



Hanbell RC2-470B-Z RC2-470B-W Commercial Semi Hermetic Screw Compressor for HVAC System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-470B-Z, RC2-470B-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, Condensing Unit, Cold Room, Rack System
- Compressor Type: Air/Water Cooled
- Displacement 60/50Hz: 567/471 M3/hr
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Horse Power(60/50Hz): 170/141 HP
- Highlight: Hanbell commercial screw compressor, semi hermetic screw compressor, HVAC system screw compressor



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Product Description

Hanbell RC2-410B-Z RC2-410B-W Commercial Semi Hermetic Screw Compressor for HVAC System

Product Description

Multinational Patents of High-Efficiency Screw Rotors

The RC2-470B features a 5:6 high-efficiency screw rotor profile patented in Taiwan, the UK, the US, and China. Machined via precision CNC milling and grinding centers under strict ISO 9001 standards, these rotors are verified by ZEISS 3D coordinate measuring equipment to guarantee optimum volumetric efficiency, minimal internal clearance, and smooth operation in screw compressor HVAC installations.

Long Life Bearings & High Reliability

Engineered to withstand heavy dynamic loads, the compressor incorporates a combination of 10 axial and radial bearings paired with an α axial balance piston. This design effectively counteracts compression thrust forces, minimizing mechanical shaft displacement and significantly extending total bearing operational life.

Adaptable with Additional Cooling

Designed for ultimate versatility in varying ambient and heavy-duty conditions, the unit is built with dedicated auxiliary connection ports. It features liquid injection ports located at the motor casing and compression chamber, external oil cooler ports, and a middle-pressure economizer port to boost part-load efficiency.

Application Areas

- Commercial HVAC Chillers:** Designed as a core component for large-capacity water-cooled and air-cooled liquid chillers operating in commercial buildings, hospitals, and central HVAC facilities.
- District & Industrial Cooling:** Well-suited for large-scale central air conditioning equipment and process fluid cooling plants requiring precise dynamic capacity control.
- Commercial Cold Storage:** Ideal for medium and low-temperature cold rooms, agricultural precooling facilities, and large-scale food distribution hubs.

Product Image



Technical Specification

Model	RC2-470B-Z/RC2-470B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power(60Hz/50Hz)	170/141HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement(60/50Hz)	567/471 m³/hr
Capacity Control(Step)	25-50-75-100%
Capacity Control(Stepless)	25-100%
Lubricant Charge	18L
Oil Heater	150/300W
Weight	810Kg

Model	Compresso				Type	Motor						Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight		
	Displacement 60 / 50Hz m3/hr	Rated Speed 60/50Hz	V1	Cap.Control(%)		Nominal Hp 60Hz 50Hz	Starting	Voltage(V)		Insulation	Protection						
				STEP				STEPLESS	60Hz							50Hz	
RC2-100B	118/98			33-66-100	33-100	38	31							L	W		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							7			390
RC2-200B	233/193			25-50-75-100	25-100	70	58		208					8			425
RC2-230B	277/230			35-50-75-100	25-100	83	69		220					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	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

Ruifujie is an established international manufacturer and exporter of commercial refrigeration machinery and core system components. Specializing in heavy-duty commercial compressors, unit coolers, and custom cold storage assemblies, we serve mechanical contractors, system integrators, and OEM equipment manufacturers across Europe, the Americas, and the Middle East. Our engineering-first focus ensures strict compliance with international mechanical standards, factory-direct price competitiveness, and dependable global project delivery.



FAQ

Q1: What are the capacity and power specs for the RC2-470B at 50Hz vs 60Hz?

A: At 50Hz, it provides 471 m³/hr displacement with a nominal power of 141 HP. At 60Hz, it delivers 567 m³/hr displacement with a 170 HP nominal rating.

Q2: What capacity control options are built into the RC2-470B?

A: It offers 4-stage stepped capacity regulation (25%-50%-75%-100%) as well as continuous stepless regulation (25%-100%) for efficient part-load matching.

Q3: How does the economizer connection port improve system performance?

A: Connecting a sub-cooling economizer circuit via the middle-pressure port increases system cooling capacity with minimal added power consumption, optimizing efficiency under variable loads.

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.

Partner with Ruifujie Engineering

Upgrading your HVAC chiller line or sourcing high-capacity screw units for an upcoming commercial project? Contact the Ruifujie technical department today for engineering 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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