



Refcomp SP8L6000 SP8L600E 60HP 45KW Low-Temp Refrigeration Semi-Hermetic Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP8L6000, SP8L600E
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union, T/T
- Supply Ability: 10000Pcs/Year



Product Specification

- Rated Power: 60HP/45KW
- Oil Charge: 5L
- Displacement: 222/268 M3/hr
- Refrigerant: R22, R407C, R134a, R404A, R507
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: SP8L6000 60HP semi-hermetic compressor, SP8L600E 45KW low-temp compressor, semi-hermetic refrigeration compressor



More Images



Product Description

Product Overview

The Refcomp SP8L6000 / SP8L600E is a 60HP (45KW) semi-hermetic reciprocating compressor engineered for low-temperature refrigeration systems. Its compact integrated structure, optimized internal gas passages, and refined mechanical design deliver stable performance, reduced vibration, and dependable long-term operation.

Key Design Features

Compact Body & Optimized Gas Flow

Optimized internal gas passages help reduce intake resistance and exhaust flow losses. The compact integrated structure simplifies the overall compressor layout, while smoother refrigerant flow supports stable operation in low-temperature refrigeration systems.

Refined Crankshaft & Connecting-Rod Design

RefComp's specially developed crankshaft promotes smooth mechanical movement, effective lubrication, and reduced vibration. The wear-resistant bushing at the connecting rod's small end helps minimize friction and mechanical wear, supporting reliable operation and reducing the risk of premature component failure.

Built-in High-Density Suction Filter

The high-density suction filter captures impurities before they enter the compression chamber, helping protect the motor and internal mechanical components from contamination. Its external mounting makes inspection and replacement easier, reducing maintenance difficulty and helping keep the compression system clean.

INT69B2 Motor Protection

The integrated INT69B2 protection module helps protect the motor against burnout under abnormal operating conditions. This additional electrical safeguard reduces the risk of motor damage and unexpected equipment downtime, providing greater confidence during continuous refrigeration operation.

Product Image



Technical Specifications

Model	SP8L6000, SP8L600E
Rated Power	60HP / 45KW
Exhaust Volume (50/60Hz)	222 / 268 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	345 KG
Oil Charge	5 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW / DOL	271 / 361 A
Max Operating Current	115 A

Model SP		L (Low-Temp Compressor)				
		SP6L			SP8L	
		2700 270E	3000 300E	4000 400E	5000 500E	6000 600E
Rated power	Hp/kW	27/20.2	30/22.4	40/29.9	50/37	60/45
Exhaust volume 50/60Hz	m³/hr	112.5/135	129.1/154.9	154.4/185.3	186/224	222/268
Cyinders		6	6	6	8	8
Weight	Kg	230	236	247	340	345
Oil Charge	dm³	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	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	54/2-1/8"	54/2-1/8"	54/2-1/8"	67/2-5/8"	67/2-5/8"
Energy regulation		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 PW	
Starting current PW/DOL	A	123/201	150/243	201/330	237/316	271/361
Starting current Y/D	A	–	–	–	–	–
Max operating current	A	48	54	75	97	115

Frequently Asked Questions

Q1: How do I select the right SP8L6000 for my refrigeration system?

The SP8L6000 is an eight-cylinder reciprocating compressor designed for low-temperature refrigeration applications. When selecting a semi-hermetic compressor, provide the required cooling capacity, refrigerant, evaporating and condensing temperatures, ambient conditions, and power supply to confirm system compatibility.

Q2: How does the crankshaft design benefit compressor operation?

The optimized crankshaft structure supports smoother movement and effective lubrication, helping reduce vibration and mechanical friction. Combined with the wear-resistant connecting-rod bushing, it helps improve the reliability of moving components during operation.

Q3: What should I do if the INT69B2 motor protection module trips?

If the semi-hermetic compressor stops following a protection trip, inspect the power supply, phase condition, motor wiring, and operating conditions. Identify and correct the underlying problem before restarting the compressor.

Q4: How should the suction filter be maintained?

Regularly inspect the suction filter for contamination or blockage. Replace it when necessary according to actual operating conditions and maintenance recommendations to help protect the internal compressor components.



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