



Hanbell RC2-710B-Z RC2-710B-W Industrial Screw AC Compressor for Condensing Unit

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-710B-Z, RC2-710B-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: 858/713 M3/hr
- Compressor Type: Air/Water Cooled
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R134a, R22, R407C, R404A, R507A
- Horse Power(60/50Hz): 250/208 HP
- Highlight: Hanbell industrial screw AC compressor, RC2-710B-Z condensing unit compressor, screw air compressor with warranty



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Product Description

Hanbell RC2-710B-Z RC2-710B-W Industrial Screw AC Compressor for Condensing Unit

Product Overview

Double-Walled Rotor Housing

Constructed with a high-strength gray cast iron (FC25) double-wall casing featuring internal reinforcement ribs, the RC2-710B provides outstanding structural rigidity while suppressing operational sound and structural vibration. The stable casing design prevents thermal expansion under high pressure ratios, ensuring tight internal rotor clearances and long-term mechanical stability.

Long Life Bearings & High Reliability

Built to endure heavy continuous duty in large commercial HVAC systems, the compressor integrates a combination of 10 axial and radial bearings paired with an α axial balance piston. This setup balances dynamic rotor compression forces, minimizes axial shaft displacement, and significantly extends overall bearing lifespan.

Perceptive Protection Modules & System Safeguards

To ensure safe operation under demanding conditions, this screw AC compressor comes standard with embedded PTC thermistors and an electronic protection module. It actively monitors motor coil temperatures, discharge gas heat, phase loss, and phase sequence errors, and supports options 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 high-rise commercial office buildings, shopping malls, and airport terminals.

District Air Conditioning Plants: Ideal as a core screw AC compressor in central cooling stations and large district HVAC installations requiring multi-unit parallel setups.

Industrial Process Cooling: Provides reliable thermal control for large-scale liquid chilling loops in chemical, pharmaceutical, and electronics manufacturing.

Product Image



Technical Specifications

Model	RC2-710B-Z/RC2-710B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power (60Hz/50Hz)	250/208HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement (60/50Hz)	858/713 m³/hr
Capacity Control (Step)	35-50-75-100%
Capacity Control (Stepless)	35-100%
Lubricant Charge	28L
Oil Heater	150/300W
Weight	1099Kg

Model	Compressor				Type	Motor										Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight
	Displacement m³/hr	Rated Speed 60/50Hz	VI	Cap.Control(%)		Nominal Hp		Voltage(V)		Insulation	Protection								
				STEP		STEPLESS	60Hz	50Hz	Starting			60Hz	50Hz						
RC2-100B	118/98	3550/2950	2.2	33-66-100	33-100	38	31	Y→ PWS DOL	208	380	Class F	PTC Protection	7	150/300	42	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						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	Y→ DOL	380 400 415	Class F	PTC Protection	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	800						
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						

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

Q1: How does the RC2-710B maintain structural housing stability under heavy summer peak loads?

A: The body features a double-walled FC25 gray iron casing reinforced with internal ribs, preventing housing expansion and maintaining precise internal tolerances under high condensing pressures.

Q2: What capacity modulation options are supported on this unit?

A: The RC2-710B features an internal hydraulic slide valve that supports 4-stage step control (35%-50%-75%-100%) or continuous stepless regulation (35%-100%) to smoothly adapt to shifting HVAC cooling loads.

Q3: What electrical starting methods are available for the motor in this 200+ HP class compressor?

A: The 3-phase squirrel cage motor supports Star-Delta (Y-Δ) and Direct-On-Line (DOL) starting configurations tailored to commercial plant electrical panels.

Q4: What is your standard B2B order fulfillment timeframe?

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

Q5: Can Ruifujie provide customized motor voltages and OEM nameplates?

A: 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 HVAC Engineering Team

Upgrading your commercial chiller product line or sourcing heavy-duty screw compressors for an upcoming central HVAC project? Contact the Ruifujie technical department 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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