



Hanbell RC2-830B-Z RC2-830B-W High Capacity Screw Air Conditioning Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-830B-Z, RC2-830B-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): 290/234 HP
- Compressor Type: Air/Water Cooled
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Displacement 60/50Hz: 993/825 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: Hanbell high capacity screw compressor, RC2-830B screw air conditioning compressor, screw air compressor with warranty



More Images



Product Description

Hanbell RC2-830B-Z RC2-830B-W High Capacity Screw Air Conditioning Compressor

Product Overview

The RC2-830B series represents advanced screw compressor technology designed for demanding commercial HVAC applications.

High Efficiency Motor & Integrated Suction Cooling

Equipped with a high-efficiency 3-phase, 2-pole squirrel-cage induction motor built from premium grade low-loss core steel and Class F insulation. Designed with specialized internal cooling slots and guide vanes, the motor is continuously cooled by cold suction refrigerant gas, maintaining peak operational efficiency even under continuous high-load commercial HVAC demands.

Double-Walled Rotor Housing

Constructed with a double-walled gray cast iron (FC25) body featuring high-strength internal reinforcement ribs, the housing minimizes operating sound and mechanical vibration. The durable casing prevents thermal expansion under high condensing pressures, maintaining tight internal tolerances and ensuring exceptional rigidity and service life.

Perceptive Protection Modules & System Monitoring

Built for maximum system reliability, this screw air conditioning compressor comes standard with embedded PTC thermistors and an advanced electronic protection module. It actively monitors discharge gas temperatures, motor coil heat, phase loss, and phase sequence errors. It also supports optional integrations for oil level switches, differential pressure switches, and safety pressure relief valves.

Application Areas

Large Commercial Central HVAC: Engineered for high-capacity water-cooled and air-cooled liquid chillers operating in commercial complexes, airports, and high-rise office towers.

District Cooling Stations: Ideal as a primary screw air conditioning compressor for large-scale centralized district HVAC setups utilizing multi-compressor parallel configurations.

Industrial Process Water Cooling: Well-suited for high-tonnage process liquid chillers in pharmaceutical, chemical, and manufacturing facilities requiring precise capacity modulation.

Product Visualization



Model	Compressor				Motor								Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight
	Displacement 60 / 50Hz m ³ /hr	Rated Speed 60/50Hz	VI	Cap.Control(%)	Type	Nominal Hp		Starting	Voltage(V)		Insulation	Protection				
						STEP	STEPLESS		60Hz	50Hz						
RC2-100B	118/98	3550/2950	2.2 3.0 3.5 4.8	33-66-100	33-100	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	38	31	Y-Δ PWS DOL	208 220 230 380 440 460 480 575	Class F	PTC Protection	L	W	Kg/cm ² G	Kg
RC2-140B	165/137			33-66-100	33-100		50	41					7	280		
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	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	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						

Technical Specifications

Model	RC2-830B-Z/RC2-830B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power (60Hz/50Hz)	290/234 HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement (60/50Hz)	993/825 m ³ /hr
Capacity Control (Step)	35-50-75-100%
Capacity Control (Stepless)	35-100%
Lubricant Charge	28L
Oil Heater	150/300W
Weight	1215 Kg

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

How does the motor protection system prevent damage during extreme summer peak loads?

The compressor relies on continuous motor cooling via cold suction gas, reinforced by internal PTC thermistors that actively monitor coil and discharge gas temperatures, triggering protective modules before thermal thresholds are exceeded.

How does the slide valve maintain efficiency when the central chiller operates at partial capacity?

An internal hydraulic slide valve offers 4-stage stepped regulation (35%-50%-75%-100%) or continuous stepless regulation (35%-100%), matching fluctuating cooling loads without unnecessary energy loss or equipment cycling.

Can this model be configured with auxiliary oil cooling for high pressure ratios?

Yes, the compressor body features built-in liquid injection connection ports and external oil cooler ports, enabling flexible thermal management setups for heavy-duty operating conditions.

What is your standard B2B order fulfillment timeframe?

In-stock sample units ship within 3 business days, while volume commercial manufacturing orders are fulfilled within 10 to 15 working days.

Can Ruifujie provide customized motor voltages and OEM nameplates?

Yes, we provide full OEM/ODM support, including customized multi-language metal nameplates, private labeling, and specific motor electrical configurations matching regional grid requirements.

Connect with Our AC Engineering Team

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

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



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