



Hanbell RC2-580B-Z RC2-580B-W Air Cooled AC Screw Compressor for Restaurant

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-580B-Z, RC2-580B-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
- Displacement 60/50Hz: 702/583 M3/hr
- Horse Power(60/50Hz): 215/175 HP
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: Hanbell air cooled screw compressor, AC screw compressor for restaurant, RC2-580B-Z screw air compressor



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Product Description

Hanbell RC2-580B-Z RC2-580B-W Air Cooled AC Screw Compressor for Restaurant

Product Description

Multinational Patents of High-Efficiency Screw Rotors

The RC2-580B utilizes a patented 5:6 high-efficiency screw rotor profile developed to optimize compression efficiency across modern refrigerants. Manufactured using high-precision CNC machining centers, rotor milling, and grinding machines, the rotor geometry undergoes rigorous ISO 9001 quality controls and ZEISS 3D coordinate inspection to deliver maximal displacement, excellent volumetric efficiency, and quiet, low-vibration performance.

High Efficiency Motor & Integrated Suction Cooling

Equipped with a 3-phase, 2-pole squirrel-cage induction motor built from premium grade low-loss core steel. The motor features specialized internal cooling slots and guide vanes that direct cold suction refrigerant gas straight through the motor housing, ensuring optimal motor heat dissipation and peak running efficiency even under severe HVAC system workloads.

Precise Capacity Control Mechanism

Designed for dynamic load regulation, the compressor's hydraulic slide valve is positioned directly within the compression chamber. Actuated via differential pressure using pressurized oil injected from the sump and regulated by external solenoid valves, it supports either 4-stage stepped control (35%-50%-75%-100%) or continuous stepless capacity control (35%-100%) to match varying thermal requirements.

Application Areas

- Large Commercial Central HVAC:** Engineered specifically as a reliable ac screw compressor for water-cooled and air-cooled liquid chillers in commercial office complexes, airports, and shopping malls.
- Industrial Process Cooling:** Provides steady, precise thermal control for high-capacity industrial liquid chillers operating under shifting manufacturing loads.
- Cold Storage Logistics:** Suitable for large-scale agricultural precooling facilities and medium-to-low temperature logistics centers.

Product Image



Technical Specification

Model	RC2-580B-Z/RC2-580B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power(60Hz/50Hz)	210/175HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement(60/50Hz)	702/583 m3/hr
Capacity Control(Step)	35-50-75-100%
Capacity Control(Stepless)	35-100%
Lubricant Charge	20L
Oil Heater	150/300W
Weight	840Kg

Model	Compress				Type	Motor						Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight		
	Displacement 60 / 50Hz	Rated Speed 60/50Hz	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							L	W	Kg/cm2G	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			285
RC2-200B	233/193			25-50-75-100	25-100	70	58			208				8			390
RC2-230B	277/230			35-50-75-100	25-100	83	69			220				14			425
RC2-260B	309/257			25-50-75-100	25-100	90	75			230				14			555
RC2-300B	352/293			25-50-75-100	25-100	107	89			380				16			560
RC2-310B	371/308			35-50-75-100	35-100	110	91			440				16			600
RC2-320B	384/320			25-50-75-100	25-100	110	91			460				16			600
RC2-340B	407/339			35-50-75-100	35-100	114	94			480				16			580
RC2-370B	440/366			35-50-75-100	35-100	121	101			575				16			600
RC2-410B	490/407			35-50-75-100	35-100	130	108							16			620
RC2-470B	567/471	3550/2950	2.2	25-50-75-100	25-100	146	121							16			640
RC2-510B	611/508		2.6	25-50-75-100	25-100	170	141			380				16			740
RC2-550B	660/549		3.0	35-50-75-100	35-100	183	152			400				18	150/300	42	810
RC2-580B	702/583		3.5	25-50-75-100	25-100	183	152			415				20			780
RC2-620B	745/619		4.8	25-50-75-100	25-100	195	162							23			850
RC2-710B	858/713			35-50-75-100	35-100	210	175							20			840
RC2-790B	952/791			35-50-75-100	35-100	220	183			380				23			880
RC2-830B	993/825			35-50-75-100	35-100	250	208			440				28			1099
RC2-930B	1117/929			30-50-75-100	25-100	276	230			460				28			1180
RC2-1020B	1223/1017			35-50-75-100	35-100	290	234			480				28			1215
RC2-1130B	1350/1122			35-50-75-100	35-100	334	278			575				28			1240
RC2-1270B	1521/1268			25-50-75-100	25-100	357	297							40			1540
RC2-1530B	1847/1539			25-50-75-100	25-100	393	327							40			1560
				25-50-75-100	25-100	471	392							53			2200
				25-50-75-100	25-100	534	443							53			2300

Company Introduction

Ruifujie brings over two decades of engineering expertise to the international commercial refrigeration and HVAC market. We specialize in providing global equipment manufacturers, mechanical contractors, and system integrators with fully certified, high-durability compressors and cooling system assemblies. By maintaining strict factory manufacturing controls alongside flexible international export services, we empower our B2B partners with dependable supply chain lead times, rigorous quality assurance, and factory-direct pricing.



Frequently Asked Questions

Q1: How does the RC2-580B protect against motor overheating during continuous high-load summer operation?

A: Motor cooling relies on cold suction refrigerant gas guided through internal slots and guide vanes across the motor casing. Additionally, embedded PTC thermistors continuously monitor coil and discharge gas temperatures, triggering protective modules if limits are exceeded.

Q2: Can this compressor handle extreme part-load conditions without causing excessive chiller cycling?

A: Yes, the hydraulic slide valve allows for continuous stepless regulation down to 35% capacity, smoothly adjusting compressor output to match low-demand hours without frequent on/off cycling.

Q3: What options are available if my system requires supplemental oil cooling under high pressure ratios?

A: The compressor body includes dedicated external oil cooler connection ports alongside liquid injection ports to easily integrate auxiliary cooling loops for high-compression operation.

Q4: What is the delivery lead time for commercial B2B orders?

A: In-stock sample units dispatch within 3 business days, while volume commercial manufacturing contracts are typically completed in 10 to 15 working days.

Q5: Can Ruifujie supply OEM branded compressors and customized technical nameplates?

A: Yes, Ruifujie provides comprehensive OEM/ODM solutions, including custom multi-language metal nameplates, tailored motor voltage wiring,

and private labeling.

Connect with Our Engineering Team

Upgrading your central HVAC line or sourcing high-capacity screw units for an upcoming commercial project? Contact the Ruifujie technical sales team today for selection support and factory-direct B2B pricing.

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

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