



06TSR186 High-Efficiency 75HP HVAC Screw Compressor with Economizer

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle/Carrier
- Certification: CE
- Model Number: 06TSR186
- 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

- Application: HVAC, Cooling Units, Cold Room
- Refrigerant: R134a/R22/R404A/R407C/R507/R448A/R449A
- Horse Power: 75HP
- Compressor Type: Low-Temperature
- Highlight: 75HP HVAC screw compressor, high-efficiency screw air compressor, screw compressor with economizer



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Product Description

06TSR186 High-Efficiency 75HP HVAC Screw Compressor with Economizer

High-Capacity Performance for Commercial Facilities

The 06TSR186 HVAC screw compressor is built for demanding commercial cooling applications, large-scale water chillers, and industrial refrigeration systems. Delivering a nominal 75 HP rating with high volumetric displacement up to 312 m³/hr (186 cfm at 60Hz), this compressor ensures rapid thermal pull-down, high volumetric efficiency, and consistent temperature maintenance across heavy-duty facilities.

Stepless Capacity Modulation & Power Savings

Facility managers frequently encounter high utility expenses, motor stress from frequent cycling, and operational instability due to fluctuating cooling demands. The 06TSR186 addresses these issues with 25%-100% stepless capacity regulation and built-in economizer capability, dynamically adjusting output to match real-time system loads, lowering part-load power consumption, and reducing overall operating costs.

Engineered Durability & Protective Safeguards

Built with high-precision SKF/NSK anti-friction rolling bearings, high-insulation motor windings equipped with NTC thermal protection sensors, and integrated internal check and safety valves, this HVAC screw compressor provides exceptional mechanical durability, zero-leakage security, and long-term operating reliability in challenging environments.



Technical Specifications

Model	06TSR186
Nominal Power	75 HP
Refrigerant Type	R22/R404A/R507
Displacement (60/50Hz)	186 / 155 cfm 312 / 258 m³/hr
Capacity Control	Stepless Adjustment 25-100%

Economizer	Yes
Voltage (V,A)	06TSR186SJ3D: 460V-3-60Hz-124A, 400V-3-50Hz-120A 06TSR186XJ3D: 230V-3-60Hz-249A, 200V-3-50Hz-227A
Weight	393kg

R22/R404A/R507 Low-Temperature Freezing - 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		
06TSR137SG3D	137 / 114 cfm 229 / 190 m³/hr	3-1/8	2-5/8	1-3/8 Stepless Adjustment 25-100%	460V-3-60Hz	60	45	101	123	162	505	369			
06TSR137XG3D	400V-3-50Hz				37		98	119	160	500					
	230V-3-60Hz				45		203	247	324	1010					
	200V-3-50Hz				37		186	226	320	1000					
06TSR155SJ3D	155 / 129 cfm 260 / 215 m³/hr							460V-3-60Hz	75	56	108	131	174	545	376
								400V-3-50Hz		47	119	145	170	530	
								230V-3-60Hz		56	217	264	348	1090	
06TSR155XJ3D								200V-3-50Hz		47	227	276	340	1060	
06TSR186SJ3D	186 / 155 cfm 312 / 258 m³/hr							460V-3-60Hz	75	56	124	151	174	545	393
								400V-3-50Hz		47	120	146	170	530	
								230V-3-60Hz		56	249	303	348	1090	
06TSR186XJ3D								200V-3-50Hz		47	227	276	340	1060	
06TSR223SM3D	483/403 cfm 809/670 m³/hr	3-1/8	2-5/8	1-3/8 Stepless Adjustment 25-100%	460V-3-60Hz	90	78	166	202	243	758	421			
									400V-3-50Hz	65	160		195	240	750

Company Introduction

Leveraging over two decades of technical advancement in industrial refrigeration, Ruifujie operates as a full-scale enterprise producing top-quality scroll, reciprocating, rotary, semi-hermetic, and twin screw compressors, along with air coolers, quick-freezing systems, and commercial ice equipment. We provide complete OEM/ODM solutions customized to global buyer standards.

Ruifujie exports products across international markets, supplying long-term clients in Russia, the United States, the United Kingdom, Saudi Arabia, the UAE, and other regions. Built on robust manufacturing strength and outstanding product value, Ruifujie continuously receives strong commendation from overseas partners.



Frequently Asked Questions

Q1: What refrigeration equipment is the 06TSR186 compressor best suited for?

A1: The 06TSR186 model is ideal for commercial water chillers, central air conditioning plants, and medium-to-low temperature cold storage facilities requiring continuous heavy-duty cooling output.

Q2: How does the stepless capacity regulation system function under variable load conditions?

A2: Featuring 25%-100% stepless capacity control, the compressor smoothly adjusts its displacement to mirror thermal demand changes, preventing peak power spikes and unnecessary mechanical wear.

Q3: Can the 06TSR186 compressor be configured with an economizer loop?

A3: Yes, it includes a dedicated 1-3/8 inch economizer connection port that facilitates liquid subcooling to significantly increase overall system capacity and efficiency.

Q4: What is your minimum order quantity policy?

A4: In-stock items have no minimum order quantity, while production orders are open for negotiation based on bulk requirement.

Q5: What are your standard delivery times, trade terms, and warranty terms?

A5: Stocked samples ship in 3 days, and full production orders take 10 to 15 business days. Transactions are executed under FOB Shenzhen or EXW terms in USD, backed by a 1-year product warranty.

Project Solution Consultation

As a professional manufacturing supplier with deep industry expertise, Ruifujie delivers complete technical support, factory-direct pricing, and OEM customization for every HVAC screw compressor. Send us your project parameters, required cooling capacity, operating voltage, or purchase volume, and our engineering team will provide a tailored technical proposal within 8 hours.



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