

PRODUCT TECHNICAL BRIEF

CBVAC MTP-4301 Magnetically Levitated Turbomolecular Pump, 4,300 L/s

CBVAC MTP-4301 Magnetically Levitated Turbomolecular Pump, 4,300 L/s - LeakLab solutions for leak testing, vacuum systems and test equipment.

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Technical Data

PARAMETER	PUBLISHED VALUE / INFORMATION
Pumping speed: N2 / H2	4,300 / 2,700 L/s
Ultimate pressure	$\leq 1 \times 10^{-7}$ Pa under stated conditions
Compression ratio: N2 / H2	$> 1 \times 10^8$ / $> 1 \times 10^3$
Main inlet / foreline	ISO320F with VG350/VG400 options stated / KF40
Supply / maximum input power	Single-phase 176-264 V AC, 50/60 Hz / 2,200 W
Nominal rotor speed	24,240 rpm
Acceleration / stopping time	≤ 12 min / ≤ 18 min
Recommended backing-pump speed	$> 1,300$ L/min
Cooling	Water, 3 L/min, 15-35 °C, 0.3-0.4 MPa
Inlet-flange degassing temperature	< 120 °C
Enclosure / mounting	IP54 / any orientation
Nitrogen purge	50 $\pm$ 10 sccm through KF10 port
Approximate weight	111 kg

Technical and Project Information

Magnetic-bearing turbomolecular pump with an integrated controller and 4,300 L/s nitrogen pumping speed. The MTP-4301 uses an ISO320F inlet, KF40 foreline connection, water cooling, optional TMS temperature management and nitrogen purge.

CBVAC MTP-4301 Magnetically Levitated Turbomolecular Pump

The MTP-4301 is a high-throughput magnetic-bearing turbomolecular pump for large industrial and research vacuum chambers. The integrated controller provides rotor suspension, drive and protection functions.

Confirm inlet version, controller, mains cable, cooling-water limits, TMS hardware, purge kit, backing pump and control interface. Maximum chamber performance depends on conductance and gas load.

Use certified lifting, rigid mounting and interlocked backing, cooling, speed, purge and controlled venting.

- 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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- Screw Vacuum Pumps
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- 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 MTP-4301 Magnetically Levitated Turbomolecular Pump, 4,300 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.