



Hanbell RC2-510B-Z RC2-510B-W Refrigeration Screw Compressor for Cold Storage

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-510B-Z, RC2-510B-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

- Displacement 60/50Hz: 611/508 M3/hr
- Compressor Type: Air/Water Cooled
- Horse Power(60/50Hz): 183/152 HP
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Highlight: Hanbell refrigeration screw compressor, cold storage screw compressor, RC2-510B-Z screw air compressor



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Product Description

Hanbell RC2-510B-Z RC2-510B-W Refrigeration Screw Compressor for Cold Storage

Product Description

High Efficiency Motor & Suction Cooling Design

The RC2-510B utilizes a premium grade low-loss core steel motor combined with a specialized internal cooling slot and refrigerant guide vane. Cold suction refrigerant gas is guided directly through the motor cavity, maintaining peak operational efficiency and effective heat dissipation even under demanding continuous B2B cooling conditions.

Direct Flange-On Oil Separator

Equipped with a direct flange-on vessel crafted from high-strength ductile iron (FC500), the oil separator is engineered to withstand high working pressures while delivering maximum oil separation efficiency. Featuring a low-pressure-drop demister, this system simplifies oil management, minimizes refrigerant dilution in the lubricant, and maintains high oil viscosity across system cycles.

Perceptive Protection Modules & System Monitoring

Built for uninterrupted industrial performance, the RC2-510B comes standard with PTC thermistors and an advanced electronic protection module. The system continuously monitors discharge gas temperatures, motor coil heat, phase sequence, and phase loss, with optional compatibility for oil level switches, differential pressure switches, and safety pressure relief valves.

Application Areas

Large Cold Storage Centers: Engineered for high-capacity medium-and-low-temperature logistics warehouses and agricultural precooling hubs requiring consistent refrigeration screw compressor performance.

Commercial Central HVAC: Ideal for large-capacity water-cooled and air-cooled liquid chillers operating in commercial complexes, hospitals, and high-rise office towers.

Industrial Process Cooling: Well-suited for heavy-duty process cooling systems in chemical, pharmaceutical, and manufacturing plants operating under variable dynamic loads.

Product Image



Technical Specification

Model	RC2-510B-Z/RC2-510B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power(60Hz/50Hz)	183/152HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement(60/50Hz)	611/508 m³/hr
Capacity Control(Step)	35-50-75-100%
Capacity Control(Stepless)	35-100%
Lubricant Charge	20L
Oil Heater	150/300W
Weight	780Kg

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
								60Hz	50Hz						
RC2-100B	118/98			33-66-100 33-100	38 31							L	W	Kg/cm2G	Kg
RC2-140B	165/137			33-66-100 33-100	50 41										280
RC2-180B	216/180			33-66-100 33-100	66 55			208							285
RC2-200B	233/193			25-50-75-100 25-100	70 58			220							390
RC2-230B	277/230			35-50-75-100 25-100	83 69			230							425
RC2-260B	309/257			25-50-75-100 25-100	90 75			380							555
RC2-300B	352/293			25-50-75-100 25-100	107 89	Y-Δ		440							560
RC2-310B	371/308			35-50-75-100 35-100	110 91	PWS		460							600
RC2-320B	384/320			25-50-75-100 25-100	114 94	DOL		480							580
RC2-340B	407/339			35-50-75-100 35-100	121 101			575							600
RC2-370B	440/366		2.2	35-50-75-100 35-100	130 108	3 Phase, 2 Pole, Squirrel Cage, Induction Motor									620
RC2-410B	490/407		2.6	25-50-75-100 25-100	146 121				380						640
RC2-470B	567/471	3550/2950	3.0	25-50-75-100 25-100	170 141				400	Class F	PTC		150/300	42	740
RC2-510B	611/508		3.5	35-50-75-100 35-100	183 152				415		Protection				810
RC2-550B	660/549		4.8	25-50-75-100 25-100	195 162										780
RC2-580B	702/583			35-50-75-100 35-100	210 175										850
RC2-620B	745/619			35-50-75-100 35-100	220 183				380						840
RC2-710B	858/713			35-50-75-100 35-100	250 208				440						880
RC2-790B	952/791			30-50-75-100 25-100	276 230				460						1099
RC2-830B	993/825			35-50-75-100 35-100	290 234				480						1180
RC2-930B	1117/929			35-50-75-100 35-100	334 278	Y-Δ		575						1215	
RC2-1020B	1223/1017			25-50-75-100 25-100	357 297	DOL								1240	
RC2-1130B	1350/1122			25-50-75-100 25-100	393 327									1540	
RC2-1270B	1521/1266			25-50-75-100 25-100	471 392									1560	
RC2-1530B	1847/1539			25-50-75-100 25-100	534 443									2200	
														2300	

Company Introduction

Ruifujie stands as a trusted B2B supply partner and manufacturer in global refrigeration technology. Operating with an international export focus, we combine rigorous factory quality control with full-spectrum supply chain integration—delivering everything from scroll and screw compressors to complete cold storage system assemblies. Overseas project contractors and HVAC OEMs rely on Ruifujie for technical compliance, stable lead times, and tailored product modifications that keep large-scale projects on schedule and within budget.



FAQ

Q1: What are the primary power and displacement specifications for the RC2-510B?

A: Operating at 50Hz, the unit delivers 508 m³/hr displacement with a nominal 152 HP. At 60Hz, it provides 611 m³/hr displacement with an 183 HP rating.

Q2: What capacity control options are integrated into this model?

A: The RC2-510B supports 4-stage stepped capacity control (35%-50%-75%-100%) as well as continuous stepless modulation (35%-100%) for variable dynamic load matching.

Q3: Which electrical starting configurations are supported on this model?

A: The compressor motor supports Star-Delta (Y-Δ), Part-Winding Start (PWS), and Direct-On-Line (DOL) wiring configurations.

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

A: 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?

A: Yes, we provide complete OEM/ODM options, including customized nameplates, branding, and specialized electrical motor configurations tailored to regional power grids.

Connect with Our HVAC Technical Team

Upgrading your commercial refrigeration line or sourcing high-capacity screw units for an upcoming project? 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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