



Refcomp SP4HN1000 SP4HN100E Semi-Hermetic Refrigeration Compressor for Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4HN1000, SP4HN100E
- 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

- Refrigerant: R22, R407C, R134a, R404A, R507
- Oil Lubrication Method: Splash Lubrication
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 10HP/7.5KW
- Oil Charge: 2.6L
- Displacement 50/60Hz: 35/42 M3/hr
- Highlight: Refcomp SP4HN1000 cold room compressor, SP4HN100E semi-hermetic refrigeration compressor, semi-hermetic compressor for cold storage



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Product Description

Refcomp SP4HN1000 SP4HN100E Semi-Hermetic Refrigeration Compressor for Cold Room

The SP4HN1000 semi-hermetic refrigeration compressor is a 4-cylinder unit engineered for commercial HVAC liquid chilling and medium-to-high temperature cooling systems.

Key Features

Optimized Low-Loss Gas Passage

Featuring an optimized internal flow path and integrated valve plate, this semi-hermetic refrigeration compressor reduces pressure drop and minimizes flow losses during gas intake. The streamlined housing structure saves valuable installation space inside chiller frames and multi-compressor racks.

Flexible 2-Stage Energy Regulation

Equipped with a step capacity control mechanism, the compressor switches easily between full capacity and partial output. This control allows precise output matching under changing system loads, reducing energy consumption during off-peak operation.

Internal Overpressure Safety Relief

A high-precision internal safety valve connects the high and low-pressure chambers to guard against pressure surges. The valve automatically opens to equalize internal pressure whenever safe operational limits are exceeded, then reseats securely to protect critical components.

Accessible Suction Filter System

This semi-hermetic refrigeration compressor incorporates an internal high-density suction strainer that filters out solid impurities before gas reaches the motor chamber. Located at the housing inlet, the filter element can be inspected and cleaned during routine service without removing main suction piping.

Application Areas

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

Cold Storage Warehouses - Ideal for medium-temperature food holding facilities, agricultural post-harvest storage, and distribution centers.

Process Fluid Cooling - Designed for industrial fluid cooling equipment requiring continuous operation and precise temperature control.

Supermarket Parallel Racks - Applicable to multi-compressor rack configurations feeding commercial display cases and cold rooms.

Product Image



Technical Specifications

Model	SP4HN1000, SP4HN100E
Rated power	10HP/7.5KW
Exhaust volume (50Hz/60Hz)	35/42 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	143KG
Oil Charge	2.6L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	71/110A
Max operating current	24A

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 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

How do I verify whether the SP4HN1000 model meets my system cooling load?

Evaluate required capacity, operating temperature range, and refrigerant type against the compressor displacement rate. Providing target working conditions allows engineering teams to verify exact sizing.

What key installation checks should be performed when mounting this unit?

Confirm line connection diameters, inspect mounting pad leveling, and verify electrical control panel capacity against the motor starting current.

How does the internal suction filter protect the motor during commissioning?

The high-density filter screen traps piping debris and contaminants carried by suction gas before entering the motor chamber, preventing mechanical damage during early operation.

What warranty terms 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 specify your required model, order quantity, preferred refrigerant, voltage specification, operating conditions, and project requirements

to receive a 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.



86-13922880636



info@coolstartcn.com



coldroomunit.com

Room 1801, Building 1, Kangli city, No. 66 Pingji Road, Longgang District, Shenzhen, Guangdong,China