

Refcomp SW3L-20000 200HP 3 Phase Industrial Semi-Hermetic Screw AC Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Refcomp
- Certification: CE
- Model Number: SW3L-20000
- 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

- Voltage: 400V/3/50Hz, 460/3/60Hz
- Displacement: 600/720 M3/hr
- Rated Power: 200HP/149KW
- Refrigerant: R22, R134a, R507, R404A, R407C, R410a
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **Refcomp SW3L-20000 screw compressor**, **200HP semi-hermetic AC compressor**, **3 phase industrial screw compressor**



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Our Product Introduction

Product Description

Key Design Features

Optimized Asymmetric Rotor Design

The SW3L-20000 screw AC compressor features RefComp's asymmetric 5/6-tooth rotor profile, helping achieve smooth rotor engagement and reduced vibration. This RefComp screw compressor uses optimized rotor geometry to support efficient compression and stable mechanical operation.

Precision Multi-Bearing Support

The semi-hermetic screw compressor uses multiple precision bearings to support axial and radial rotor loads. Accurate fitting and effective lubrication help reduce friction, mechanical noise and component wear, supporting reliable operation under demanding refrigeration conditions.

Intelligent Motor Monitoring & Protection

The INT69 SNY module works with six PTC temperature sensors to monitor motor overheating, reverse phase sequence and phase loss. Operating-status feedback helps technicians identify electrical faults more efficiently and reduces the risk of motor damage.

Flexible Valve Connections & Backflow Protection

The 360° rotatable suction and discharge shut-off valves provide flexible piping orientation, making installation easier in different equipment layouts. An integrated discharge check valve helps prevent refrigerant backflow during shutdown, providing additional system protection.

Product Image



Technical Specification

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Model	SW3L-20000
Rated power	200HP / 149KW
Displacement 50/60Hz	600 / 720 m³/hr
Weight	1050 KG
Capacity Regulation	25%, 50%, 75%, 100% 4-step; 25%–100% stepless
Standard Motor	Y/△ – 400V/3/50Hz – 460/3/60Hz
Star/Delta Start Current	543 / 1645 A
Max operating current	270 A

Model		SW3L(Low Temperature)						
		10500	11500	13000	16000	18000	20000	22000
Nominal Power	HP/KW	105/78	115/89	130/98	170/127	180/135	200/149	220/164
Displacement 50/60Hz	m^3/hr	341/409	380/456	445/534	510/612	562/674	600/720	700/840
Weight	Kg	530	665	675	710	1030	1050	980
Discharge Pipe Inner Diameter	mm / in	54/(2-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")	80/ (3-1/8")
Suction Pipe Inner Diameter	mm / in	80/(3-1/8")	92/ (3-5/8")	92/ (3-5/8")	92/ (3-5/8")	104.8/ (4-1/8")	104.8/ (4-1/8")	104.8/ (4-1/8")
Oil Line Connector	mm / in	Φ16mm / (5/8")SAE						
Capacity Regulation		25%, 50%, 75%, full load 4-step regulation or 25%~full load stepless regulation						
Protection Module		INT69 SNY						
Standard Motor		Y/△ - 400V/3/50Hz - 460/3/60Hz						
Star/Delta Start Current	A	318/953	276/876	354/1155	374/1155	453/1333	543/1645	543/1645
Max Operating Current	A	163	196	210	236	250	270	300

Frequently Asked Questions

Q1: Can the SW3L-20000 be used in an air-conditioning system?

The SW3L-20000 belongs to RefComp's low-temperature refrigeration range. Before selecting this screw AC compressor, verify that the required refrigerant, cooling capacity and evaporating and condensing temperatures fall within its approved operating envelope.

Q2: Which capacity-control configuration should I choose?

For a variable capacity screw compressor, stepped regulation suits systems with defined load stages, while stepless regulation allows finer output adjustment. Confirm the selected slide-valve configuration and controller compatibility before ordering.

Q3: What should be considered when designing the lubrication system?

The SW3L-20000 does not include an integrated oil separator, so a properly matched external oil separation and return system is required. Check the oil circuit, filtration, flow monitoring and piping connections against the manufacturer's installation requirements.

Q4: What should I check if the compressor trips during startup?

If the screw AC compressor stops following a protection alarm, inspect the INT69 SNY fault indication, motor temperature, phase sequence and electrical connections. Identify and correct the underlying fault before restarting the equipment.

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