

PRODUCT TECHNICAL BRIEF

CBVAC JFB-160/701 Hybrid-Bearing Turbomolecular Pump

CBVAC JFB-160/701 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	650 L/s for nitrogen; 550 L/s for helium
Ultimate pressure	$<5 \times 10^{-7}$ Pa with CF inlet; $<5 \times 10^{-6}$ Pa with LF/ISO-K inlet
Compression ratio	1×10^{11} for nitrogen; 1×10^4 for helium
Main inlet	DN160 LF/ISO-K or CF160
Foreline connection	KF25 or KF40, configuration-dependent
Recommended backing pump	4-10 L/s
Maximum continuous foreline pressure	300 Pa for nitrogen; 200 Pa for helium
Nominal / standby rotor speed	36,000 / 25,200 rpm
Acceleration / stopping time	Approximately 5 min / 5 min
Controller	JFB-III or JFB-III-B; 220 V AC $\pm 10\%$
Interfaces	RS-485 and DB15 logic I/O
Cooling	Air or water; source water specification ≥ 1.5 L/min at 15-30 °C
Approximate weight	20 kg LF; 23 kg CF in current product data

Technical and Project Information

DN160 turbomolecular pump with 650 L/s nitrogen and 550 L/s helium pumping speed in the source technical table. LF and CF inlet versions, grease-lubricated ceramic ball bearings, RS-485 control and air or water cooling support medium-size high-vacuum systems.

CBVAC JFB-160/701 Turbomolecular Pump

The JFB-160/701 is a DN160 high-throughput turbomolecular pump with grease-lubricated ceramic ball bearings. Although the model is often marketed in a 700 L/s class, the technical table used for this page states 650 L/s for nitrogen.

The original page title stated 700 L/s, but its own detailed specification stated 650 L/s. This English page uses the detailed value. Confirm the current datasheet, ordering code, controller, cable, cooling and orientation before ordering.

Use safe start, cooling, backing and vent interlocks. Do not expose a spinning rotor to shock, particles or sudden air inrush.

- 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
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- 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-160/701 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.