

Bitzer 4FE-28-40P 28HP R22 Refrigeration Semi Compressor for Cold Room

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4FE-28-40P
- 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

- Displacement: 101.8 M3/hr
- Cylinders: 4
- Refrigerant: R22
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 28HP
- Highlight: **Bitzer 4FE-28-40P Semi Compressor**, **28HP R22 Cold Room Compressor**, **Bitzer Semi Compressor for Cold Room**



More Images





for more products please visit us on coldroomunit.com

Our Product Introduction

Product Description

Product Overview

The BITZER 4FE-28-40P is a 28HP semi-hermetic reciprocating compressor engineered for R22 refrigeration systems. Built for commercial refrigeration and cold-storage installations, it combines efficient compression, durable drive components and flexible capacity control to deliver dependable, energy-conscious performance.

Key Features

High-Efficiency Compression Design

The 4FE-28-40P is a BITZER semi compressor for R22 refrigeration systems. Its optimized valve plate, efficient suction and discharge valve assemblies, and reduced clearance volume help minimize internal losses and improve gas exchange efficiency, supporting energy-efficient operation and lower power consumption.

Wear-Resistant Drive Components

This semi compressor combines a surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness alloy piston rings. These components help reduce mechanical friction and wear, supporting reliable operation and longer component service life.

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, an advantage for commercial refrigeration equipment and cold-storage installations where noise control is important.

Flexible Cooling Capacity Regulation

The four-cylinder configuration can be equipped with an optional capacity-control head for unloading to 50%. This semi compressor can therefore better match cooling output to partial-load demand, helping reduce unnecessary full-capacity operation and improve system efficiency.

Product Image



BITZER 4FE-28-40P semi-hermetic compressor

Technical Specification

for more products please visit us on coldroomunit.com

Model	4FE-28-40P
Old Model	–
Rated power	28HP
Displacement (1450/min)	101.8 m³/hr
Oil charge	4.5L
Weight	207 KG
Capacity regulation	50%
Voltage	380-420YY/3/50, 440-480YY/3/60
Max operating current	52.8 A
Max power consumption	31 kW

Dimension Drawing

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

4FE-28-40P dimensional drawing

FAQ

Q1: Which refrigerant does the 4FE-28-40P use?

This semi-hermetic reciprocating compressor should be matched with an R22 refrigeration system and compatible lubricant.

Q2: Is this compressor suitable for commercial refrigeration and cold-storage applications?

It can be considered for commercial refrigeration equipment and cold-storage systems, provided the required cooling capacity and operating temperatures fall within its approved application range. Actual evaporating and condensing conditions should be confirmed before selection.

Q3: Can the compressor operate under partial-load conditions?

Yes. An optional capacity-control head provides 50% unloading for the four-cylinder configuration. This allows the compressor to function as a variable-capacity compressor, helping match refrigeration output to changing system loads.

Q4: What information is required for compressor selection?

When selecting a compressor for refrigeration systems, provide the required cooling capacity, R22 refrigerant, evaporating temperature, condensing temperature, ambient conditions and electrical supply. These details help verify system compatibility and operating suitability.

Room 1801, Building 1, Kangli city, No. 66 Pingji Road, Longgang District, Shenzhen, Guangdong,China