



Refcomp SP4H2500 SP4H250E SP Series Reciprocating Semi Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4H2500, SP4H250E
- 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: 25HP/18.7KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement 50/60Hz: 75/90 M3/hr
- Refrigerant: R22, R407C, R134a, R404A, R507
- Oil Charge: 3.7L
- Highlight: Refcomp SP4H2500 semi hermetic compressor, SP Series reciprocating compressor, SP4H250E semi hermetic compressor



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Product Description

Refcomp SP4H2500 SP4H250E SP Series Reciprocating Semi Hermetic Compressor

Optimized Gas Flow & Pressure Shell

Designed for shell working pressures up to 28 bar, this reciprocating semi hermetic compressor features optimized gas flow channels to minimize pressure loss and maintain high operating efficiency.

Step Capacity Regulation

Offers 100% and 50% capacity control stages, enabling the compressor to adjust smoothly to varying thermal loads and improve part-load energy efficiency.

Balanced Mechanical Construction

Equipped with a dynamically balanced crankshaft and wear-resistant sliding sleeve bearings designed for an extended service life of 50,000 to 80,000 hours under heavy-duty conditions.

Integrated Component Package

- 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 Versatility

Engineered for multi-refrigerant operation, supporting standard industrial and commercial refrigerants including R22, R134a, R404A, R407C, and R507.

Product Image



Technical Specifications

Model	SP4H2500, SP4H250E
Rated Power	25HP/18.7KW
Exhaust Volume (50Hz/60Hz)	75/90 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507

Weight	206KG
Oil Charge	3.7L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	123/201A
Max Operating Current	43A

Model SP		H (High-Temp Compressor)									
		SP4H					SP6H			SP8H	
		2200	2500	3000	3500	3700	4000	5000	6000	7000	
		220E	250E	300E	350E	370E	400E	500E	600E	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 parameter details are required when selecting this reciprocating semi hermetic compressor?

Accurate model selection requires specifying required cooling capacity, operating evaporating and condensing temperatures, refrigerant type, voltage supply, and application conditions.

What motor protection system is included with SP series compressor?

The compressor is equipped with an INT69B2 protection module, which monitors motor winding temperature to prevent thermal overload and electrical damage.

What maintenance steps are recommended to ensure long-term operation for this reciprocating semi hermetic compressor?

Regularly inspect the oil level through the sight glass, verify crankcase heater activation prior to cold starts, check electrical current levels, and ensure suction filter cleanliness.

How does the rotatable valve design facilitate system installation?

The suction and discharge shut-off valves feature 360° rotation capability, allowing flexible pipeline orientation and simplifying system connection in compact equipment layouts.

 **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