



Refcomp SP4LN0800 SP4LN080E Low Temp Cold Storage Semi Sealed Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SP4LN0800, SP4LN080E
- 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: 42/50.4 M3/hr
- Oil Lubrication Method: Splash Lubrication
- Refrigerant: R22, R407C, R134a, R404A, R507
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 2.6L
- Rated Power: 8HP/5.9KW
- Highlight: Refcomp SP4LN0800 low temp compressor, SP4LN080E semi sealed compressor, cold storage semi hermetic compressor



More Images



Product Description

Refcomp SP4LN0800 SP4LN080E Low Temp Cold Storage Semi Sealed Compressor

Product Overview

Advanced semi-sealed compressor engineered for low-temperature cold storage applications with superior efficiency and reliability.

Key Features

- Low-Temp Volumetric Performance:** Delivering up to 50.4 m³/h displacement with 100% and 50% step capacity regulation, efficiently satisfying variable low-temperature refrigeration loads.
- Direct Gas Flow Channel:** Built with direct internal gas paths and high-strength casing rated up to 28 bar, minimizing suction pressure loss and maximizing compression efficiency.
- Multi-Grid & Refrigerant Integration:** Designed for dual-frequency 400V/50Hz and 460V/60Hz networks, operating smoothly with standard low-temp refrigerants including R22, R134a, R404A, R407C, and R507.
- Integrated Service & Safety Kit:** Factory-installed 230V/220W crankcase heater for off-cycle protection, INT69B2 motor thermal protection module, 360° rotatable suction (35mm) and exhaust (28mm) valves, internal suction gas filter, and high/low pressure safety relief valve.

Product Image



Technical Specifications

Model	SP4LN0800, SP4LN080E
Rated Power	8HP / 5.9KW
Exhaust Volume (50Hz/60Hz)	42 / 50.4 m³/hr

Refrigerant Type	R22, R407C, R134a, R404A, R507
Weight	139 KG
Oil Charge	2.6 L
Voltage	400V/3/50Hz, 460V/3/60Hz PW
Starting Current PW/DOL	54 / 88A
Max Operating Current	19A

Model SP		L (Low-Temp Compressor)							
		SP4LF/SP4LN				SP4L			
		600	800	1000	1200	1500	1800	2200	2500
Rated power	Hp/kW	060E	080E	100E	120E	150E	180E	220E	250E
Exhaust volume	m³/hr	6/4.5	8/5.9	10/7.5	12/8.9	15/11.2	18/13.3	22/16.4	25/18.7
50/60Hz									
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	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"
inner diameter Φ									
Suction pipe	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"
inner diameter Φ									
Energy regulation		100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%	100,50%
Standard motor		400V/3/50Hz				400V/3/50Hz			
		460V/3/60Hz PW				460V/3/60Hz PW			
Starting current	A	43/70	54/88	71/110	75/125	88/146	102/170	102/170	123/201
PW/DOL									
Starting current	A	-	-	-	-	-	-	-	-
Y/D									
Max operating	A	16	19	24	27	29	33	39	43
current									

Frequently Asked Questions

Q1: What lifting and handling precautions should be observed when transporting this semi sealed compressor?

A1: Always use the designated lifting eyelets on the body, maintain the unit in an upright orientation to prevent oil from entering suction passages, and protect connection ports against moisture during transit.

Q2: How can technicians identify liquid refrigerant floodback and what immediate measures should be taken?

A2: Liquid floodback typically causes rapid crankcase frosting, violent oil foaming in the sight glass, and abnormal casing noise; adjust thermal expansion valve superheat or perform a pump-down cycle immediately.

Q3: How should terminal box wiring be secured to maintain proper electrical enclosure protection?

A3: Use appropriately rated cable glands to seal entry points, tighten jumper connections to specified torque values, and verify solid ground continuity prior to energizing the motor.

Q4: What suction riser design rules ensure adequate oil return when operating this compressor at 50% partial capacity?

A4: Vertical suction lines should be sized properly or constructed with double-riser loops to keep gas velocity above 5 m/s during 50% step operation, preventing oil trapping in low-temperature evaporators.

 **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