

4CES-6-40S 4CC-6.2-40S 6HP Bitzer Semi Hermetic Reciprocating Refrigeration Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4CES-6-40S,4CC-6.2-40S
- 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

- Cylinders: 4
- Rated Power: 6HP
- Displacement: 32.5 M3/hr
- Refrigerant: R22
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **Bitzer semi hermetic compressor**, **6HP reciprocating refrigeration compressor**, **4CES-6-40S compressor**



More Images





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Our Product Introduction

Product Description

Product Overview

High-Efficiency Compression Design

The 4CES-6-40S is the updated successor to the previous 4CC-6.2-40S model. As a Bitzer semi-hermetic reciprocating refrigeration compressor, it features an optimized valve plate and efficient suction and discharge valve assemblies that reduce internal losses and clearance volume, improving gas exchange efficiency and helping lower energy consumption. The ECOLINE series offers up to 12% higher COP compared with previous product generations.

Wear-Resistant Drive Components

The semi-hermetic piston compressor features a surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness alloy piston rings. These components help reduce friction and mechanical wear, supporting durable operation and reducing maintenance requirements.

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 quieter operation and creates a more comfortable working environment around refrigeration equipment.

Flexible Cooling Capacity Regulation

An optional capacity-control head allows four-cylinder compressors to unload to 50% capacity, helping match cooling output to changing system demands. Compatible frequency-inverter operation also provides greater flexibility for variable-load applications, making it a variable-capacity reciprocating compressor.

Product Image



Technical Specification

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Model	4CES-6-40S
Old Model	4CC-6.2-40S
Rated Power	6 HP
Displacement (1450/min)	32.5 m³/hr
Oil Charge	2 L
Weight	91 KG
Capacity Regulation	50%
Voltage	220-240Δ/3/50, 265-290Δ/3/60, 380-420Y/3/50, 440-480Y/3/60
Max Operating Current	30.8/17.7 A
Max Power Consumption	9.7 kW

Model	Motor Version	Displace-ment (1450/min)	Cylinders	Oil charge	Weight	Pipe Connections				CR - Steps -	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
4FES-3(Y)	2	18.1	4	2	82	16	5/8	22	7/8	50	Δ / Y 220-240Δ/3/50 380-420Y/3/50 265-290Δ/3/60 440-480Y/3/60	16.5/9.5	5.3
4FES-5(Y)	1				86							18.8/10.8	5.8
4EES-4(Y)	2	22.7	4	2	84	16	5/8	28	1-1/8			21.2/12.2	6.9
4EES-6(Y)	1				86							23.7/13.6	7.6
4DES-5(Y)	2	26.8	4	2	86	22	7/8	28	1-1/8			25.2/14.5	8.1
4DES-7(Y)	1				89							28.7/16.5	8.9
4CES-6(Y)	2	32.5	4	2	91	22	7/8	28	1-1/8			30.8/17.7	9.7
4CES-9(Y)	1				91							35.1/20.2	11.3

Frequently Asked Questions

Q1: Which refrigerant and operating conditions apply to the 4CES-6-40S?

The 4CES-6-40S uses R22 refrigerant. It covers medium- and low-temperature operation, with a maximum condensing temperature of up to 62°C.

Q2: Can the 4CES-6-40S operate with a frequency inverter?

Yes. The ECOLINE series supports compatible frequency-inverter operation within a 25–70 Hz range. Confirm the inverter selection, motor compatibility and approved operating limits before commissioning.

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

Check the electrical supply, starter configuration, phase sequence, suction and discharge connections, oil charge and system cleanliness. Ensure the installation and protection arrangements match the compressor's requirements before startup.

Q4: What maintenance practices help maintain reliable operation?

Regularly monitor operating pressures, discharge temperature, current, lubrication conditions and abnormal vibration. Timely inspection helps identify developing problems and reduce the risk of unexpected equipment downtime.

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