

Bitzer 4FES-3-40S 4FC-3.2-40S Semi-Hermetic Reciprocating Chiller Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4FES-3-40S,4FC-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

- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Cylinders: 4
- Rated Power: 3HP
- Refrigerant: R22
- Displacement: 18.1 M3/hr
- Highlight: **Bitzer semi-hermetic reciprocating compressor**, **4FES-3-40S chiller compressor**, **4FC-3.2-40S Bitzer compressor**



More Images





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Our Product Introduction

Product Description

Product Overview

The 4FES-3-40S is the updated successor to the previous 4FC-3.2-40S model. This R22 reciprocating chiller compressor is suitable for commercial refrigeration equipment, cold-storage rooms, and chiller applications.

Key Features

Wear-Resistant Drive Components

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 reducing the need for frequent component replacement.

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, making the compressor suitable for commercial refrigeration installations where noise control is important.

Flexible Capacity & Frequency Regulation

The four-cylinder design supports an optional capacity-control head with 50% unloading, allowing cooling output to better match changing system demands. Compatible frequency-inverter operation within the ECOLINE series range of 25–70 Hz provides additional flexibility for variable-load refrigeration and chiller systems.

Product Image



Technical Specification

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Model	4FES-3-40S
Old Model	4FC-3.2-40S
Rated Power	3 HP
Displacement (1450/min)	18.1 m³/hr
Oil Charge	2 L
Weight	82 KG
Capacity Regulation	50%
Voltage	220–240Δ/3/50, 265–290Δ/3/60, 380–420Y/3/50, 440–480Y/3/60
Max Operating Current	16.5/9.5 A
Max Power Consumption	5.3 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 this model?

Typical application examples include commercial cold rooms, supermarket refrigeration equipment, and suitable industrial cooling systems.

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

Yes. An optional capacity-control head allows 50% unloading. Compatible frequency-inverter operation also enables more flexible capacity adjustment, helping the system respond to changing cooling demand.

Q3: What information should I provide when selecting a reciprocating chiller compressor?

Provide the required cooling capacity, R22 refrigerant specification, evaporating temperature, condensing temperature, ambient conditions, and electrical supply. These details help determine whether the compressor is suitable for the intended chiller or refrigeration project.

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