



Hanbell RC2-340B-Z RC2-340B-W Semi Hermetic Screw Type Compressor for AC Unit

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-340B-Z, RC2-340B-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: 407/339 M3/hr
- Horse Power(60/50Hz): 121/101 HP
- Compressor Type: Air/Water Cooled
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Highlight: Hanbell semi hermetic screw compressor, RC2-340B-Z AC unit compressor, screw air compressor with warranty



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Product Description

Hanbell RC2-340B-Z RC2-340B-W Semi Hermetic Screw Type Compressor for AC Unit

Product Features

Patented 5:6 Screw Rotor Geometry

The RC2-340B incorporates an advanced 5:6 patented screw rotor profile machined using high-precision CNC gear grinding machinery. By eliminating wearing parts such as pistons, wrist pins, and suction/discharge valve plates, this semi hermetic screw type compressor achieves low operating noise, minimal vibration, and continuous mechanical endurance.

High-Efficiency Motor & Suction Vapor Cooling

Powered by a 3-phase, 2-pole squirrel-cage induction motor built from premium low-loss core steel with Class F insulation. The motor is directly cooled by cold suction refrigerant gas guided through internal channels and guide vanes, enabling the semi hermetic screw type compressor to maintain high operating efficiency under heavy B2B thermal loads.

Reinforced Housing & Extended Bearing Assembly

Constructed with a double-walled gray cast iron (FC25) body with inner reinforcement ribs to prevent housing expansion under high operating pressures. Internal mechanical stability is supported by an array of 10 radial and axial bearings paired with an α balance piston to neutralize rotor dynamic thrust loads and prolong overall bearing service life.

Flexible Capacity Regulation & Auxiliary Ports

Engineered to handle fluctuating thermal demands, it features an internal hydraulic slide valve supporting 4-stage step capacity control (35%-50%-75%-100%) or continuous stepless regulation (35%-100%). Integrated connection ports easily accommodate liquid injection circuits, external oil coolers, and economizer sub-cooler connections.

Integrated Oil Management & Electronic Safeguards

Oil Separation: Direct flange-on FC500 ductile iron oil separator minimizes refrigerant dilution and maintains high lubricant viscosity.

Electronic Safety: Equipped with embedded PTC thermistors and a protective motor module monitoring coil temperatures, discharge gas heat, phase sequence, and phase loss.

Available Accessories: Compatible with oil level switches, differential pressure switches, and safety pressure relief valves.

Application Areas

Commercial Central HVAC: Well-suited for large water-cooled and air-cooled liquid chillers operating in commercial buildings, shopping malls, and central HVAC facilities.

Industrial Process Cooling: Ideal for precision liquid chillers in chemical, pharmaceutical, and manufacturing plants requiring continuous load matching.

Cold Storage Facilities: Designed for medium-temperature refrigeration systems, cold room facilities, and agricultural precooling installations.

Product Image



Technical Specifications

Model	RC2-340B-Z/RC2-340B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power (60Hz/50Hz)	121/101 HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement (60/50Hz)	407/339 m³/hr
Capacity Control (Step)	35-50-75-100%
Capacity Control (Stepless)	35-100%
Lubricant Charge	16L
Oil Heater	150/300W
Weight	620Kg

Model	Compressor				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			L	W	Kg/cm2G	Kg	
RC2-100B	118/98			33-66-100	33-100		38	31							7			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		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		380					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	3 Phase, 2 Pole, Squirrel Cage, Induction Motor	130	108							16			640
RC2-410B	490/407		2.6	25-50-75-100	25-100		146	121							16			740
RC2-470B	567/471	3550/2950	3.0	25-50-75-100	25-100		170	141		380					18	150/300	42	810
RC2-510B	611/508		3.5	35-50-75-100	35-100		183	152		400					20			780
RC2-550B	660/549		4.8	25-50-75-100	25-100		195	162		415					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		460					28			1099
RC2-790B	952/791			30-50-75-100	25-100		276	230		480					28			1180
RC2-830B	993/825			35-50-75-100	35-100		290	234		575					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

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 RC2-340B model?

A: The RC2-340B is engineered to operate efficiently with R22, R407C, R404A, and R507A refrigerants across standard commercial refrigeration and HVAC systems.

Q2: How does the RC2-340B semi hermetic screw type compressor handle capacity modulation?

A: It utilizes an internal hydraulic slide valve supporting either 4-stage stepped control (35%-50%-75%-100%) or continuous stepless control (35%-100%) to match varying system cooling loads.

Q3: What motor protection features are included?

A: The compressor is equipped with built-in PTC thermistors and an electronic motor protection module that continuously monitors discharge gas temperature, motor coil heat, phase loss, and phase sequence.

Q4: What is the delivery lead time for wholesale orders?

A: In-stock sample units ship within 3 business days, while standard bulk production orders are fulfilled within 10 to 15 working days.

Q5: Can Ruifujie provide custom OEM branding and multi-language nameplates?

A: Yes, Ruifujie offers full OEM/ODM support, including custom logos, multi-language metal nameplates, and tailored motor electrical configurations.

Request a Quote for the RC2-340B

Looking to integrate the RC2-340B compressor into your commercial HVAC or industrial refrigeration project? Contact the Ruifujie sales team today for factory-direct wholesale pricing and engineering guidance.

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



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