



Hanbell RC2-410B-Z RC2-410B-W High-Efficiency HVAC Screw Compressor

Our Product Introduction

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Basic Information

- Place of Origin: China
- Brand Name: Hanbell
- Certification: CE
- Model Number: RC2-410B-Z, RC2-410B-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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Horse Power(60/50Hz): 146/121 HP
- Displacement 60/50Hz: 490/407 M3/hr
- Highlight: Hanbell high-efficiency screw compressor, HVAC screw air compressor, RC2-410B-Z screw compressor with warranty



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Product Overview

Advanced screw compressor designed for high-efficiency HVAC applications with superior cooling performance and reliability.

Key Features

- **High Efficiency Motor & Suction Cooling Design:** Premium low-loss core steel motor with specialized internal cooling slot and refrigerant guide vane for optimal heat dissipation.
- **Precise Capacity Control Mechanism:** Internal slide valve provides versatile energy-saving output adjustment with stepped (25%-50%-75%-100%) or continuous stepless modulation (25%-100%).
- **Advanced Protection & Monitoring:** Integrated PTC thermistors and electronic protection module for continuous monitoring of discharge temperatures, motor heat, phase sequence, and phase loss.

Application Areas

- **Commercial HVAC Chillers:** Large-capacity air-cooled and water-cooled chillers for commercial complexes, hospitals, and office towers.
- **District Cooling & Industrial HVAC:** Heavy-duty central air conditioning and process cooling systems for variable seasonal loads.
- **Large Cold Logistics Facilities:** Continuous compression for medium-and-low-temperature cold storage plants and distribution centers.

Product Visualization



Model	Compressor				Type	Motor						Lubricant Charge	Oil Heater	Hydrostatic Pressure Test	Weight		
	Displacement 60 / 50Hz m ³ /hr	Rated Speed 60/50Hz	VI	Cap. Control(%)		Nominal Hp 60Hz 50Hz	Starting	Voltage(V)		Insulation	Protection						
				STEP				STEPLESS	60Hz							50Hz	
RC2-100B	118/98	3550/2950	2.2 2.6 3.0 3.5 4.8	33-66-100	33-100	38	31	Y-Δ PWS DOL	208	220	Class F	PTC Protection	150/300	42	L	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								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								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	840	
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								

Technical Specifications

Model	RC2-410B-Z/RC2-410B-W
Cooling Type	Air Cooled/Water Cooled
Nominal Power (60Hz/50Hz)	146/121 HP
Refrigerant Type	R134a, R22, R407C, R404A, R507A
Displacement (60/50Hz)	490/407 m ³ /hr

Capacity Control (Step)	25-50-75-100%
Capacity Control (Stepless)	25-100%
Lubricant Charge	16L
Oil Heater	150/300W
Weight	740Kg

Manufacturer Profile

Ruifujie stands as a trusted B2B supply partner and manufacturer in global refrigeration technology. Operating with an international export focus, we combine rigorous factory quality control with full-spectrum supply chain integration—delivering everything from scroll and screw compressors to complete cold storage system assemblies. Overseas project contractors and HVAC OEMs rely on Ruifujie for technical compliance, stable lead times, and tailored product modifications that keep large-scale projects on schedule and within budget.



Frequently Asked Questions

What are the primary power and displacement specifications for the RC2-410B?

Operating at 50Hz, the unit delivers 407 m³/hr displacement with a nominal 121 HP. At 60Hz, it provides 490 m³/hr displacement with a 146 HP rating.

How does the internal slide valve handle part-load HVAC conditions?

The slide valve utilizes pressurized hydraulic oil and solenoid valves to offer either 4-stage stepped control (25%-50%-75%-100%) or continuous stepless modulation (25%-100%).

Which electrical starting configurations are supported on this model?

The motor supports Star-Delta (Y-Δ), Part-Winding Start (PWS), and Direct-On-Line (DOL) wiring configurations.

What is the typical fulfillment timeframe for global commercial orders?

Standard sample units ship within 3 business days, while volume commercial manufacturing contracts are typically completed in 10 to 15 working days.

Can Ruifujie support customized technical specifications or private labeling?

Yes, we provide complete OEM/ODM options, including customized nameplates, branding, and specialized electrical motor configurations tailored to regional power grids.

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