

Bitzer 4VES-7-40S 4VCS-6.2-40S 7HP R22 Reciprocating Semi Hermetic Type Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4VES-7-40S,4VCS-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

- Rated Power: 7HP
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Cylinders: 4
- Displacement: 34.7 M3/hr
- Refrigerant: R22
- Oil Charge: 2.6L
- Highlight: **Bitzer 4VES-7-40S semi hermetic compressor**, **7HP R22 reciprocating compressor**, **Bitzer 4VCS-6.2-40S compressor**



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Product Description

Product Overview

The 4VES-7-40S is the updated successor to the previous 4VCS-6.2-40S model. This 7HP R22 reciprocating semi-hermetic compressor is engineered for medium- and low-temperature commercial refrigeration, combining balanced mass distribution with a specially designed discharge valve cover to reduce exhaust pulsation and operating vibration.

Key Features

Low Noise & Reduced Operating Vibration

Balanced mass distribution and a specially designed discharge valve cover reduce exhaust pulsation and operating vibration. The optimized structure contributes to smoother operation and helps create a quieter refrigeration environment, particularly beneficial for commercial refrigeration installations.

Compact Design for Space-Saving Installation

The compact housing requires less installation space, making the compressor easier to integrate into different refrigeration system layouts. This provides greater flexibility for equipment manufacturers and refrigeration contractors when designing commercial cold rooms, refrigeration units and other space-conscious installations.

Robust Construction for Long-Term Reliability

A sturdy valve plate design, high-strength spring steel valve materials and wear-resistant transmission components contribute to the compressor's mechanical durability. These design features help withstand repeated operating cycles, reduce component wear and support reliable performance during extended refrigeration operation.

Efficient Cooling Capacity Regulation

The four-cylinder configuration supports an optional capacity-control head with 50% unloading. This allows the compressor to adjust its cooling output according to actual system demand, helping reduce unnecessary full-load operation during periods of lower cooling requirements. The result is more flexible system operation and improved part-load energy management.



Technical Specifications

Model	4VES-7-40S
Old Model	4VCS-6.2-40S
Rated Power	7 HP
Displacement (1450/min)	34.7 m³/hr
Oil Charge	2.6 L
Weight	129 KG
Capacity Regulation	50%
Voltage	380-420YY/3/50, 440-480YY/3/60
Max Operating Current	16.6 A
Max Power Consumption	11 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
4VES-6Y	3	34.7	4	2.6	129	22	7/8	28	1-1/8	50	PW 380-420YY/3/50 440-480YY/3/60	10	6
4VES-7(Y)	2				129							16.6	11
4VES-10(Y)	1				139							19.9	12
4TES-8Y	3	41.3	4	2.6	134	28	1-1/8	35	1-3/8			12.1	7
4TES-9(Y)	2				134							19.9	13
4TES-12(Y)	1				141							25.1	14
4PES-10Y	3	48.5	4	2.6	139	28	1-1/8	35	1-3/8			13.6	8
4PES-12(Y)	2				139			35	1-3/8			22.7	14
4PES-15(Y)	1				147			42	1-5/8			28.2	16
4NES-12Y	3	56.2	4	2.6	141	28	1-1/8	35	1-3/8			15.9	9
4NES-14(Y)	2				141			35	1-3/8			26.6	17
4NES-20(Y)	1				150			42	1-5/8			33.2	19
4JE-13Y	3	63.5	4	4	179	28	1-1/8	42	1-5/8			19.8	11
4JE-15(Y)	2				190							30.8	19
4JE-22(Y)	1				190							37.2	21
4HE-15Y	3	73.7	4	4	183	28	1-1/8	42	1-5/8			22.5	13
4HE-18(Y)	2				190			42	1-5/8			36.7	22
4HE-25(Y)	1				194			54	2-1/8			44	25
4GE-20Y	3	84.6	4	4.5	192	28	1-1/8	54	2-1/8			25.9	16
4GE-23(Y)	2				192							43.9	27
4GE-30(Y)	1				206							51.2	28
4FE-25Y	3	101.8	4	4.5	196	28	1-1/8	54	2-1/8			32.1	19
4FE-28(Y)	2				207							52.8	31
4FE-35(Y)	1				207							62.1	35

Frequently Asked Questions

Q1: Which refrigeration applications are suitable for the 4VES-7-40S?

The 4VES-7-40S uses R22 and is optimized for medium- and low-temperature refrigeration applications, with a maximum condensing temperature of 62°C according to the supplied series information. Typical application examples include commercial cold-storage rooms and supermarket refrigeration systems.

Q2: Can the 4VES-7-40S operate under partial-load conditions?

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

Q3: What advantages does this compressor offer for commercial refrigeration installations?

Its compact structure, reduced operating vibration and wear-resistant mechanical components help simplify equipment integration and support dependable operation. These characteristics are useful for cold-storage projects and commercial refrigeration equipment that require consistent cooling performance.

Q4: What should be considered when selecting an R22 compressor?

Check the required cooling capacity, evaporating temperature, condensing temperature, ambient conditions and electrical supply. For the 4VES-7-40S, also verify that the system's operating conditions remain within the specified R22 application range.

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