



Refcomp SP4LN1200 SP4LN120E Reciprocating Chiller Compressor for Condensing Unit

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4LN1200, SP4LN120E
- 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

- Oil Charge: 2.6L
- Rated Power: 12HP/8.9KW
- Oil Lubrication Method: Splash Lubrication
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22, R407C, R134a, R404A, R507
- Displacement 50/60Hz: 56/67.2 M3/hr
- Highlight: Refcomp SP4LN1200 reciprocating chiller compressor, SP4LN120E condensing unit compressor, semi hermetic chiller compressor with warranty



More Images



Product Description

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Product Overview

Low-Temperature Chilling Output

Delivering a displacement of 67.2 m³/h at 60Hz with 100% and 50% step capacity control, this reciprocating chiller compressor efficiently matches fluctuating process cooling demands.

Optimized Direct Flow Architecture

Features direct internal gas channels and a robust housing rated for 28 bar, minimizing suction pressure losses and optimizing volumetric efficiency in low-temp systems.

Heavy-Duty Mechanical Drive

Built with a dynamically balanced 4-cylinder crankshaft, wear-resistant sleeve bearings, an internal safety valve, and an INT69B2 module for motor thermal protection.

Standard Service & Component Package

360° rotatable suction (35 mm) and exhaust (28 mm) shut-off valves

Factory-installed 230V / 220W crankcase heater

Internal high-density suction gas filter

Product Image



Technical Specifications

Model	SP4LN1200, SP4LN120E
Rated power	12HP/8.9KW
Exhaust volume (50Hz/60Hz)	56/67.2 m³/hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	146KG
Oil Charge	2.6L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting current PW/DOL	75/125A
Max operating current	27A

Model SP		L (Low-Temp Compressor)							
		SP4LF/SP4LN				SP4L			
		600 060E	800 080E	1000 100E	1200 120E	1500 150E	1800 180E	2200 220E	2500 250E
Rated power	Hp/kW	6/4.5	8/5.9	10/7.5	12/8.9	15/11.2	18/13.3	22/16.4	25/18.7
Exhaust volume 50/60Hz	m³/hr	35/42	42/50.4	49/58.8	56/67.2	64.7/77.6	75/90	86.1/103.3	102.9/123.5
Cylinders		4	4	4	4	4	4	4	4
Weight	Kg	134	139	144	146	182	186	195	220
Oil Charge	dm³	2.6	2.6	2.6	2.6	3.7	3.7	3.7	3.7
Crankcase heater		230V-220W-50/60Hz				230V-150W-50/60Hz			
Exhaust pipe inner diameter Φ	mm/inches	22/7/8"	28/1-1/8	28/1-1/8	28/1-1/8	28/1-1/8"	28/1-1/8"	28/1-1/8"	35/1-3/8"
Suction pipe inner diameter Φ	mm/inches	28/1-1/8"	35/1-3/8"	35/1-1/8"	35/1-3/8"	42/1-5/8"	42/1-5/8"	54/2-1/8"	54/2-1/8"
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%
Standard motor		400V/3/50Hz 460V/3/60Hz PW				400V/3/50Hz 460V/3/60Hz PW			
Starting current PW/DOL	A	43/70	54/88	71/110	75/125	88/146	102/170	102/170	123/201
Starting current Y/D	A	-	-	-	-	-	-	-	-
Max operating current	A	16	19	24	27	29	33	39	43

Frequently Asked Questions

Q1: What essential design safeguards prevent liquid evaporator freeze-up when installing this reciprocating chiller compressor in low-temperature chillers?

Install a reliable fluid loop flow switch, maintain proper glycol/anti-freeze concentrations, and set low-pressure cutouts above the fluid's freezing threshold.

Q2: How does the 360° rotatable valve design simplify chiller frame assembly?

Rotatable suction and discharge shut-off valves allow technicians to adjust pipe connection angles freely, minimizing piping stress and fitting issues in compact equipment frames.

Q3: What factors should be checked if the motor protector trips during high-load commissioning?

Verify that operating current does not exceed the 27 A maximum limit, inspect phase voltage balance, check for excessive suction pressure during pulldown, and ensure adequate crankcase heater preheating.

Q4: What operational checks ensure efficient oil return in low-temperature fluid chilling circuits?

Verify minimum suction gas velocity in vertical risers during 50% capacity step operation, check for a stable oil level in the sight glass, and adjust expansion valve superheat accordingly.