



06TSA186 Series 75HP Semi-Hermetic Twin-Screw Air Conditioning Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Carlyle
- Certification: CE
- Model Number: 06TSA186
- 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: Air-cooled
- Horse Power: 75HP
- Refrigerant: R134a/R22/R404A/R407C/R507/R448A/R449A
- Application: HVAC, Cooling Units, Cold Room
- Highlight: 75HP screw air compressor, semi-hermetic twin-screw compressor, air conditioning compressor with warranty



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Product Description

06TSA186 Series 75HP Semi-Hermetic Twin-Screw Air Conditioning Compressor

Product Description

High-Displacement Performance for Commercial HVAC

The 06TSA186 semi-hermetic twin screw compressor is an industrial-grade cooling unit designed for heavy-duty commercial air conditioning, water chillers, and medium-temperature refrigeration systems. Engineered with a high-efficiency rotor profile and economizer support, this 75 HP screw compressor delivers high volumetric displacement up to 312 m³/hr (186 cfm at 60Hz), offering robust thermal performance and precise temperature regulation for large-scale B2B HVAC installations.

Stepless Capacity Modulation for Energy Optimization

Commercial HVAC operators often face high operational costs, power surges during frequent load variations, and equipment downtime caused by inadequate capacity modulation. The 06TSA186 addresses these critical challenges through 25%-100% stepless capacity control and Y-Δ/direct start options, allowing smooth load matching that significantly lowers energy consumption under part-load conditions while minimizing mechanical stress on internal components.

Industrial Reliability & Advanced Component Protection

Featuring precision SKF/NSK anti-friction rolling bearings, high-strength motor windings with integrated NTC thermal sensors, and an internal check valve/safety valve assembly, the 06TSA186 ensures leak-free compression, enhanced wear resistance, and long-term operating stability across severe environmental conditions.

Product Image



Technical Specification

Model	06TSA186
Nominal Power	75 HP

Refrigerant Type	R134a/R22/R404A/R407C/R507/R448A/R449A
Displacement (60/50Hz)	186 / 155 cfm 312 / 258 m³/hr
Economizer	Y
Weight	393kg

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									
06TSA137SG1D	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	89	108	162	505	369								
06TSA137XG1D						400V-3-50Hz		37	86	105	160	500									
						230V-3-60Hz		47	178	217	324	1010									
						200V-3-50Hz		37	163	198	320	1000									
06TSA155SJ1D	155 / 129 cfm 260 / 215 m³/hr					3-1/8	2-5/8	1-3/8	Stepless Adjustment 25-100%	460V-3-60Hz	75	56	100	122	174	545	376				
06TSA155XJ1D										400V-3-50Hz		47	96	117	170	530					
										230V-3-60Hz		56	200	243	348	1090					
										200V-3-50Hz		47	183	223	340	1060					
06TSA186SJ1D	186 / 155 cfm 312 / 258 m³/hr									3-1/8	2-5/8	1-3/8	Stepless Adjustment 25-100%	460V-3-60Hz	75	56	116	141	174	545	393
06TSA186XJ1D														400V-3-50Hz		47	112	136	170	530	
														230V-3-60Hz		56	233	284	348	1090	
														200V-3-50Hz		47	213	259	340	1060	

Company Introduction

Backed by over two decades of technical expertise in industrial refrigeration, Ruifujie operates as a modern manufacturing enterprise specializing in high-performance scroll, piston, rotary, semi-hermetic, and screw compressors, alongside cold room evaporators, blast freezers, and ice-making machinery. We offer complete OEM/ODM customization services tailored to international project specifications. Ruifujie products are exported worldwide, serving commercial and industrial buyers across Russia, the United States, the United Kingdom, the UAE, Saudi Arabia, and beyond. With proven engineering strength and exceptional cost performance, Ruifujie maintains long-term strategic partnerships with global HVAC/R distributors and contractors.



Frequently Asked Questions

Q1: What are the primary cooling applications for the 06TSA186 screw compressor?

A1: The 06TSA186 semi-hermetic screw compressor is specially designed for commercial air conditioning chillers, medium-temperature process cooling systems, and large-scale industrial HVAC plants requiring high volumetric displacement and reliable continuous operation.

Q2: How does the stepless capacity control feature benefit system operation?

A2: The stepless capacity control (25% to 100%) allows the 06TSA186 compressor to seamlessly match real-time cooling loads, preventing

frequent start-stop cycles, reducing electrical demand surges, and optimizing overall energy efficiency during part-load conditions.

Q3: Is the 06TSA186 compressor compatible with economizer subcooling circuits?

A3: Yes, the 06TSA186 model features a dedicated 1-3/8 inch economizer port designed for R134a systems, enabling subcooling to boost overall cooling capacity and enhance COP in demanding ambient environments.

Q4: What is your minimum order quantity (MOQ) and sample policy?

A4: In-stock items have no minimum order quantity, while production orders are open for negotiation based on bulk requirement. Samples are provided with an upfront fee, which will be fully refunded once the total order quantity meets the required volume threshold.

Q5: What are the standard delivery lead times and warranty terms provided by Ruifujie?

A5: In-stock sample items ship within 3 days, while complete bulk orders are processed and completed within 10 to 15 working days. Ruifujie backs all product categories with a 1-year comprehensive warranty.

Engineering Project Quotation

As an experienced manufacturer and global supplier of commercial refrigeration solutions, Ruifujie provides customized engineering selections, direct factory pricing, and full technical support for every screw air conditioning compressor. Submit your required cooling capacity, operating voltage, refrigerant choice, or batch quantity today, and our technical sales team will deliver a comprehensive proposal within 8 hours.

 **Shenzhen Coolstart Refrigeration Equipment Co., Ltd**



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