



Refcomp SP6L4000 SP6L400E 40HP Semi-Hermetic Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP6L4000, SP6L400E
- 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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 4.2L
- Refrigerant: R22, R407C, R134a, R404A, R507
- Rated Power: 40HP/29.9KW
- Highlight: 40HP semi-hermetic compressor, Refcomp SP6L4000 compressor, SP6L400E semi-hermetic compressor



More Images



Product Description

Refcomp SP6L4000 SP6L400E 40HP Semi-Hermetic Compressor

Product Features

- **Three-Stage Energy Adaptation**

Equipped with 100%, 66%, and 33% step capacity control, this semi-hermetic compressor dynamically adjusts cooling output to match fluctuating low-temperature demands while maximizing seasonal efficiency.

- **6-Cylinder High-Displacement Flow**

Engineered with direct gas suction channels and six cylinders to deliver up to 185.3 m³/h displacement, minimizing internal pressure drop and turbulence during compression.

- **Heavy-Duty Drive & Thermal Protection**

Constructed with a 28 bar pressure-rated housing, dynamically balanced crankshaft, wear-resistant sleeve bearings, and an INT69B2 thermal module for long-term operational safety.

- **Standard Service & Connection Package**

Features 360° rotatable suction (54 mm) and exhaust (42 mm) shut-off valves, an internal suction gas filter, and a factory 230V / 150W crankcase heater on this semi-hermetic compressor.

Product Image



Technical Specifications

Model	SP6L4000, SP6L400E
Rated Power	40HP/29.9KW

Exhaust Volume (50Hz/60Hz)	154.4/185.3 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	247KG
Oil Charge	4.2L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	201/330A
Max Operating Current	75A

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

Q1: What suction line slope and trap recommendations prevent oil logging when running this semi hermetic compressor at 33% partial load?

A1: Horizontal suction lines should slope toward the compressor at a minimum gradient of 1%, and vertical risers must be sized to maintain at least 5 m/s gas velocity during 33% step operation to ensure oil returns to the 4.2 dm³ sump.

Q2: What causes high discharge gas temperatures during low-temperature operation, and how can it be mitigated?

A2: Elevated discharge temperatures occur from excessive suction superheat or extreme compression ratios; installing an optional head cooling fan or liquid injection kit keeps operating temperatures within safe limits.

Q3: How should electrical protection relays be set for Part-Winding (PW) startup on a 40 Hp motor?

A3: Set the Part-Winding delay relay between 0.5 and 1.0 second, sizing thermal overload breakers to protect the 75 A maximum operating current while accommodating the initial 201 A starting inrush.

Q4: What routine maintenance protocol applies to the internal suction filter and oil sight glass during annual shutdowns?

A4: Isolate the compressor, recover remaining refrigerant, remove the suction valve flange to clean the high-density screen of debris, and check sight glass seals before recommissioning.



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