



Refcomp SP6H5000 SP6H500E Semi-Hermetic Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP6H5000, SP6H500E
- 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

- Displacement 50/60Hz: 154.4/185.3 M3/hr
- Oil Charge: 4.2L
- Rated Power: 50HP/37.3KW
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight:
 - Three-Stage Step Load Matching Semi-Hermetic Refrigeration Compressor
 - 6-Cylinder High-Displacement Design Semi Hermetic Compressor
 - Wide Grid & Refrigerant Compatibility Refrigeration Compressor



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Product Description

Refcomp SP6H5000 SP6H500E Semi-Hermetic Refrigeration Compressor

Product Overview

Three-Stage Step Load Matching

Featuring 100%, 66%, and 33% energy regulation, this semi-hermetic refrigeration compressor efficiently matches fluctuating cooling demand to reduce power consumption during part-load operation.

6-Cylinder High-Displacement Design

Delivers up to 185.3 m³/h displacement via optimized gas flow channels, ensuring low pressure drop and stable volumetric efficiency in large-capacity systems.

Wide Grid & Refrigerant Compatibility

Engineered for versatile deployment with R22, R134a, R404A, R407C, and R507 refrigerants across 400V/50Hz and 460V/60Hz industrial power networks.

Product Image



Technical Specifications

Model	SP6H5000, SP6H500E
Rated Power	50HP/37.3KW
Exhaust Volume (50Hz/60Hz)	154.4/185.3 m³/hr

Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	250KG
Oil Charge	4.2L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	233/394A
Max Operating Current	93A

Model SP		H (High-Temp Compressor)						
		SP4H				SP6H		
		2200	2500	3000	3500	3700	4000	5000
		220E	250E	300E	350E	370E	400E	500E
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
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
Cylinders		4	4	4	4	6	6	6
Weight	Kg	193	206	209	238	241	246	250
Oil Charge	dm³	3.7	3.7	3.7	3.7	4.2	4.2	4.2
Crankcase heater		230V-150W-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"
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"
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,66,33%	100,66,33%	100,66,33%
Standard motor		400V/3/50Hz 460V/3/60Hz PW						
Starting current PW/DOL	A	102/170	123/201	150/243	178/290	178/290	201/330	233/394
Starting current Y/D	A	-	-	-	-	-	-	-
Max operating current	A	37	43	52	56	60	75	93

Frequently Asked Questions

What electrical infrastructure is required to support the starting current of SP6H5000 SP6H500E compressor?

The electrical system must accommodate a maximum operating current of 93 A and starting currents up to 233 A (Part Winding) or 394 A (Direct On Line) at 400V/50Hz.

What piping layout precautions help prevent liquid slugging in high-capacity installations?

Install suction line accumulators, slope horizontal suction lines back toward the compressor, and ensure liquid line solenoid valves close tightly during pump-down cycles.

What causes unexpected tripping of the built-in INT69B2 thermal protection module?

Tripping usually results from excessive discharge temperatures, insufficient suction gas cooling, phase unbalance, or prolonged high-current operation near the 93 A limit.

What key system parameters must be verified before replacing an existing compressor with this semi-hermetic refrigeration compressor?

Verify matching mounting dimensions, electrical supply capacity, suction/discharge pipe diameters (54 mm / 42 mm), and required cooling capacity at operating temperatures.