



Refcomp SP4LN1000 SP4LN100E Semi Hermetic Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4LN1000, SP4LN100E
- 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 Lubrication Method: Splash Lubrication
- Oil Charge: 2.6L
- Displacement 50/60Hz: 49/58.8 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 10HP/7.5KW
- Refrigerant: R22, R407C, R134a, R404A, R507
- Highlight: Refcomp SP4LN1000 low temp compressor, SP4LN100E cold storage compressor, semi sealed compressor with warranty



More Images



for more products please visit us on coldroomunit.com

Product Description

Refcomp SP4LN1000 SP4LN100E Low Temp Cold Storage Semi Sealed Compressor

Product Overview

This semi-hermetic reciprocating compressor delivers high-displacement output for low-temperature applications with efficient capacity regulation and robust construction.

Low-Temperature High-Displacement Output: Delivering a displacement of 58.8 m³/h at 60Hz with 100% and 50% capacity step regulation, efficiently managing fluctuating thermal loads in freezer environments.

Direct Suction & Pressure Housing: Features direct-path internal gas channels within a 28 bar rated housing, minimizing suction pressure loss and maximizing overall compression efficiency.

Multi-Refrigerant System Integration: Supports operation across 400V/50Hz and 460V/60Hz grids with standard low-temperature refrigerants, ideal for diverse commercial refrigeration systems.

Factory Protection & Maintenance Hardware: Includes factory-installed protection systems and adjustable components for reliable operation.

Product Image



Technical Specifications

Model	SP4LN1000, SP4LN100E
Rated Power	10HP/7.5KW
Exhaust Volume (50Hz/60Hz)	49/58.8 m ³ /hr
Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	144KG
Oil Charge	2.6L

Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	71/110A
Max Operating Current	24A

Model SP		L (Low-Temp Compressor)							
		SP4LF/SP4LN				SP4L			
		600	800	1000	1200	1500	1800	2200	2500
		060E	080E	100E	120E	150E	180E	220E	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

Q: How should hot gas defrost cycles be managed to protect this semi hermetic reciprocating compressor?

A: Ensure a suction liquid accumulator is fitted to catch unevaporated liquid returned during defrost termination, and delay full capacity loading until system pressures normalize.

Q: What expansion valve setting precautions prevent oil dilution in low-temperature evaporators?

A: Maintain stable superheat (at least 5-8 K at the compressor suction inlet) to prevent wet compression and keep refrigerant from dissolving excessive lubricant in the crankcase.

Q: What maximum pressure limits apply during system pressure testing and leak checking?

A: Perform pressure testing using dry nitrogen, ensuring test pressures do not exceed the compressor low-side or high-side design limits (housing pressure limit is 28 bar).

Q: How often should compressor oil be replaced during continuous commercial operation?

A: Change the initial oil charge after the first 100 hours of run-in, and subsequently conduct oil analysis or replacement every 10,000 operational hours or once a year.

 **Shenzhen Coolstart Refrigeration Equipment Co., Ltd**



86-13922880636



info@coolstartcn.com



coldroomunit.com

Room 1801, Building 1, Kangli city, No. 66 Pingji Road, Longgang District, Shenzhen, Guangdong, China