



Refcomp SP4HN1500 SP4HN150E 460V R22 Semi Hermetic Cold Room Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4HN1500, SP4HN150E
- 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
- Rated Power: 15HP/11.2KW
- Oil Charge: 2.6L
- Oil Lubrication Method: Splash Lubrication
- Displacement 50/60Hz: 49/58.8 M3/hr
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight: 460V R22 semi hermetic compressor, SP4HN1500 cold room compressor, Refcomp semi hermetic compressor with warranty



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Product Description

Refcomp SP4HN1500 SP4HN150E 460V R22 Semi Hermetic Cold Room Compressor

The SP4HN1500 cold room compressor is a 4-cylinder semi-hermetic reciprocating unit designed for reliable performance in commercial cold storage and industrial chilling applications.

Flexible Capacity Regulation (100% / 50%)

Equipped with step energy regulation capabilities, this cold room compressor allows operators to toggle between 100% and 50% displacement output. This flexible load matching optimizes energy consumption during partial cooling demand and fluctuating thermal loads in refrigerated facilities.

Durable Bearing System Construction

Built with high-precision sliding bearings and integrated thrust washers, the bearing mechanism absorbs significant radial and axial forces. Supported by a continuous lubrication film, it delivers outstanding operational stability and extended operational lifespan.

360° Rotatable Shut-Off Valves

The suction and discharge shut-off valve assembly can be rotated 360 degrees to align effortlessly with existing piping layouts. This rotatable design simplifies field positioning, minimizes pipe stress, and reduces installation overhead for equipment builders.

Low-Loss Housing & Streamlined Gas Path

Featuring an optimized gas channel layout, this cold room compressor reduces internal suction pressure drop and flow turbulence. The compact housing integrates the suction strainer and service valves into a space-saving structure suitable for tight rack frames.

Technical Specifications

Application Areas

Commercial Cold Rooms - Ideal for walk-in coolers, food processing holding facilities, and agricultural post-harvest cold storage rooms.

Process Fluid Cooling - Suitable for industrial fluid chilling equipment requiring steady operating temperatures and high reliability.

HVAC Water Chillers - Applicable to commercial air conditioning chillers and central liquid cooling systems.

Parallel Compressor Racks - Designed for multi-compressor parallel rack configurations in supermarkets and distribution centers.

Product Image



Technical Specifications

Model	SP4HN1500, SP4HN150E
Rated power	15HP/11.2KW
Exhaust volume (50Hz/60Hz)	49/58.8 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	152KG
Oil Charge	2.6L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	86/144A
Max operating current	33A

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

How do I select the proper model for my cold room system?

Evaluate required cooling capacity, target evaporating and condensing temperatures, and refrigerant type against the compressor displacement rate. Providing exact working conditions allows engineering teams to confirm exact model sizing.

What precautions should be taken when retrofitting this compressor into existing refrigeration equipment?

Confirm line connection diameters, inspect mounting pad leveling, verify refrigerant compatibility, and check electrical panel capacity against motor starting current requirements.

How does step energy regulation benefit cold storage room operations?

Step regulation adjusts compressor output to match changing thermal loads, reducing unnecessary motor cycling and lowering overall power consumption during low-load periods.

What warranty coverage does Coolstart provide for semi-hermetic compressors?

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

What information is needed to obtain a formal technical quote?

Please specify your required model, order quantity, preferred refrigerant, voltage specification, operating 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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