

2CES-3-40S 2CC-3.2-40S 3HP R22 Refrigerant Bitzer Semi Hermetic Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 2CES-3-40S,2CC-3.2-40S
- Minimum Order Quantity: 1
- Price: Discussed
- Packaging Details: WOODEN CASE
- Delivery Time: 1 Month
- Payment Terms: Western Union,T/T
- Supply Ability: 10000Pcs/Year



Product Specification

- Rated Power: 3HP
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22
- Displacement: 16.2 M3/hr
- Cylinders: 2
- Highlight: **Bitzer semi hermetic compressor**, **3HP R22 refrigeration compressor**, **2CES-3-40S compressor**



More Images





for more products please visit us on coldroomunit.com

Our Product Introduction

Product Description

Product Overview

The 2CES-3-40S (formerly 2CC-3.2-40S) is a 3HP BITZER semi-hermetic reciprocating compressor configured for R22 refrigerant. Built on the compact ECOLINE platform, it combines an optimized valve plate design, wear-resistant drive components and low-vibration operation to deliver reliable, energy-efficient cooling performance for commercial refrigeration and condensing unit applications.

Key Features

High-Efficiency Valve Plate Design

The 2CES-3-40S BITZER semi-hermetic compressor features an optimized valve plate design and efficient suction and discharge valve assemblies. Reduced internal losses and minimized clearance volume help improve gas exchange efficiency, supporting energy-efficient operation and reliable cooling performance.

Wear-Resistant Drive Components

A surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness cast-alloy piston rings contribute to a durable mechanical design. These components help reduce friction and wear during operation, supporting longer component service life and more consistent compressor performance.

Low Noise & Reduced Vibration

Balanced compressor mass distribution and a specially designed discharge valve cover help reduce exhaust pulsation and operating vibration. This contributes to smoother, quieter operation and helps improve the overall operating environment of refrigeration equipment.

Compact Structure for Flexible Installation

The compact ECOLINE design requires less installation space, making the semi-hermetic reciprocating compressor easier to integrate into refrigeration equipment and condensing units. Its space-efficient structure provides greater flexibility when arranging equipment in limited installation areas.

Product Image



Technical Specification

for more products please visit us on coldroomunit.com

Model	2CES-3-40S
Old Model	2CC-3.2-40S
Rated Power	3 HP
Displacement (1450/min)	16.2 m³/hr
Oil Charge	1.5 L
Weight	70 KG
Capacity Regulation	–
Voltage	220-240Δ/3/50, 265-290Δ/3/60, 380-420Y/3/50, 440-480Y/3/60
Max Operating Current	15.8/9.1 A
Max Power Consumption	5 kW

Model	Motor Version	Displace-ment (1450/min)	Cylinders	Oil charge	Weight	Pipe Connections				Motor connection	Electrical data	
						DL Dischargeline		SL Suction line			Max. operating current	Max. power consumption
		m3/h		L	kg	mm	pouce	mm	pouce	Volt	Amp.	kW
2KES-05(Y)	1	4.06	2	1	43	12	1/2	16	5/8	Δ / Y 220-240Δ/3/50 380-420Y/3/50 265-290Δ/3/60 440-480Y/3/60	4.9/2.8	1.5
2JES-07(Y)	1	5.21	2	1	43	12	1/2	16	5/8		6.4/3.7	1.9
2HES-1(Y)	2	6.51	2	1	44	12	1/2	16	5/8		6.7/3.8	2
2HES-2(Y)	1				45						7.8/4.5	2.4
2GES-2(Y)	1	7.58	2	1	45	12	1/2	16	5/8		8.7/5.0	2.7
2FES-2(Y)	2	9.54	2	1	45	12	1/2	16	5/8		9.2/5.3	2.9
2FES-3(Y)	1				47						10.7/6.1	3.4
2EES-2(Y)	2	11.4	2	1.5	68	16	5/8	22	7/8		10.4/6.0	3.3
2EES-3(Y)	1				71						13.4/7.5	3.8
2DES-2(Y)	2	13.4	2	1.5	68	16	5/8	22	7/8		13.4/7.5	4
2DES-3(Y)	1				71						15.0/8.6	4.6
2CES-3(Y)	2	16.2	2	1.5	70	16	5/8	22	7/8		15.8/9.1	5
2CES-4(Y)	1				70						17.4/10.0	5.6

Frequently Asked Questions

Q1: Which refrigerant is used in the 2CES-3-40S?

The 2CES-3-40S is configured for R22. It is an R22 refrigeration compressor and should not be confused with the 2CES-3Y variant intended for other refrigerants.

Q2: What information is needed when selecting this compressor for a refrigeration system?

When selecting a BITZER semi-hermetic compressor, provide the required cooling capacity, refrigerant, evaporating temperature, condensing temperature and power supply. These details help verify the compressor's suitability for the intended commercial refrigeration application.

Q3: What should be checked before installing and commissioning the compressor?

Confirm that the site power supply matches the specified motor voltage, frequency and delta/star connection. Also check the suction and discharge piping, lubrication circuit and electrical protection before startup.

Q4: How can routine maintenance help maintain compressor performance?

Regularly inspect the lubrication condition, electrical connections, refrigerant piping and compressor operating noise. Investigating abnormal vibration or temperature changes early helps reduce unnecessary mechanical wear and unexpected downtime.

Coolstart Shenzhen Coolstart Refrigeration Equipment Co., Ltd

86-13922880636 info@coolstartcn.com coldroomunit.com

Room 1801, Building 1, Kangli city, No. 66 Pingji Road, Longgang District, Shenzhen, Guangdong,China