



Refcomp SP6L3000 SP6L300E Semi-Hermetic Reciprocating Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP6L3000, SP6L300E
- 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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement 50/60Hz: 129.1/154.9 M3/hr
- Rated Power: 30HP/22.4KW
- Oil Charge: 4.2L
- Highlight: Refcomp SP6L3000 refrigeration compressor, semi-hermetic reciprocating compressor, SP6L300E refrigeration compressor with warranty



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Product Description

Refcomp SP6L3000 SP6L300E Semi-Hermetic Reciprocating Refrigeration Compressor

Product Overview

6-Cylinder Direct Gas Suction Flow

Engineered with a 6-cylinder layout and direct gas intake channels, this semi-hermetic reciprocating refrigeration compressor minimizes internal flow restriction to achieve an exhaust volume of up to 154.9 m³/h.

Flexible Grid & Multi-Refrigerant Operation

Fully compatible with dual 400V/50Hz and 460V/60Hz power supplies, running seamlessly with R22, R134a, R404A, R407C, and R507 low-temperature refrigerants.

Heavy-Duty Casing & Electrical Protection

Constructed with a 28 bar pressure-rated housing, dynamically balanced crankshaft, wear-resistant bearings, and an INT69B2 thermal module to safeguard this semi-hermetic compressor under severe freezing conditions.

Field Service & Terminal Configuration

- 360° rotatable suction (54 mm) and exhaust (35 mm) shut-off valves
- Factory-installed 230V / 150W crankcase heater for off-cycle protection
- Accessible high-density internal suction filter

Product Image



Technical Specifications

Model	SP6L3000, SP6L300E
Rated power	30HP/22.4KW
Exhaust volume (50Hz/60Hz)	129.1/154.9 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	236KG
Oil Charge	4.2L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	150/243A
Max operating current	54A

Model SP		L (Low-Temp Compressor)						
		SP4L				SP6L		
		1500	1800	2200	2500	2700	3000	4000
		150E	180E	220E	250E	270E	300E	400E
Rated power	Hp/kW	15/11.2	18/13.3	22/16.4	25/18.7	27/20.2	30/22.4	40/29.9
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	182	186	195	220	230	236	247
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"	42/1-5/8"	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	88/146	102/170	102/170	123/201	123/201	150/243	201/330
Starting current Y/D	A	–	–	–	–	–	–	–
Max operating current	A	29	33	39	43	48	54	75

Frequently Asked Questions

What are the electrical wiring requirements for terminal block jumpers when configuring PW starting on this semi-hermetic compressor?

Remove the shorting bridges between winding terminals during Part-Winding startup, allowing the control panel contactors to sequence the two separate motor winding circuits with a 0.5-second delay.

What suction superheat range should be maintained during low-temperature operation to prevent thermal breakdown of POE oil?

Maintain a suction superheat of 5K to 10K at the compressor inlet to ensure adequate motor cooling while preventing excessive discharge temperatures from thermalizing the 4.2 dm³ oil charge.

How does the internal pressure relief valve protect the compressor during abnormal discharge blockages?

The internal safety valve automatically opens if the differential pressure between the discharge and suction chambers exceeds safe limits, venting gas internally within the 28 bar rated housing to prevent structural failure.

What routine maintenance procedure should be performed on the suction strainer after initial system commissioning?

Isolate the compressor, pump down the suction side, remove the suction valve flange, and clean or inspect the high-density suction strainer screen to clear installation debris.

