

## PRODUCT TECHNICAL BRIEF

# KYKY CXF-200/1401 Magnetically Levitated Turbomolecular Pump

KYKY CXF-200/1401 Magnetically Levitated Turbomolecular Pump - LeakLab solutions for leak testing, vacuum systems and test equipment.

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## Technical Data

| PARAMETER                                                      | PUBLISHED VALUE / INFORMATION                                                                                         |
|----------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------|
| Pumping speed: N <sub>2</sub> / Ar / He / H <sub>2</sub>       | 1,280 / 1,100 / 880 / 560 L/s                                                                                         |
| Compression ratio: N <sub>2</sub> and Ar / He / H <sub>2</sub> | >1 × 10 <sup>8</sup> / >1 × 10 <sup>4</sup> / >1 × 10 <sup>3</sup>                                                    |
| Ultimate pressure                                              | 1 × 10 <sup>-7</sup> Pa with elastomer seal; 1 × 10 <sup>-8</sup> Pa stated for applicable metal-sealed configuration |
| Main inlet                                                     | DN200 ISO-F standard; DN200 CF optional; DN200 LF custom                                                              |
| Foreline / optional barrier-gas ports                          | KF40 / KF10                                                                                                           |
| Recommended nitrogen barrier flow                              | 20 sccm                                                                                                               |
| Nominal rotor speed                                            | 30,000 rpm                                                                                                            |
| Acceleration / stopping time                                   | ≤6 min / ≤8 min                                                                                                       |
| Cooling                                                        | Water, 2 L/min, recommended 20 ±5 °C                                                                                  |
| Supply                                                         | 220 V AC ±10%, 50 Hz or 110 V AC ±10%, 60 Hz                                                                          |
| Compatible power/controller unit                               | CXFD-1001 in current KYKY product data; confirm exact supply scope                                                    |
| Mounting / weight                                              | Any orientation / approximately 51 kg                                                                                 |

## Technical and Project Information

Active-magnetic-bearing turbomolecular pump with a nominal nitrogen pumping speed of 1,280 L/s. The CXF-200/1401 has a DN200 ISO-F standard inlet, KF40 foreline connection, water cooling and optional barrier-gas protection for clean high-vacuum processes.

The CXF-200/1401 uses active magnetic bearings to support the rotor without mechanical bearing contact. It is intended for coating, etching, semiconductor, research and other high-vacuum systems where low vibration and a lubricant-free bearing system are important.

Confirm inlet seal, power unit, cables, cooling kit, barrier-gas option, backing-pump size and interface protocol. Ultimate pressure is conditional on seal type, cleanliness, bakeout, conductance and backing performance.

Use interlocked cooling, backing pressure, rotor speed and controlled venting. Protect the high-energy rotor from shock, particles and sudden gas 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
- 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
- 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](mailto:mail@leaklab.org)

Regarding: KYKY CXF-200/1401 Magnetically Levitated 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.