

4PES-15-40P 4PCS-15.2-40P 15HP R22 HVAC Semi Hermetic Bitzer Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4PES-15-40P,4PCS-15.2-40P
- 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

- Oil Charge: 2.6L
- Displacement: 48.5 M3/hr
- Cylinders: 4
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 15HP
- Refrigerant: R22
- Highlight: **15HP R22 Bitzer Compressor**, **Semi Hermetic Bitzer Compressor**, **4PES-15-40P HVAC Compressor**



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Our Product Introduction

Product Description

High-Efficiency Compression Design

The 4PES-15-40P is the updated successor to the previous 4PCS-15.2-40P model. This semi-hermetic Bitzer compressor uses R22 refrigerant and features an optimized valve plate, efficient suction and discharge valve assemblies, and reduced clearance volume. These improvements help reduce internal losses and improve gas exchange efficiency. The ECOLINE series achieves up to 12% higher COP compared with previous product generations.

Wear-Resistant Mechanical Construction

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

Low Noise & Reduced Operating Vibration

Balanced compressor mass distribution and a specially designed discharge valve cover help reduce exhaust pulsation and operating vibration. This contributes to smoother, quieter operation, making the semi-hermetic reciprocating compressor suitable for commercial refrigeration installations where noise control is important.

Flexible Cooling Capacity Regulation

The four-cylinder configuration supports an optional capacity-control head with 50% unloading, allowing cooling output to better match changing system demands. Compatible frequency-inverter operation within 25–70 Hz provides additional flexibility, making it a variable-speed refrigeration compressor solution for applications with fluctuating cooling loads.

Product Image



Technical Specification

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Model	4PES-15-40P
Old Model	4PCS-15.2-40P
Rated power	15HP
Displacement (1450/min)	48.5 m³/hr
Oil charge	2.6 L
Weight	139 KG
Capacity regulation	50%
Voltage	380–420YY/3/50, 440–480YY/3/60
Max operating current	28.2 A
Max power consumption	16 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

FAQ

Q1: Which refrigeration applications are suitable for the 4PES-15-40P?

The semi-hermetic Bitzer compressor uses R22 and is suitable for medium-temperature refrigeration and air-conditioning applications, with a maximum condensing temperature of 62°C. Typical applications include commercial cold-storage rooms, supermarket refrigeration systems and air-conditioning equipment.

Q2: What information is required when selecting this compressor?

When selecting a semi-hermetic Bitzer compressor, provide the required cooling capacity, refrigerant, evaporating temperature, condensing temperature, ambient conditions and electrical supply. These details help verify whether the compressor matches the intended refrigeration system.

Q3: What should be checked before connecting the 40P electrical configuration?

The parameter configuration specifies a part-winding (PW) motor connection. Confirm the three-phase power supply, frequency, starter compatibility and motor wiring before installation and commissioning.

Q4: What maintenance practices help maintain reliable operation?

Regularly inspect lubrication conditions, operating pressures, discharge temperature and electrical connections. Monitoring abnormal noise and vibration can also help identify developing mechanical problems before they cause unexpected downtime.

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