



06T UW554 160HP R134a Water Cooled Cold Room AC Screw Compressor With Economizer

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle/Carrier
- Certification: CE
- Model Number: 06T UW554
- 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 60/50Hz: 928 / 769 M3/hr
- Horse Power: 160HP
- Refrigerant: R134a/R22/R404A/R407C/R507/R448A/R449A
- Compressor Type: Water Cooled
- Application: HVAC, Cooling Units, Cold Room
- Highlight: **160HP water cooled screw compressor, R134a cold room AC compressor, screw air compressor with economizer**



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Product Description

06TUW554 160HP R134a Water Cooled Cold Room AC Screw Compressor With Economizer

Maximum Volumetric Displacement for AC Systems

The 06TUW554 AC screw compressor delivers an extraordinary volumetric displacement up to 928 m³/hr (554 cfm at 60Hz), tailored for large commercial water-cooled chillers, central air conditioning plants, and heavy industrial liquid chilling facilities. Driven by a high-torque 160 HP motor operating on R134a, this compressor provides extreme thermal heat removal and rapid temperature pull-down for continuous high-load operations.

Extended Stepless Capacity & Economizer Subcooling

Large facility cooling demands fluctuate drastically, leading to high energy costs and operational strain. The 06TUW554 addresses these challenges with 25%-100% or extended 15%-100% stepless capacity regulation alongside an integrated 1-5/8 inch economizer connection. This setup precisely matches cooling capacity to real-time thermal loads, maximizing COP and minimizing power consumption during part-load cycles.

Heavy-Duty Mechanical Build & Zero-Leakage Security

Built with high-precision rolling bearings, heat-resistant motor windings integrated with internal thermal safeguards, and robust double-casing construction weighing 956 KG, this AC screw compressor maintains structural integrity, low operating vibration, and long-term service reliability under severe industrial chilling conditions.

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	06TUW554
Nominal Power	160HP
Refrigerant Type	R134a
Displacement (60/50Hz)	554 / 462 cfm 928 / 769 m ³ /hr
Capacity Control	Stepless Adjustment 25-100%

Economizer	Y
Voltage (V,A)	06T UW554ST1D 460V-3-60Hz-223A 400V-3-50Hz-209A 06T UW554XT1D 230V-3-60Hz-447A 200V-3-50Hz-417A
Weight	956kg

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					
06T UW483ST1D	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				
06T UW483XT1D						400V-3-50Hz		99	186	226	414	1290					
06T UW483XT1D						230V-3-60Hz		119	397	483	816	2540					
06T UW554ST1D	554 / 462 cfm 928 / 769 m³/hr					200V-3-50Hz	160	99	371	452	828	2590	956				
06T UW554ST1D						460V-3-60Hz		119	223	271	408	1270					
06T UW554XT1D						400V-3-50Hz		99	209	254	414	1290					
06T UW554XT1D						230V-3-60Hz		119	447	544	816	2540					
06T UW554XT1D						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

What systems benefit most from the 06T UW554 compressor's high displacement?

Large-scale commercial water chillers, district cooling systems, and high-capacity industrial liquid process plants require high mass flow, making the 928 m³/hr displacement of the 06T UW554 ideal.

How does the integrated economizer port improve operating efficiency?

The 1-5/8 inch economizer subcools liquid refrigerant before expansion, boosting net cooling capacity and COP without increasing compressor motor power consumption.

What advantage does the 15% -100% capacity control range offer over standard modulation?

It allows smooth operation under extremely low building cooling loads, preventing frequent compressor cycling and reducing electrical current spikes.

What is your standard production lead time for bulk orders?

In-stock samples ship within 3 working days, while full production orders are completed within 10 to 15 business days.

What parameters are required to receive an official price quotation?

Official quotations are provided within 8 hours upon receiving detailed parameters, including cooling capacity, operating voltage, refrigerant, and working conditions.

Commercial Air Conditioning Solution Consultation

As an established supplier and manufacturer of industrial chilling equipment, Ruifujie offers direct factory pricing, tailored technical selection support, and OEM options for every AC 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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