

PRODUCT TECHNICAL BRIEF

CBVAC JFB-100/301 Hybrid-Bearing Turbomolecular Pump, 300 L/s

CBVAC JFB-100/301 Hybrid-Bearing Turbomolecular Pump, 300 L/s - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Pumping speed	300 L/s for nitrogen; 230 L/s for helium
Ultimate pressure	$\leq 5 \times 10^{-7}$ Pa with CF inlet; $\leq 5 \times 10^{-6}$ Pa with LF/ISO-K inlet
Compression ratio	$> 1 \times 10^{10}$ for nitrogen; $> 5 \times 10^3$ for helium
Main inlet	DN100 LF/ISO-K or CF100
Foreline connection	KF25; KF40 option stated in source record
Recommended backing pump	2-6 L/s
Maximum continuous foreline pressure	300 Pa for nitrogen; 200 Pa for helium
Nominal rotor speed	48,300 rpm
Acceleration time	≤ 5 min
Controller supply	48 V DC integrated version or 220 V AC external-controller version
Communications	RS-485, Modbus RTU
Cooling	Natural convection, air or water, depending on load
Approximate weight	9.6 kg LF; 10 kg CF

Technical and Project Information

DN100 turbomolecular pump with 300 L/s nitrogen and 230 L/s helium pumping speed. CF and LF inlet versions, grease-lubricated ceramic ball bearings, integrated or external control, Modbus RTU and air or water cooling support high-vacuum systems.

CBVAC JFB-100/301 Turbomolecular Pump

The JFB-100/301 is a DN100 high-vacuum turbomolecular pump with a grease-lubricated ceramic ball-bearing rotor support. Integrated and external-controller versions are available.

Confirm the ordering code, inlet and foreline flanges, controller, cable, water-cooling set, purge option, permitted magnetic field and mounting orientation. Ultimate pressure is a test-condition value, not a guaranteed chamber pressure.

Integrate pressure, cooling and speed interlocks; protect the pump from particles, shock, sudden venting and operation above the permitted backing 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
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- High-Vacuum Pumping Stations
- KYKY RV Rotary-Vane 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-100/301 Hybrid-Bearing Turbomolecular Pump, 300 L/s

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