

2DES-2-40S 2DC-2.2-40S 2HP Bitzer Semi Hermetic Reciprocating Compressor

Our Product Introduction

Basic Information

- Place of Origin: China
- Brand Name: Bitzer
- Certification: CE
- Model Number: 2DES-2-40S,2DC-2.2-40S
- 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

- Cylinders: 2
- Displacement: 13.4 M3/hr
- Application: HVAC, Condensing Unit, Cold Room, Rack System
- Rated Power: 2HP
- Refrigerant: R22
- Highlight: **2HP Bitzer semi hermetic compressor**, **Bitzer reciprocating compressor 2HP**, **2DES-2-40S Bitzer compressor**



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Product Description

Product Overview

The 2DES-2-40S is a BITZER semi-hermetic reciprocating compressor and the updated successor to the previous 2DC-2.2-40S model. It is engineered for reliable, energy-efficient performance in commercial refrigeration and condensing unit applications.

Key Features

Efficient Compression Design

The optimized valve plate and efficient suction and discharge valve assemblies help reduce internal losses and clearance volume, supporting efficient gas exchange and improved energy performance.

Wear-Resistant Drive Components

The semi-hermetic compressor features a surface-hardened crankshaft, low-friction bearings, aluminum pistons and high-hardness alloy piston rings. These components help minimize mechanical friction and wear, supporting durable operation and consistent performance over extended operating periods.

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 and helps create a more comfortable working environment around refrigeration equipment.

Compact Installation Design

The BITZER ECOLINE compressor features a compact structure that requires less installation space. This gives equipment manufacturers greater flexibility when integrating compressors into condensing units and commercial refrigeration systems.

Product Image



Technical Specification

Model	2DES-2-40S
Old Model	2DC-2.2-40S
Rated Power	2 HP
Displacement (1450/min)	13.4 m³/hr
Oil Charge	1.5 L
Weight	68 KG
Capacity Regulation	–
Voltage	220-240Δ/3/50, 265-290Δ/3/60, 380-420Y/3/50, 440-480Y/3/60
Max Operating Current	13.4/7.5 A
Max Power Consumption	4 kW

Model	Motor Version	Displace-ment (1450/min)	Cylinders	Oil charge	Weight	Pipe Connections				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
2KES-05(Y)	1	4.06	2	1	43	12	1/2	16	5/8	Δ / Y 220-240Δ/3/50 380-420Y/3/50 265-290Δ/3/60 440-480Y/3/60	4.9/2.8	1.5
2JES-07(Y)	1	5.21	2	1	43	12	1/2	16	5/8		6.4/3.7	1.9
2HES-1(Y)	2	6.51	2	1	44	12	1/2	16	5/8		6.7/3.8	2
2HES-2(Y)	1				45						7.8/4.5	2.4
2GES-2(Y)	1	7.58	2	1	45	12	1/2	16	5/8		8.7/5.0	2.7
2FES-2(Y)	2	9.54	2	1	45	12	1/2	16	5/8		9.2/5.3	2.9
2FES-3(Y)	1				47						10.7/6.1	3.4
2EES-2(Y)	2	11.4	2	1.5	68	16	5/8	22	7/8		10.4/6.0	3.3
2EES-3(Y)	1				71						13.4/7.5	3.8
2DES-2(Y)	2	13.4	2	1.5	68	16	5/8	22	7/8		13.4/7.5	4
2DES-3(Y)	1				71						15.0/8.6	4.6
2CES-3(Y)	2	16.2	2	1.5	70	16	5/8	22	7/8		15.8/9.1	5
2CES-4(Y)	1				70						17.4/10.0	5.6

Frequently Asked Questions

Q1: Which refrigerant is used in the 2DES-2-40S?

The 2DES-2-40S uses R22 refrigerant. Make sure the replacement compressor matches the refrigerant and oil requirements of the existing system.

Q2: What information is needed when selecting this compressor for a refrigeration system?

For a commercial refrigeration compressor application, provide the required cooling capacity, refrigerant, evaporating temperature, condensing temperature, ambient conditions and power supply. These details help determine whether the compressor matches the system's operating requirements.

Q3: What should be checked before installing and commissioning the compressor?

Verify the motor voltage, frequency and electrical connections against the compressor nameplate. Also check the suction and discharge piping, oil charge, system cleanliness and electrical protection before startup.

Q4: How can operators reduce mechanical wear during long-term operation?

Regularly monitor lubrication conditions, operating pressures, discharge temperature and abnormal noise or vibration. Timely inspection helps identify potential operating problems before they lead to unnecessary component wear or equipment downtime.

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