



Refcomp SP4H3000 SP4H300E High Temperature Semi Sealed Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4H3000, SP4H300E
- 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
- Oil Charge: 3.7L
- Displacement 50/60Hz: 86.1/103.3 M3/hr
- Rated Power: 30HP/22.4KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight: **Refcomp SP4H3000 high temperature compressor, SP4H300E semi sealed compressor, semi hermetic compressor with warranty**



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Product Description

Refcomp SP4H3000 SP4H300E High Temperature Semi Sealed Compressor

Product Overview

High-performance semi-sealed compressor engineered for demanding industrial refrigeration applications with advanced features for reliability and efficiency.

- **Optimized Gas Channels & High-Pressure Housing** - Designed for working pressures up to 28 bar, featuring optimized internal gas flow channels to minimize pressure drop and maintain high operating efficiency.
- **Dual-Stage Energy Regulation** - Supports 100% and 50% capacity regulation stages, allowing smooth adaptation to changing system thermal loads.
- **Balanced Mechanical Construction** - Features dynamically balanced crankshaft, wear-resistant sleeve bearings, and optimized connecting rods to reduce operational vibration and ensure stable long-term running.
- **Integrated Protection & Components**
 - INT69B2 electronic motor protection module
 - 360° rotatable suction and discharge shut-off valves
 - High-density internal suction gas filter
 - Internal high/low pressure safety relief valve
- **Multi-Refrigerant & Dual-Frequency Compatibility** - Engineered for versatile system integration, supporting R22, R134a, R404A, R407C, and R507 refrigerants across 50Hz and 60Hz power supplies.

Product Image



Technical Specifications

Model	SP4H3000, SP4H300E
Rated Power	30HP / 22.4KW
Exhaust Volume (50Hz/60Hz)	86.1 / 103.3 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507

Weight	209 KG
Oil Charge	3.7 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	150 / 243 A
Max Operating Current	52 A

Model SP		H (High-Temp Compressor)									
		SP4H					SP6H			SP8H	
		2200 220E	2500 250E	3000 300E	3500 350E	3700 370E	4000 400E	5000 500E	6000 600E	7000 700E	
Rated power	Hp/kW	22/16.4	25/18.7	30/22.4	35/26.1	37/27.6	40/29.9	50/37.3	60/45	70/52	
Exhaust volume 50/60Hz	m³/hr	64.7/77.6	75/90	86.1/103.3	102.9/123.5	112.5/135	129.1/154.9	154.4/185.3	186/224	222/268	
Cylinders		4	4	4	4	6	6	6	8	8	
Weight	Kg	193	206	209	238	241	246	250	345	350	
Oil Charge	dm³	3.7	3.7	3.7	3.7	4.2	4.2	4.2	5	5	
Crankcase heater		230V-150W-50/60Hz								230V-200W-50/60Hz	
Exhaust pipe inner diameter Φ	mm/inches	28/1-1/8"	28/1-1/8"	28/1-1/8"	35/1-3/8"	35/1-3/8"	35/1-3/8"	42/1-5/8"	54/2-1/8"	54/2-1/8"	
Suction pipe inner diameter Φ	mm/inches	42/1-5/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	54/2-1/8"	67/2-5/8"	67/2-5/8"	
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,66,33%	100,66,33%	100,66,33%	100,75,50%	100,75,50%	
Standard motor		400V/3/50Hz 460V/3/60Hz PW								400V/3/50Hz 460V/3/60Hz P W	
Starting current PW/DOL	A	102/170	123/201	150/243	178/290	178/290	201/330	233/394	271/361	329/439	
Starting current Y/D	A	—	—	—	—	—	—	—	—	—	
Max operating current	A	37	43	52	56	60	75	93	115	140	

Frequently Asked Questions

What parameters are needed when selecting this semi sealed compressor?

Model selection requires confirming required cooling capacity, operating evaporating and condensing temperatures, refrigerant type, power supply voltage/frequency, and application details.

How does the motor protection module function on model SP4H3000?

The built-in INT69B2 module continuously monitors motor winding temperature to prevent damage caused by thermal overload or severe operating conditions.

What routine inspections should operators perform during regular maintenance?

Regularly check the oil level through the sight glass, verify crankcase heater operation before cold starts, monitor operating current, and inspect internal filter cleanliness.

How does the rotatable valve design assist during installation?

Both suction and discharge shut-off valves rotate 360°, allowing installers to adjust line directions freely and reduce piping stress in tight mechanical spaces.

 **Shenzhen Coolstart Refrigeration Equipment Co., Ltd**



86-13922880636



info@coolstartcn.com



coldroomunit.com

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