



06NW2209S7EA-A00 75HP Water Cooled Refrigeration Screw Compressor for HVAC

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06NW2209S7EA-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: 75HP
- Highlight: **75HP water cooled screw compressor, HVAC refrigeration screw compressor, water cooled screw air compressor**



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Product Description

06NW2209S7EA-A00 75HP Water Cooled Refrigeration Screw Compressor for HVAC

Product Overview

This industrial screw compressor HVAC unit is engineered for commercial water-cooled liquid chillers, delivering optimized thermal efficiency, quiet operation, and extended service life.

Optimized Thermal Efficiency for Chilling

Commercial water-cooled liquid chillers operate most efficiently at moderate compression ratios. Built with an internal Vi 2.5 discharge profile and an integrated 1-3/8 in economizer circuit, this industrial screw compressor HVAC maximizes coefficient of performance (COP) without over-compressing refrigerant gas. By delivering enhanced liquid subcooling and flexible 3-step unloading (100%-66%-33%), it significantly reduces seasonal kilowatt-hour consumption in central building systems.

Quiet Performance and Low Vibration

Noise compliance in commercial office buildings and institutional facilities demands smooth mechanical execution. This high-capacity screw compressor HVAC integrates precision-balanced twin screw rotors, built-in discharge silencing mufflers, and optimal internal fluid passage designs. The result is continuous, low-vibration operation that lowers acoustic dampening requirements and protects surrounding pipe structures from resonant stress.

Extended Lifespan with Built-in Protections

Heavy mechanical stress during peak cooling cycles requires superior internal protection to avoid unexpected system downtime. Engineered with heavy-duty SKF/NSK rolling element bearings, an internal oil filtration system, and an automatic reverse-rotation check valve, this screw compressor HVAC minimizes wear on critical moving parts. Combined with NTC winding thermistors and a built-in safety relief valve, it maintains continuous duty while extending maintenance intervals.

Product Image



Technical Specifications

Model	06NW2209S7EA-A00
Nominal Power	75 HP
Refrigerant Type	R134a
Displacement (60/50Hz)	209 CFM / 290 m³/s
Economizer	Yes
Rated Voltage (V-Hz, A)	450V-50Hz-100.8A 400V-50Hz-98.2A
Weight	380 kg

Type	Displacement	Interface Size			Model	Econo mizer	Horse Power (HP)	Rated Voltage (V-Hz, A)			Locked Rotor Current (A)		Weight (KG)		
	60/50Hz	Suction	Discharge	Economizer		Y/ N		Voltage/Freq	RLA	PF	LRA(Y)	LRA(Δ)			
Water Cooled Vi	209CFM 290m3/s	2-5/8	4-1/8	1-3/8	06NW*209S7EA	Y	75	460-60	100.8	0.88	183	580	380		
					400-50			98.2	0.86	191	605				
					06NW*209T6EA			575-60	80.6	0.88	147	484			
					06NW*209U5EA			230-50	170.9	0.86	305	967			
					06NW*209W7EA			380-60	122	0.88	203	641			
								346-50	113.6	0.86	210	665			
								208/230-60	211.8	0.88	367	1160			
					06NW*209X7EA			200-50	196.5	0.86	382	1210			
					06NW*209Z6EA			200-60	231.9	0.88	422	1334			

Company Introduction

Ruifujie is a modern scaled manufacturing enterprise with over 20 years of experience in the global HVAC and refrigeration sector. We produce a full range of scroll, piston, rotary, semi-hermetic, and screw compressors, alongside modular cold storage rooms, quick-freezing tunnels, and industrial ice machines. Supporting comprehensive OEM/ODM customization across all product lines, Ruifujie exports to major international markets, including Russia, the USA, the UK, the UAE, and Saudi Arabia. Well-regarded for our strong engineering expertise and excellent product cost-performance ratio, we maintain stable, long-term partnerships with buyers worldwide.



Frequently Asked Questions

Q1: What are the primary displacement figures for the 06NW2209S7EA-A00 compressor?

A1: The 06NW2209S7EA-A00 features a displacement of 290 m³/h at 50Hz (209 CFM at 60Hz).

Q2: How does the combination of Vi 2.5 and an economizer circuit benefit water-cooled HVAC systems?

A2: The Vi 2.5 profile is matched specifically to water-cooled pressure ratios, while the economizer subcools liquid refrigerant to increase cooling output and operating COP without adding motor workload.

Q3: What internal lubrication and protective devices are engineered into this 75HP frame?

A3: The compressor includes an internal oil filter, an oil pump system, an anti-reverse rotation check valve, a discharge muffler, an internal safety relief valve, and NTC motor thermistors.

Q4: What is the delivery lead time for samples and volume orders?

A4: In-stock sample orders are dispatched within 3 business days, while standard complete production orders are fulfilled within 10 to 15 working days.

Q5: Do you support custom branding, private labeling, and multilingual nameplates?

A5: Yes, Ruifujie provides comprehensive OEM services supporting custom company logos and multilingual nameplate customization for global distributors.

Obtain Engineering Project Quotation

Backed by extensive experience in commercial cooling installations, Ruifujie provides tailored system proposals engineered to meet strict international project standards. Our technical team evaluates your exact thermal loads and ambient working conditions to ensure efficient equipment integration. Submit your project parameters and operational requirements now to obtain a comprehensive technical quote within 8 hours.

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