



Hanbell RC2-930B-Z RC2-930B-W Semi Hermetic Screw Type Compressor for Large Cold Room

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-930B-Z, RC2-930B-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

- Refrigerant: R134a, R22, R407C, R404A, R507A
- Compressor Type: Air/Water Cooled
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Horse Power(60/50Hz): 334/278 HP
- Displacement 60/50Hz: 1117/929 M3/hr
- Highlight: Hanbell semi hermetic screw compressor, large cold room screw compressor, RC2-930B screw air compressor



More Images



Product Description

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Product Features

Multinational Patents of High-Efficiency Screw Rotors

The RC2-930B features an advanced 5:6 high-efficiency screw rotor profile patented across Taiwan, the UK, the US, and China. Manufactured using high-precision CNC machining centers, rotor milling, and grinding machines, the rotor geometry undergoes strict ISO 9001 process quality controls and ZEISS 3D coordinate inspection. This design delivers maximum displacement, exceptional volumetric efficiency, low noise, and minimal structural vibration.

Long Life Bearings & High Reliability

Engineered for continuous heavy-duty service, this semi hermetic screw type compressor combines 10 radial and axial bearings with an α axial balance piston. This balanced structural arrangement actively counteracts dynamic compression thrust forces, minimizing axial shaft movement and substantially extending overall bearing operating life.

Precise Capacity Control Mechanism

Equipped with an internal slide valve positioned directly in the compression chamber, the RC2-930B provides dynamic load modulation to handle fluctuating system demands. Actuated by pressurized oil injection and solenoid valves with precise pressure differentials, it supports either 4-stage stepped capacity control (35%-50%-75%-100%) or continuous stepless regulation (35%-100%).

Application Areas

Large Commercial Central HVAC: Designed as a primary cooling core for high-tonnage water-cooled and air-cooled liquid chillers serving airport terminals, commercial complexes, and high-rise developments.

District Cooling Stations: Suited for heavy-duty centralized air conditioning facilities that utilize multi-compressor parallel arrangements under variable seasonal cooling loads.

Industrial Process Refrigeration: Ideal for high-capacity liquid chilling loops in chemical, pharmaceutical, and food processing plants that demand precise part-load control.

Product Image



Technical Specifications

Model	RC2-930B-Z/RC2-930B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power(60Hz/50Hz)	334/278HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement(60/50Hz)	1117/929 m³/hr
Capacity Control(Step)	35-50-75-100%
Capacity Control(Stepless)	35-100%
Lubricant Charge	28L
Oil Heater	150/300W
Weight	1240Kg

Model	Compresso				Motor						Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight			
	Displacement 60 / 50Hz m3/hr	Rated Speed 60/50Hz	VI	Cap.Control(%)		Type	Nominal Hp		Starting	Voltage(V)					Insulation	Protection	
				STEP	STEPLESS		60Hz	50Hz		60Hz							50Hz
RC2-100B	118/98			33-66-100	33-100		38	31							280		
RC2-140B	165/137			33-66-100	33-100		50	41							285		
RC2-180B	216/180			33-66-100	33-100		66	55		208					390		
RC2-200B	233/193			25-50-75-100	25-100		70	58		220					425		
RC2-230B	277/230			35-50-75-100	25-100		83	69		230					555		
RC2-260B	309/257			25-50-75-100	25-100		90	75		380					560		
RC2-300B	352/293			25-50-75-100	25-100		107	89		440					600		
RC2-310B	371/308			25-50-75-100	35-100		110	91	Y-Δ	460					580		
RC2-320B	384/320			25-50-75-100	25-100		114	94	PWS	480					600		
RC2-340B	407/339			35-50-75-100	35-100		121	101	DOL	575					620		
RC2-370B	440/366		2.2	35-50-75-100	35-100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	130	108							640		
RC2-410B	490/407		2.6	25-50-75-100	25-100		146	121							740		
RC2-470B	567/471		3.0	25-50-75-100	25-100		170	141							810		
RC2-510B	611/508		3.5	35-50-75-100	35-100		183	152		380		Class F	PTC Protection		780		
RC2-550B	660/549		4.8	25-50-75-100	25-100		195	162		400					850		
RC2-580B	702/583			35-50-75-100	35-100		210	175		415					840		
RC2-620B	745/619			35-50-75-100	35-100		220	183		380					880		
RC2-710B	858/713			35-50-75-100	35-100		250	208		460					1099		
RC2-790B	952/791			30-50-75-100	25-100		276	230		480					1180		
RC2-830B	993/825			35-50-75-100	35-100		290	234		575					1215		
RC2-930B	1117/929			35-50-75-100	35-100	334	278	Y-Δ						1240			
RC2-1020B	1223/1017			25-50-75-100	25-100	357	297	DOL						1540			
RC2-1130B	1350/1122			25-50-75-100	25-100	393	327							1560			
RC2-1270B	1521/1268			25-50-75-100	25-100	471	392							2200			
RC2-1530B	1847/1539			25-50-75-100	25-100	534	443							2300			

Company Introduction

Ruifujie brings over two decades of technical expertise and global export capability to the B2B refrigeration and HVAC marketplace. We deliver comprehensive cooling solutions—from scroll, semi-hermetic, and screw compressors to customized unit coolers and commercial cold storage systems. Our commitment to strict factory quality controls, competitive direct-from-factory pricing, and reliable lead times makes us a trusted supply chain partner for HVAC OEMs, mechanical contractors, and engineering firms worldwide.



Frequently Asked Questions

Q1: How does the RC2-930B maintain stable oil temperature under high-head pressure conditions?

The unit features built-in liquid injection connection ports and external oil cooler ports, enabling engineers to implement active oil cooling loops to prevent lubricant breakdown during extreme operating conditions.

Q2: How does the hydraulic slide valve prevent short-cycling in large chiller plants?

By providing continuous stepless regulation down to 35% capacity, the slide valve smoothly modulates output to match part-load thermal demands without requiring complete compressor shut-off cycles.

Q3: How does the integrated electronic module protect against electrical faults?

Embedded PTC thermistors linked to an electronic protection module actively monitor motor coil temperature, discharge gas heat, phase loss, and phase sequence errors.

Q4: What is the typical fulfillment timeframe for global commercial orders?

Standard sample units ship within 3 business days, while volume commercial manufacturing contracts are typically completed in 10 to 15 working days.

Q5: Can Ruifujie support customized technical specifications or private labeling?

Yes, we provide complete OEM/ODM options, including customized metal nameplates, private labeling, and specialized electrical motor configurations tailored to regional power grids.

Connect with Our AC Engineering Team

Upgrading your commercial chiller line or sourcing high-capacity screw units for an upcoming commercial build? Contact the Ruifujie engineering department to receive tailored selection advice, technical datasheets, and direct factory wholesale pricing.

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



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