

Bitzer 4TES-9-40P 4TCS-8.2-40P 9HP R22 Semi Sealed Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 4TES-9-40P,4TCS-8.2-40P
- 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

- Refrigerant: R22
- Displacement: 41.3 M3/hr
- Cylinders: 4
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Oil Charge: 2.6L
- Rated Power: 9HP
- Highlight: **Bitzer semi sealed compressor**, **9HP R22 reciprocating compressor**, **4TES-9-40P compressor**



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Product Description

Efficient Compression & Energy Performance

The 4TES-9-40P is the updated successor to the previous 4TCS-8.2-40P model. Its optimized valve plate, efficient suction and discharge valve assemblies, and reduced clearance volume help minimize internal losses and improve gas exchange efficiency.

Wear-Resistant Mechanical Design

This semi-hermetic piston compressor features a surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness alloy piston rings. These components help reduce friction and mechanical 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 in commercial refrigeration equipment and cold-storage installations.

Flexible 50% Capacity Regulation

This semi-sealed reciprocating compressor supports capacity unloading to 50%, allowing cooling output to better match partial-load demand. This helps reduce unnecessary full-capacity operation in refrigeration systems with changing cooling requirements.

Product Image



Technical Specification

Model	4TES-9-40P
Old Model	4TCS-8.2-40P
Rated power	9HP
Displacement (1450/min)	41.3 m³/hr
Oil charge	2.6 L
Weight	134 KG
Capacity regulation	50%
Voltage	380-420YY/3/50, 440-480YY/3/60
Max operating current	19.9 A
Max power consumption	13 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 4TES-9-40P?

The 4TES-9-40P uses R22 and is designed for medium- and low-temperature refrigeration applications, with a maximum condensing temperature of 62°C. As a commercial refrigeration compressor, it can be considered for cold-storage rooms and supermarket refrigeration systems operating within its approved range.

Q2: Can the compressor adjust its cooling capacity according to system demand?

Yes. The four-cylinder configuration supports 50% capacity unloading, helping match compressor output to changing refrigeration loads. This is particularly useful for systems that experience frequent variations in cooling demand.

Q3: What electrical connections should be checked before installation?

The 40P configuration uses a part-winding (PW) connection. Before commissioning this semi-sealed reciprocating compressor, confirm the three-phase supply voltage, frequency, starter compatibility and motor wiring.

Q4: What maintenance practices help maintain reliable operation?

Regularly inspect lubrication conditions, operating pressures, discharge temperature and electrical connections. Pay attention to abnormal noise or vibration to identify potential mechanical problems before they cause unexpected downtime.

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