



RC2-100B-Z RC2-100B-W High-Efficiency Screw Refrigeration Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-100B-Z, RC2-100B-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

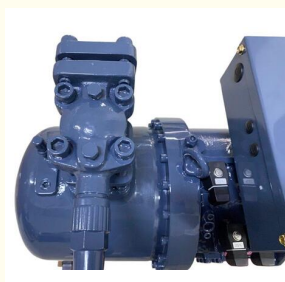


Product Specification

- Application: HVAC, Cooling Units, Cold Room
- Compressor Type: Air/Water Cooled
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Horse Power(60/50Hz): 38/31 HP
- Displacement 60/50Hz: 118/98 M3/hr
- Highlight: **High-Efficiency Screw Refrigeration Compressor**
, RC2-100B-Z Screw Air Compressor,
RC2-100B-W Refrigeration Compressor



More Images



Product Description

RC2-100B-Z RC2-100B-W High-Efficiency Screw Refrigeration Compressor

Product Features

Patented 5:6 Rotor & Mechanical Design

The RC2-100B features a precise two-shaft rotary displacement design utilizing advanced 5:6 patented screw rotors. This robust construction eliminates vulnerable components like pistons and valve plates, resulting in a low-noise, minimized-vibration screw refrigeration compressor that delivers continuous mechanical stability for industrial applications.

High-Efficiency Motor & Cooling System

Equipped with a 3-phase, 2-pole squirrel-cage induction motor built from premium low-loss core steel. The motor is effectively cooled by suction refrigerant vapor guided through special cooling slots, ensuring optimal operating efficiency even under strict B2B operating conditions.

Long-Life Bearings & Structural Reliability

The compressor utilizes a highly reliable combination of 10 axial and radial bearings, complemented by an axial balance piston to significantly extend bearing life. Encased in a double-walled rotor housing crafted from high-strength FC25 gray cast iron, it withstands high-pressure environments without expansion.

Precise Capacity Control & Adaptability

Engineered to match dynamic system loads, this screw refrigeration compressor offers highly accurate capacity adjustment (33%-66%-100% stepped or 33%-100% stepless). It is fully adaptable with additional cooling connections for liquid injection, oil coolers, and middle pressure economizers to meet diverse project requirements.

Integrated Protection & Accessories

Oil Management: Direct flange-on FC500 ductile iron oil separator ensures minimal refrigerant dilution and maintains high oil viscosity.

Safety Modules: Built-in PTC thermistors and a motor protection module actively monitor discharge temperature, coil temperature, phase sequence, and phase loss.

Available Accessories: Oil level switch, pressure differential switch, and pressure relief valve.

Applications

Commercial Central HVAC: Suitable for large-scale commercial air conditioning systems demanding stable, continuous, and efficient cooling performance.

Industrial Refrigeration: Designed for manufacturing plants and chemical processing facilities where precise temperature control and system durability are required.

Cold Storage Facilities: Ideal for medium to large temperature-controlled warehouses, ensuring consistent thermal management for perishable goods.

Product Image



Technical Specifications

Model	RC2-100B-Z/RC2-100B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power (60Hz/50Hz)	38/31HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement (60/50Hz)	118/98 m³/hr
Capacity Control (Step)	33-66-100%
Capacity Control (Stepless)	33-100%
Lubricant Charge	7L
Oil Heater	150/300W
Weight	280Kg

Model	Compressor				Type	Motor							Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight	
	Displacement 60 / 50Hz	Rated Speed	VI	Cap.Control(%)		Nominal Hp		Starting	Voltage(V)		Insulation	Protection					
				STEP		STEPLESS	60Hz		50Hz	60Hz							50Hz
RC2-100B	118/98			33-66-100	33-100	38	31			60Hz	50Hz			L	W	Kg/cm2G	Kg
RC2-140B	165/137			33-66-100	33-100	50	41							7			285
RC2-180B	216/180			33-66-100	33-100	66	55			208				7			390
RC2-200B	233/193			25-50-75-100	25-100	70	58			220				8			425
RC2-230B	277/230			35-50-75-100	25-100	83	69			230				14			555
RC2-260B	309/257			25-50-75-100	25-100	90	75			280				14			560
RC2-300B	352/293			25-50-75-100	25-100	107	89			440				16			600
RC2-310B	371/308			35-50-75-100	35-100	110	91			460				16			580
RC2-320B	384/320			25-50-75-100	25-100	114	94			480				16			600
RC2-340B	407/339			35-50-75-100	35-100	121	101			575				16			620
RC2-370B	440/366		2.2	35-50-75-100	35-100	130	108							16			640
RC2-410B	490/407		2.6	25-50-75-100	25-100	146	121			380				16			740
RC2-470B	567/471		3.0	25-50-75-100	25-100	170	141			400		Class F		18			810
RC2-510B	611/508		3.5	35-50-75-100	35-100	183	152			415			PTC Protection	20	150/300	42	780
RC2-550B	660/549		4.8	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			380				23			880
RC2-710B	858/713			35-50-75-100	35-100	250	208			440				28			1099
RC2-790B	952/791			30-50-75-100	25-100	276	230			460				28			1180
RC2-830B	993/825			35-50-75-100	35-100	290	234			480				28			1215
RC2-930B	1117/929			35-50-75-100	35-100	334	278			575				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

With over 20 years of dedicated experience in the refrigeration industry, Ruifujie is a modern, large-scale manufacturing enterprise. Our extensive product portfolio includes scroll, reciprocating, rotary, semi-hermetic, and screw compressors, alongside premium cold storage and ice-making equipment. We provide comprehensive OEM and ODM customization services and have built long-term, stable partnerships with global B2B buyers across Russia, the United States, the United Kingdom, the United Arab Emirates, Saudi Arabia, and beyond. We are committed to delivering exceptional refrigeration technology and highly cost-effective solutions.



Frequently Asked Questions

Q1: What refrigerants are compatible with the RC2-100B model?

This model is specifically designed to operate efficiently with R22, R407C, R404A, and R507A refrigerants, making it highly adaptable to a variety of standard refrigeration systems.

Q2: Does this compressor offer flexible capacity control?

Yes, it features precise capacity control to perfectly match your system's load demands. It supports either a stepped configuration (33%-66%-100%) or a stepless adjustment range (33%-100%).

Q3: What safety and motor protection features are included?

The compressor is equipped with PTC thermistors and an advanced motor protection module that continuously monitors discharge temperatures, motor coil temperatures, phase sequence, and protects against phase loss.

Q4: What is your standard delivery time for wholesale orders?

For in-stock samples, we arrange shipment within 3 days. For bulk production orders, the standard lead time is 10 to 15 working days.

Q5: Do you provide OEM customization for this product?

Yes, Ruifujie offers comprehensive OEM and ODM services. This includes multi-language customization for logos and nameplates to ensure the product perfectly suits your local market needs.

Request a Quote

Ready to integrate this robust compressor into your next commercial or industrial project? Contact the Ruifujie team today for competitive B2B pricing and expert technical support.

Please provide your required Model, Quantity, Refrigerant, Voltage, Operating Conditions, and Project Requirements to help us quote within 8 hours.



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