

4EES-4-40S 4EC-4.2-40S 4HP Bitzer Semi Hermetic Compressor for HVAC System

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4EES-4-40S,4EC-4.2-40S
- 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

- Refrigerant: R22
- Cylinders: 4
- Displacement: 22.7 M3/hr
- Rated Power: 4HP
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Highlight: **4HP Bitzer semi hermetic compressor**, **4EES-4-40S HVAC compressor**, **4EC-4.2-40S Bitzer compressor**



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Our Product Introduction

Product Description

Product Overview

The 4EES-4-40S is a BITZER semi-hermetic compressor and the updated successor to the previous 4EC-4.2-40S model. Its R22 configuration is optimized for medium- and low-temperature refrigeration, with a maximum condensing temperature of 62°C. It is well suited to applications such as small commercial cold-storage rooms.

Wear-Resistant Drive Components

This semi-hermetic reciprocating compressor features a surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness alloy piston rings. These components help reduce mechanical friction and wear, supporting durable operation and consistent performance over extended operating periods.

Low Noise & Reduced Exhaust Pulsation

Balanced compressor mass distribution and a specially designed discharge valve cover help reduce exhaust pulsation and operating vibration. This contributes to quieter operation, making the BITZER ECOLINE compressor suitable for refrigeration installations where operating noise is an important consideration.

Flexible Capacity Adjustment

The four-cylinder design supports an optional capacity-control head with 50% unloading, allowing cooling output to better match changing system loads. With compatible frequency-inverter control, the ECOLINE series also supports operation between 25 and 70 Hz, providing greater flexibility for variable-load refrigeration applications.

Product Image



Technical Specification

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Model	4EES-4-40S
Old Model	4EC-4.2-40S
Rated Power	4 HP
Displacement (1450/min)	22.7 m³/hr
Oil Charge	2 L
Weight	84 KG
Capacity Regulation	50%
Voltage	220-240Δ/3/50, 265-290Δ/3/60, 380-420Y/3/50, 440-480Y/3/60
Max Operating Current	21.2/12.2 A
Max Power Consumption	6.9 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 refrigeration applications are suitable for the 4EES-4-40S?

The 4EES-4-40S uses R22 refrigerant and is optimized for medium- and low-temperature refrigeration, with condensing temperatures up to 62°C. Typical application examples include commercial cold rooms and medium-temperature refrigeration equipment.

Q2: Can the compressor adjust its cooling capacity under partial-load conditions?

Yes. An optional capacity-control head allows the four-cylinder compressor to unload to 50% capacity. Compatible frequency-inverter operation also provides additional flexibility when system cooling demand changes.

Q3: What information is needed when selecting a compressor for cold storage?

Provide the required cooling capacity, refrigerant, evaporating temperature, condensing temperature, ambient temperature and power supply. These details help determine whether the compressor matches the cold-storage system's actual operating conditions.

Q4: What should be checked before installing and commissioning the compressor?

Verify the electrical supply, motor connections, starter configuration, suction and discharge piping, oil circuit and system cleanliness. Proper installation and commissioning checks help reduce startup problems and support reliable long-term operation.

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