



06NW2146S7EA-A00 50HP Water Cooled Semi Hermetic Screw Type Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06NW2146S7EA-A00
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 100PC



Product Specification

- Compressor Type: Screw
- Condensertype: Water-cooled
- Commercial Refrigeration: HVAC&Cooling Units
- Refrigerant: R134a
- Horse Power: 50HP
- Highlight: 50HP water cooled screw compressor, semi hermetic screw type compressor, water cooled screw air compressor



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Product Description

06NW2146S7EA-A00 50HP Water Cooled Semi Hermetic Screw Type Compressor

Enhanced Energy Efficiency

Managing operating electricity expenses in water-cooled chiller installations requires superior energy efficiency under partial thermal loads. Featuring an integrated 1-3/8 in economizer circuit, this advanced semi hermetic screw type compressor increases liquid refrigerant subcooling, boosting cooling capacity without drawing proportional additional power.

Combined with a 3-step capacity control mechanism (100%-66%-33%), it dynamically matches variable cooling demands, cutting peak electrical fees for commercial facilities.

Heavy-Duty Reliability

Frequent operational stops and fluctuating pressure conditions can shorten motor and bearing lifespan in heavy-duty liquid chillers. Engineered with patented rotor profiles, heavy-duty SKF/NSK bearings, and an internal check valve, this robust semi hermetic screw type compressor eliminates rotor reverse rotation at shutdown while minimizing internal gas bypass leakage.

An integrated oil filter, safety relief valve, and discharge muffler ensure smooth, whisper-quiet performance.

Environmental Compliance & Versatility

Adapting industrial water-cooled chillers to strict environmental regulations and global power grids demands versatile machinery. Operating on eco-friendly R134a refrigerant with UL, CE, and ISO 9002 certifications, this semi hermetic screw type compressor includes high-efficiency motor windings with integrated NTC thermal protection.

Supporting dual-voltage operation, it delivers a direct drop-in replacement solution for commercial liquid chillers worldwide.

Product Image



Technical Specifications

Model	06NW2146S7EA-A00
Nominal Power	50 HP
Refrigerant Type	R134a
Displacement (60/50Hz)	146CFM 203m³/s
Economizer	Y
Rated Voltage (V-Hz, A)	450V-50Hz-68.2A 400V-50Hz-67.1A
Weight	365 kg

Type	Displacement 60/50Hz	Interface Size			Model	Econo mizer Y/ N	Horse Power (HP)	Rated Voltage (V-Hz, A)			Locked Rotor Current (A)		Weight (KG)
		Suction	Discharge	Economizer				Voltage/Freq	RLA	PF	LRA(Y)	LRA(Δ)	
Water Cooled VI	146CFM 203m³/s	2-5/8	4-1/8	1-3/8	06NW*146S7EA	Y	50	460-60	68.2	0.86	128	405	365
					06NW*146T6EA			400-50	67.1	0.84	134	423	
					06NW*146U5EA			575-60	54.6	0.86	102	324	
					06NW*146W7EA			230-50	116.7	0.84	213	675	
					06NW*146V7EA			380-60	82.6	0.86	141	448	
					06NW*146X7EA			346-50	77.6	0.84	147	465	
					06NW*146Z6EA			208/230-60	143.3	0.86	256	810	
					06NW*146Z6EA			200-50	134.2	0.84	267	845	
								200-60	156.9	0.86	294	932	

Company Profile

Ruifujie is a modern industrial refrigeration supplier with over 20 years of manufacturing expertise, specializing in high-performance scroll, piston, rotary, semi-hermetic, and screw compressors, as well as complete cold room systems and ice machinery.

We offer comprehensive OEM/ODM customization options to adapt equipment to localized voltage standards and regional engineering demands. Our machinery is exported worldwide to major international markets including Spain, Indonesia, and Mexico, earning trusted long-term partnerships with global contractors and equipment distributors.



Frequently Asked Questions

What are the exact displacement figures for the 06NW2146S7EA-A00?

The 06NW2146S7EA-A00 model delivers a displacement of 203 m³/h at 50Hz (146 CFM at 60Hz).

How does the economizer circuit benefit water-cooled liquid chillers?

Connecting a subcooling loop to the economizer port increases liquid refrigerant subcooling, significantly raising system cooling capacity and COP without extra electrical consumption.

What electrical ratings are specified for the 06NW2146S7EA-A00 unit?

The compressor operates on 400V-3-50Hz (RLA 67.1 A) and 460V-3-60Hz (RLA 68.2 A), equipped with integrated NTC thermistors for motor

thermal defense.

What is the standard production delivery lead time for bulk orders?

Standard bulk production orders are completed and prepared for dispatch within 10 to 15 working days, while stocked sample units can be shipped within 3 business days.

How is this screw compressor packaged for ocean transport?

Each compressor unit is securely bolted onto a reinforced wooden pallet, wrapped in moisture-proof anti-corrosion film, and fully enclosed in a heavy-duty export plywood crate.

Request Bulk Order Pricing

Ruifujie leverages large-scale manufacturing capabilities to deliver competitive factory-direct pricing for international distributors and volume buyers. We offer transparent wholesale tier discounts and optimized container loading to maximize your commercial profit margins.

Send us your required order quantity and target product specifications today to receive a formal quotation within 8 hours.

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