

Bitzer 4EES-6-40S 4EC-6.2-40S 6HP HVAC Semi Hermetic Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4EES-6-40S,4EC-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
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Refrigerant: R22
- Displacement: 22.7 M3/hr
- Rated Power: 6HP
- Highlight: **Bitzer semi hermetic compressor**, **6HP reciprocating compressor**, **4EES-6-40S HVAC compressor**



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Our Product Introduction

Product Description

Product Overview

The Bitzer 4EES-6-40S is the updated successor to the previous 4EC-6.2-40S model. This 6HP semi-hermetic reciprocating compressor is engineered for commercial refrigeration and medium-temperature applications, combining high-efficiency compression, durable mechanical construction, and a compact footprint.

Key Features

High-Efficiency Compression Design

The 4EES-6-40S features an optimized valve plate, efficient suction and discharge valve assemblies, and reduced clearance volume to minimize internal losses and improve gas exchange efficiency. The ECOLINE series achieves up to 12% higher COP compared with previous product generations, helping reduce energy consumption under comparable operating conditions.

Wear-Resistant Mechanical Construction

A surface-hardened crankshaft, low-friction bearings, aluminum pistons, and high-hardness alloy piston rings contribute to a durable mechanical design. These components help reduce friction and mechanical wear, supporting stable operation and longer service intervals.

Compact Design for Flexible Installation

The compact construction minimizes installation space requirements, making this semi-hermetic reciprocating compressor easier to integrate into commercial refrigeration equipment and compact condensing units. Its space-saving layout gives equipment manufacturers greater flexibility in system design.

Flexible Cooling Capacity Regulation

The four-cylinder design supports an optional capacity-control head with 50% unloading. This allows the compressor to adjust cooling output according to changing system demands, making it suitable for refrigeration applications with varying load requirements.

Product Image



Technical Specification

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Model	4EES-6-40S
Old Model	4EC-6.2-40S
Rated Power	6 HP
Displacement (1450/min)	22.7 m³/hr
Oil Charge	2 L
Weight	86 KG
Capacity Regulation	50%
Voltage	220-240Δ/3/50, 265-290Δ/3/60, 380-420Y/3/50, 440-480Y/3/60
Max Operating Current	23.7/13.6 A
Max Power Consumption	7.6 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: Can the compressor operate under partial-load conditions?

Yes. An optional capacity-control head allows the four-cylinder compressor to unload to 50% capacity. This helps match cooling output to changing demand, particularly in commercial refrigeration systems with fluctuating cooling loads.

Q2: What should be considered when selecting this compressor for an existing refrigeration system?

When selecting a semi-hermetic refrigeration compressor, provide the required cooling capacity, refrigerant, evaporating temperature, condensing temperature, and electrical supply. Also check piping connections and lubrication requirements to ensure compatibility with the existing system.

Q3: What should be checked before commissioning the compressor?

Verify the power supply, motor connections, starter configuration, suction and discharge piping, oil charge, and system cleanliness. Correct installation and electrical protection settings help reduce startup problems and support reliable operation.

Q4: Can the 4EES-6-40S be used in a commercial air-conditioning project?

Yes. The R22 configuration is intended for air-conditioning and medium-temperature applications. Before installation, confirm the required cooling capacity and actual condensing conditions, particularly where ambient temperatures are high.

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