

PRODUCT TECHNICAL BRIEF

CBVAC JFB-63/81 Hybrid-Bearing Turbomolecular Pump

CBVAC JFB-63/81 Hybrid-Bearing Turbomolecular Pump - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Pumping speed	85 L/s for nitrogen; 55 L/s for helium
Ultimate pressure	$<8 \times 10^{-6}$ Pa for the LF/ISO-K-type version; down to 5×10^{-7} Pa for the CF version in the source data
Compression ratio	1×10^8 for nitrogen; 1×10^6 for helium
Main inlet versions	LF63, CF63 or KF40; confirm exact ordering code
Double-flow-port version	Additional KF16 port with approximately 3.5 L/s stated in current product data
Recommended backing pump	0.5-2 L/s
Maximum continuous foreline pressure	650 Pa for nitrogen; 300 Pa for helium
Nominal rotor speed	75,000 rpm
Acceleration / stopping time	≤ 2.5 min / ≤ 3.5 min
Drive supply	24 V DC $\pm 5\%$
Controller and communications	Integrated JFB-I; RS-485 Modbus RTU
Cooling	Natural convection, air or water, depending on gas load and configuration

Technical and Project Information

Compact turbomolecular pump with a grease-lubricated ceramic ball-bearing rotor support. The JFB-63/81 provides 85 L/s for nitrogen and 55 L/s for helium, with LF63, CF63, KF40 and double-flow-port versions listed for different applications.

CBVAC JFB-63/81 Turbomolecular Pump

The JFB-63/81 is a compact high-vacuum turbomolecular pump for analytical instruments, small chambers and leak-test equipment. Its rotor is supported by grease-lubricated ceramic ball bearings, and the integrated JFB-I drive supports remote communication.

The original source table incorrectly labeled KF16 as the main inlet; current product data shows it as the auxiliary port on the double-flow version. Confirm main flange, foreline flange, controller, cable, cooling kit, purge option and mounting orientation by ordering code.

A turbomolecular pump requires a compatible backing pump, pressure-based start logic and safe venting. Protect the rotor from shock, particles, condensation, sudden air inrush and operation above its permitted pressure.

- Vacuum Pumps Atmosphere-to-High-Vacuum Dry Pumps High-Vacuum Pumping Stations Ion Pumps KYKY RV Rotary-Vane Pumps Roots Booster Pumps Screw Vacuum Pumps Tank Evacuation Systems Turbomolecular Pumps Grease-Lubricated KYKY Turbomolecular Pumps JFB Ceramic-Bearing Turbomolecular Pumps KYKY CXF Magnetically Levitated Turbomolecular Pumps KYKY FF Turbomolecular Pumps for Vacuum Insulation MTP Magnetically Levitated Turbomolecular Pumps
- Atmosphere-to-High-Vacuum Dry Pumps
- High-Vacuum Pumping Stations
- KYKY RV Rotary-Vane Pumps
- Roots Booster Pumps
- Screw Vacuum Pumps
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- Grease-Lubricated KYKY Turbomolecular Pumps
- JFB Ceramic-Bearing Turbomolecular Pumps
- KYKY CXF Magnetically Levitated Turbomolecular Pumps
- KYKY FF Turbomolecular Pumps for Vacuum Insulation
- MTP Magnetically Levitated Turbomolecular Pumps
- Helium Reference Leaks
- Scanning Electron Microscopes
- Leak-Detector Accessories

WORLDWIDE PROJECT CONTACT

Send the test object or system, operating conditions, target sensitivity or pressure range, applicable standard, destination country, quantity and schedule. LeakLab will review the project scope.

mail@leaklab.org

Regarding: CBVAC JFB-63/81 Hybrid-Bearing Turbomolecular Pump

Specifications, standards, verification scope, availability and commercial terms must be confirmed for the exact configuration and destination jurisdiction before order or project acceptance.