



06TUW483 Water Cooled Semi Hermetic Screw Compressor for Industrial Chiller System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle/Carrier
- Certification: CE
- Model Number: 06TUW483
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 100000Pcs/Year

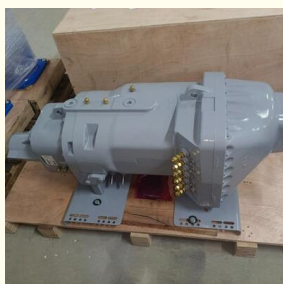


Product Specification

- Compressor Type: Water Cooled
- Displacement 60/50Hz: 809 / 670 M3/hr
- Refrigerant: R134a/R22/R404A/R407C/R507/R448A/R449A
- Application: HVAC, Cooling Units, Cold Room
- Horse Power: 160HP
- Highlight: water cooled screw compressor, semi hermetic screw compressor, industrial chiller system compressor



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Product Description

06TUW483 Water Cooled Semi Hermetic Screw Compressor for Industrial Chiller System

Product Overview

High-Capacity Water-Cooled Cooling Engine

The 06TUW483 semi hermetic screw compressor is engineered for large commercial water-cooled liquid chillers, central air conditioning systems, and industrial process cooling plants running on R134a refrigerant. Driven by a robust 160 HP motor with a high volumetric displacement reaching up to 809 m³/hr (483 cfm at 60Hz), this semi hermetic screw compressor provides rapid thermal pull-down and high energy efficiency for heavy-duty operational demands.

Wide-Range Capacity Regulation & Energy Savings

Facility managers often face high electrical utility costs and operational instability due to fluctuating building cooling loads. The 06TUW483 solves these performance issues through precise 25%-100% (or extended 15%-100%) stepless capacity modulation combined with an integrated 1-5/8 inch economizer loop. This system optimizes part-load energy efficiency, stabilizes chilling output, and reduces start-stop mechanical stress.

Industrial Structural Sealing & Bearing Reliability

With large 5-inch suction and 4-1/8-inch discharge flange connections, this semi hermetic screw compressor is equipped with high-precision anti-friction rolling bearings, heat-resistant motor protection circuits, and zero-leakage hermetic structural casing, guaranteeing continuous operational longevity in demanding commercial chilling operations.

Standard & Optional Accessories

Standard: Terminal box, oil system components, motor protection device, capacity control device, stop valve

Optional: Paragon control module / Kriwan protection module, oil separator, flanges, economizer, oil cooler, high-temperature expansion valve

Product Image



Technical Specifications

Model	06TUW483
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Nominal Power	160HP
Refrigerant Type	R134a
Displacement (60/50Hz)	483 / 403 cfm 809 / 670 m³/hr
Capacity Control	Stepless Adjustment 25-100%
Economizer	Y
Voltage (V,A)	06TUW483ST1D 460V-3-60Hz-199A 400V-3-50Hz-186A 06TUW483XT1D 230V-3-60Hz-397A 200V-3-50Hz-371A
Weight	915kg

R134a Water Cooled - With Economizer																	
Model	Displacement 60/50Hz	Interface Size (inch)			Capacity Control	Voltage/Hz (±10%)	Rated HP	Rated Power (kW)	RLA (A)	Max Current (A)	LRA (A)		Weight (KG)				
		Suction	Discharge	Economizer							Y	Δ					
06TUW483ST1D	483 / 403 cfm 809 / 670 m³/hr	5	4-1/8	1-5/8	Stepless Adjustment 25-100% or 15-100%	460V-3-60Hz	160	119	199	242	408	1270	915				
06TUW483XT1D						400V-3-50Hz		99	186	226	414	1290					
06TUW483XT1D						230V-3-60Hz		119	397	483	816	2540					
06TUW483XT1D						200V-3-50Hz		99	371	452	828	2580					
06TUW554ST1D	554 / 462 cfm 928 / 769 m³/hr					5	4-1/8	1-5/8	Stepless Adjustment 25-100% or 15-100%	460V-3-60Hz	160	119	223	271	408	1270	956
06TUW554ST1D										400V-3-50Hz		99	209	254	414	1290	
06TUW554XT1D										230V-3-60Hz		119	447	544	816	2540	
06TUW554XT1D										200V-3-50Hz		99	417	508	828	2580	

Company Introduction

Drawing upon over two decades of technical expertise in industrial cooling systems, Ruifujie operates as a modernized enterprise producing premium scroll, piston, rotary, semi-hermetic, and twin-screw compressors, alongside cold room evaporators, quick-freezing equipment, and industrial ice machinery. We offer full OEM/ODM engineering customization tailored to international project standards.

Ruifujie products are exported across worldwide markets, serving engineering clients in Russia, the United States, the United Kingdom, Saudi Arabia, the UAE, and other regions. With dedicated technical capabilities and outstanding cost efficiency, Ruifujie maintains strong, long-term strategic relationships with global commercial buyers.



Frequently Asked Questions

Q1: What commercial applications are best matched for the 06TUW483 compressor model?

A1: The 06TUW483 is engineered specifically for large R134a water-cooled chillers, central air conditioning plants, and industrial process water chilling operations requiring high volumetric displacement.

Q2: How does the 15%-100% capacity control feature benefit building chiller systems?

A2: The extended stepless modulation allows precise cooling output matching under low load conditions, preventing unnecessary compressor

cycles and reducing building power consumption.

Q3: What role does the 1-5/8 inch economizer connection play during operation?

A3: The economizer circuit subcools the liquid refrigerant before expansion, raising overall refrigeration capacity and COP without increasing motor power draw.

Q4: What is Ruifujie's policy regarding sample orders for engineering testing?

A4: Samples are provided with an upfront fee, which will be fully refunded once the total order quantity meets the required volume threshold.

Q5: What packaging standard is used for international export shipping?

A5: Units are packaged in solid wooden cases; ocean freight includes pre-charged refrigerant, while air freight excludes refrigerant due to aviation transport regulations.

Commercial Chiller Engineering Support

As an established supplier and manufacturer of commercial refrigeration machinery, Ruifujie provides direct factory pricing, technical matching assistance, and full OEM support for every semi hermetic screw compressor. Send us your project parameters, required cooling capacity, operating voltage, or batch requirement today, and our sales engineering team will deliver a comprehensive proposal within 8 hours.



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