

PRODUCT TECHNICAL BRIEF

CBVAC JFB-100/251 Hybrid-Bearing Turbomolecular Pump

CBVAC JFB-100/251 Hybrid-Bearing Turbomolecular Pump - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Nominal pumping speed	250 L/s for nitrogen; approximately 200 L/s for helium in the source record
Ultimate pressure	Down to 5×10^{-7} Pa with CF inlet; approximately 5×10^{-6} Pa with LF/ISO-K inlet
Compression ratio	Approximately 1×10^8 for nitrogen and 1×10^6 for helium in the source record
Main inlet	DN100 LF/ISO-K or CF100
Foreline connection	KF25 or KF40, configuration-dependent
Recommended backing pump	1-4 L/s in the source record
Controller options	Integrated JFB-II-G3 with 24 V DC input or external JFD-II with 220 V AC input
Interfaces	RS-485 Modbus RTU and DB15 logic I/O, controller-dependent
Cooling	Air or water; cooling requirements depend on gas throughput and ambient conditions
Approximate weight	6.0 kg LF, 7.9 kg CF; double-flow version approximately 6.5 kg in current product data

Technical and Project Information

DN100 turbomolecular pump with grease-lubricated ceramic ball bearings and a nominal nitrogen pumping speed of 250 L/s. LF and CF inlet versions, integrated or external controllers, RS-485 communication and air or water cooling support instrument and process integration.

CBVAC JFB-100/251 Turbomolecular Pump

The JFB-100/251 is a compact DN100 turbomolecular pump for high-vacuum instruments and process chambers. A grease-lubricated ceramic ball-bearing system supports the rotor; controller and flange configuration are selected for the installation.

Confirm the exact flange, ordering code, foreline limit, rotor speed, controller, cable, cooling accessory, purge port and installation orientation. Performance at the chamber depends on conductance, gas species, outgassing, leak tightness and backing pressure.

Use pressure and speed interlocks, controlled venting and particle protection. Do not move the pump while the rotor is spinning.

- 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
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- High-Vacuum Pumping Stations
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- Screw Vacuum Pumps
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- Grease-Lubricated KYKY Turbomolecular Pumps
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- 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-100/251 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.