermetic compressors?

A4: Coolstart provides a standard one-year warranty across all compressor product lines, covering manufacturing and material defects under standard operating conditions.

Q5: What information is needed to receive an accurate quotation for this model?

A5: Please provide your required compressor model, order quantity, target refrigerant, voltage specification, operating temperature conditions, and project requirements to receive a detailed quote within eight hours.

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.

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