



Hanbell RC2-550B-Z RC2-550B-W 195HP Semi Hermetic Screw Compressor for Industrial Chiller

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-550B-Z, RC2-550B-W
- 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

- Horse Power(60/50Hz): 195/162 HP
- Compressor Type: Air/Water Cooled
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Displacement 60/50Hz: 660/549 M3/hr
- Highlight: Hanbell semi hermetic screw compressor, industrial chiller screw compressor, 195HP screw air compressor



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Product Description

Hanbell RC2-550B-Z RC2-550B-W 195HP Semi Hermetic Screw Compressor for Industrial Chiller

Product Overview

Multinational Patents of High-Efficiency Screw Rotors

The RC2-550B features an advanced 5:6 high-efficiency screw rotor profile patented in Taiwan, the UK, the US, and China. Engineered specifically for modern refrigerant characteristics, these rotors are manufactured using precision CNC machining centers, rotor milling, and grinding equipment under strict ISO 9001 process controls. Verified by ZEISS 3D coordinate measuring machines, the rotor geometry delivers high displacement, maximum volumetric efficiency, low noise, and minimal operation vibration.

Long Life Bearings & High Reliability

Engineered to withstand heavy dynamic loads, the compressor incorporates a combination of 10 axial and radial bearings paired with an α axial balance piston. This design effectively counteracts compression thrust forces, minimizing mechanical shaft displacement and significantly extending total bearing operational life.

Adaptable with Additional Cooling

Designed for ultimate versatility in varying ambient and heavy-duty conditions, the unit is built with dedicated auxiliary connection ports. It features liquid injection ports located at the motor casing and compression chamber, external oil cooler ports, and a middle-pressure economizer port to boost part-load efficiency.

Application Areas

Commercial HVAC Chillers: Designed as a core component for large-capacity water-cooled and air-cooled liquid chillers operating in commercial buildings, hospitals, and central HVAC facilities.

District & Industrial Cooling: Well-suited for large-scale central air conditioning equipment and process fluid cooling plants requiring precise dynamic capacity control.

Commercial Cold Storage: Ideal for medium and low-temperature cold rooms, agricultural precooling facilities, and large-scale food distribution hubs.

Product Image



Technical Specifications

Model	RC2-550B-Z/RC2-550B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power (60Hz/50Hz)	195/162HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement (60/50Hz)	660/549 m³/hr
Capacity Control (Step)	25-50-75-100%
Capacity Control (Stepless)	25-100%
Lubricant Charge	23L
Oil Heater	150/300W
Weight	850Kg

Model	Compressor				Type	Motor								Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight			
	Displacement 60 / 50Hz m³/hr	Rated Speed 60/50Hz	VI	Cap.Control(%)		Nominal Hp 60Hz 50Hz	Starting	Voltage(V)		Insulation	Protection	L	W					Kg/cm2G	Kg	
				STEP				STEPLESS	60Hz											50Hz
RC2-100B	118/98	3550/2950	2.2 2.6 3.0 3.5 4.8	33-66-100	33-100	38	31	Y-Δ PWS DOL	208 220 230 380 440 460 480 575	Class F	PTC Protection	7	150/300	42		280				
RC2-140B	165/137			33-66-100	33-100	50	41					7				285				
RC2-180B	216/180			33-66-100	33-100	66	55					7				390				
RC2-200B	233/193			25-50-75-100	25-100	70	58					8				425				
RC2-230B	277/230			35-50-75-100	25-100	83	69					14				555				
RC2-260B	309/257			25-50-75-100	25-100	90	75					14				560				
RC2-300B	352/293			25-50-75-100	25-100	107	89					16				600				
RC2-310B	371/308			35-50-75-100	35-100	110	91					16				580				
RC2-320B	384/320			25-50-75-100	25-100	114	94					16				600				
RC2-340B	407/339			35-50-75-100	35-100	121	101					16				620				
RC2-370B	440/366			35-50-75-100	35-100	130	108					16				640				
RC2-410B	490/407			25-50-75-100	25-100	146	121		380 400 415	Class F	PTC Protection	16				740				
RC2-470B	567/471			25-50-75-100	25-100	170	141					18				810				
RC2-510B	611/508			35-50-75-100	35-100	183	152					20				780				
RC2-550B	660/549			25-50-75-100	25-100	195	162					23				850				
RC2-580B	702/583			35-50-75-100	35-100	210	175					20				840				
RC2-620B	745/619			35-50-75-100	35-100	220	183					23				880				
RC2-710B	858/713			35-50-75-100	35-100	250	208					28				1099				
RC2-790B	952/791			30-50-75-100	25-100	276	230					28				1180				
RC2-830B	993/825			35-50-75-100	35-100	290	234					28				1215				
RC2-930B	1117/929			35-50-75-100	35-100	334	278	Y-Δ DOL				28				1240				
RC2-1020B	1223/1017			25-50-75-100	25-100	357	297					40				1540				
RC2-1130B	1350/1122			25-50-75-100	25-100	393	327					40				1560				
RC2-1270B	1521/1268			25-50-75-100	25-100	471	392					53				2200				
RC2-1530B	1847/1539			25-50-75-100	25-100	534	443					53				2300				

Company Introduction

Ruifujie is an established international manufacturer and exporter of commercial refrigeration machinery and core system components. Specializing in heavy-duty commercial compressors, unit coolers, and custom cold storage assemblies, we serve mechanical contractors, system integrators, and OEM equipment manufacturers across Europe, the Americas, and the Middle East. Our engineering-first focus ensures strict compliance with international mechanical standards, factory-direct price competitiveness, and dependable global project delivery.



Frequently Asked Questions

Q1: What are the capacity and power specs for the RC2-550B at 50Hz vs 60Hz?

A: At 50Hz, it provides 549 m³/hr displacement with a nominal power of 162 HP. At 60Hz, it delivers 660 m³/hr displacement with a 195 HP nominal rating.

Q2: What capacity control options are built into the RC2-550B?

A: It offers 4-stage stepped capacity regulation (25%-50%-75%-100%) as well as continuous stepless regulation (25%-100%) for efficient part-load matching.

Q3: How does the economizer connection port improve system performance?

A: Connecting a sub-cooling economizer circuit via the middle-pressure port increases system cooling capacity with minimal added power consumption, optimizing efficiency under variable loads.

Q4: What is the delivery lead time for commercial B2B orders?

A: In-stock sample units dispatch within 3 business days, while volume commercial manufacturing contracts are typically completed in 10 to 15 working days.

Q5: Can Ruifujie supply OEM branded compressors and customized technical nameplates?

A: Yes, Ruifujie provides comprehensive OEM/ODM solutions, including custom multi-language metal nameplates, tailored motor voltage wiring, and private labeling.

Partner with Ruifujie Engineering

Upgrading your HVAC chiller line or sourcing high-capacity semi hermetic screw compressor units for an upcoming commercial project? Contact the Ruifujie technical department today for engineering selection support and factory-direct B2B pricing.

To receive a detailed quotation within 8 hours, please include your required Model, Quantity, Refrigerant, Voltage/Frequency, and Operating Conditions in your request.

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