



Refcomp SP6L2700 SP6L270E 27HP Semi Sealed Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP6L2700, SP6L270E
- 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: 27HP/20.2KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Displacement 50/60Hz: 112.5/135 M3/hr
- Oil Charge: 4.2L
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: Refcomp SP6L2700 semi sealed compressor, 27HP reciprocating compressor, SP6L270E semi hermetic compressor



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Product Description

Refcomp SP6L2700 SP6L270E 27HP Semi Sealed Reciprocating Compressor

Product Overview

- Three-Step Load Adaptation**
Featuring 100%, 66%, and 33% energy regulation steps, this semi sealed reciprocating compressor efficiently matches partial refrigeration loads to minimize power consumption during off-peak demand.
- 6-Cylinder High-Displacement Flow**
Engineered as a 6-cylinder semi-hermetic reciprocating compressor, it delivers an exhaust volume of up to 135 m³/h at 60Hz through direct gas suction channels, lowering internal throttling losses.
- Heavy-Duty Bearing & Casing Construction**
Constructed with a 28 bar pressure-rated casing, wear-resistant sliding bearings, and an INT69B2 motor thermal module to maintain structural integrity under low-temperature operating stress.
- Integrated Service Package**
Includes 360° rotatable suction (54 mm) and exhaust (35 mm) shut-off valves, a factory 230V / 150W crankcase heater, and an internal high-density suction strainer for this refrigeration reciprocating compressor.

Product Image



Technical Specifications

Model	SP6L2700, SP6L270E
Rated Power	27HP / 20.2KW
Exhaust Volume (50Hz/60Hz)	112.5 / 135 m ³ /hr
Refrigerant Type	R22, R407C, R134a, R404A, R507

Weight	230KG
Oil Charge	4.2L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	123 / 201A
Max Operating Current	48A

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 capacity step switching delays should be programmed into the system controller for the 100%-66%-33% regulation solenoids?

Program a minimum 30-to-60 second delay between capacity step transitions to stabilize suction pressure, prevent solenoid short-cycling, and ensure consistent crankcase oil return.

When does a low-temperature system utilizing a 4.2 dm³ oil charge require an external oil separator and reservoir system?

An external oil separator is recommended when suction lines exceed 20 meters, in multi-evaporator circuits, or where extended defrost cycles cause temporary oil migration away from the crankcase.

How can service technicians distinguish between internal safety relief valve bypass and worn valve plates during troubleshooting?

Relief valve bypass results in a rapid equalization of high-side pressure into the suction manifold accompanied by localized casing heat near the valve port, whereas worn valve plates cause gradual pressure equalization and diminished pumping capacity.

What installation precautions apply when replacing cylinder head gaskets after internal valve plate inspection?

Thoroughly clean all gasket seating surfaces, apply a thin coat of clean refrigeration oil to replacement gaskets, and torque cylinder head bolts in a crisscross sequence to preserve the 28 bar housing seal.

