



06TSR223 90HP Semi-Hermetic Refrigeration Screw Compressor for Freezing Room

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Carlyle/Carrier
- Certification: CE
- Model Number: 06TSR223
- 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

- Refrigerant: R134a/R22/R404A/R407C/R507/R448A/R449A
- Horse Power: 90HP
- Compressor Type: Low-Temperature
- Application: HVAC, Cooling Units, Cold Room
- Highlight: 90HP refrigeration screw compressor, semi-hermetic screw compressor for freezing, freezing room screw air compressor



More Images



Product Description

06TSR223 90HP Semi-Hermetic Refrigeration Screw Compressor for Freezing Room

High-Volume Performance for Large Cold Chains

The 06TSR223 semi-hermetic refrigeration screw compressor is designed for high-capacity industrial cooling, large-scale commercial cold storage facilities, and quick-freezing application plants. Featuring a powerful 90 HP rated output and an impressive maximum displacement of up to 809 m³/hr (483 cfm at 60Hz), this refrigeration screw compressor delivers continuous high volumetric efficiency, ensuring rapid thermal reduction and stable temperature control for large commercial facilities.

Stepless Capacity Control for Variable Load Efficiency

Operators of industrial refrigeration plants often struggle with severe energy waste, power surges during high-load startups, and accelerated wear on compressor components under varying operating conditions. The 06TSR223 solves these critical operational challenges through 25%-100% stepless capacity regulation and built-in economizer connection capability, allowing flexible load matching that minimizes power draw and reduces operational strain during off-peak periods.

Industrial Mechanical Reliability & Built-In Safety

Built with high-precision SKF/NSK anti-friction rolling bearings, high-efficiency motor windings with integrated NTC thermal protection sensors, and an internal check/safety valve assembly, this refrigeration screw compressor offers exceptional wear resistance, leak-free compression, and reliable continuous operation under severe industrial conditions.

Product Image



Technical Specifications

Model	06TSR223
Nominal Power	90 HP
Refrigerant Type	R22/R404A/R507
Displacement (60/50Hz)	483/403 cfm 809/670 m³/hr
Capacity Control	Stepless Adjustment 25-100%
Economizer	Y

Voltage (V,A)	06TSR223SM3D 460V-3-60Hz-166A 400V-3-50Hz-160A
Weight	421kg

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

Company Introduction

With over two decades of engineering specialization in thermal and refrigeration equipment, Ruifujie operates as a modernized manufacturing enterprise producing top-quality scroll, piston, rotary, semi-hermetic, and twin-screw compressors, alongside evaporators, blast freezing tunnels, and commercial ice machines. We offer tailored OEM/ODM manufacturing capabilities to fulfill diverse international engineering standards. Ruifujie exports products worldwide, supplying major commercial contractors across Russia, the United States, the United Kingdom, Saudi Arabia, the United Arab Emirates, and beyond. Through sustained technical quality and exceptional cost efficiency, Ruifujie maintains strong, long-term partnerships with global refrigeration buyers.



Frequently Asked Questions

Q1: What refrigeration installations are best suited for the 06TSR223 model?

A1: The 06TSR223 semi-hermetic compressor is designed for high-capacity industrial applications, including large logistics cold rooms, food freezing tunnels, and central process chillers requiring high volumetric displacement up to 809 m³/hr.

Q2: How does the 25% -100% stepless capacity regulation benefit system performance?

A2: Stepless capacity regulation allows the compressor to smoothly match varying thermal loads, preventing frequent compressor cycling, mitigating electrical demand spikes, and significantly reducing power consumption under part-load conditions.

Q3: What electrical voltage standards are supported by the 06TSR223 compressor?

A3: The 06TSR223 model is configured for heavy-duty industrial power grids, supporting 460V-3-60Hz and 400V-3-50Hz voltage setups.

Q4: What is your MOQ policy?

A4: In-stock items have no minimum order quantity, production orders are open for negotiation.

Q5: What are your standard delivery lead times?

A5: In-stock sample items ship within 3 days, while complete bulk orders are processed and completed within 10 to 15 working days.

One-Stop Procurement Solution

As a trusted international supplier of industrial refrigeration equipment, Ruifujie delivers factory-direct pricing, complete system integration advice, and OEM customization for every refrigeration screw compressor. Submit your required cooling capacity, operating voltage, refrigerant choice, or batch quantity today, and our expert technical sales team will provide a comprehensive quotation within 8 hours.

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