

STP-iXR2206 integrated turbomolecular pump

The STP-iXR2206 magnetically levitated turbomolecular pump provides industry-leading performance and incorporates latest technology small power supply into the onboard control. The revolutionary new rotor design enables the use of a smaller platform, resulting in a compact design with low input power.

The STP-iXR2206 is one of the smallest pumps in the market providing 2200 l/s N₂ pumping speed. It offers high performance combined with installation flexibility to fit into challenging mounting locations. The STP-iXR2206 integrates a newly developed rotor design with a new energy saving platform enabling low power consumption and low cost of ownership.



Features and benefits

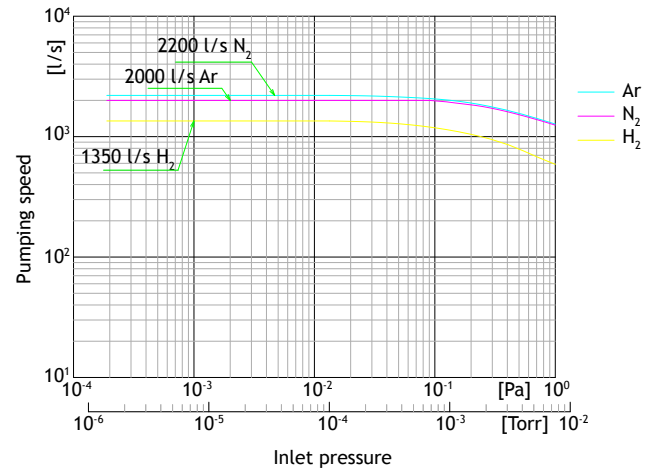
- All-in-one compact design
 - Smaller size and lighter weight compared to Edwards' existing on-board products
 - Compact design results in easy installation and small footprint
- High performance
 - Achieves highest pumping speed with smallest footprint in its class
 - Allowable flow up to 3100 sccm N₂ or 1700 sccm Ar
- Energy saving
 - 30% reduction in input power compared to Edwards' existing on-board products
- Various communication options
 - I/O Remote, RS232, RS485, STP-Link are standard ports
 - Profibus optional variant
 - DeviceNet optional variant
- Fits a wide installation environment
 - Water and Dust Proof Specification (protection level IP54) is provided as standard
 - Pump can operate with cooling water supply up to 35 °C
- Compliant with international standards
 - CE Marked, UL marked, SEMI-S2 and RoHS Compliant

Technical data

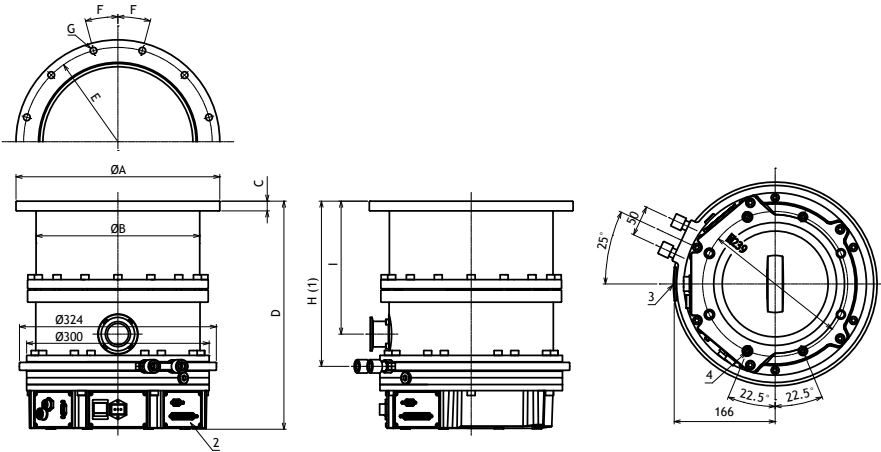
| | | |
|--|---------------------------------------|-------------------------------|
| Inlet flange size | VG250/ISO250F/DN250CF | |
| Backing port size | KF40 | |
| Pumping speed N ₂ | 2200 | litres/second |
| Pumping speed H ₂ | 1350 | litres/second |
| Pumping speed Ar | 2000 | litres/second |
| Compression ratio N ₂ /H ₂ | >10 ⁸ /1 x 10 ³ | |
| Ultimate pressure | 10 ⁻⁷ (10 ⁻⁹) | Pa (Torr) |
| Allowable backing pressure | 266 (2) | Pa (Torr) |
| Max gas flow N ₂ (water cooled only) *1 | 3100 (5.24) | sccm (Pa m ³ /sec) |
| Max gas flow Ar (water cooled only) *1 | 1700 (2.87) | sccm (Pa m ³ /sec) |
| Rated speed | 36500 | rpm |
| Start time | ≤10 | minutes |
| Mounting position | Any orientation | |
| Input voltage | 200-240 | V |
| Max input power | 750 | VA |
| Weight | 48 | kg |

*1 The maximum gas flow quoted applies under the conditions that N₂ gas is pumped continuously with water cooling temperature under 25 degree C, with N₂ purge and a backing pump 10,000 l/min size or larger used. The value is changed if operated under different conditions

Pumping speed (without inlet screen)



Dimensions



| | VG250 | ISO250F | DN250CF |
|---|-------------|-------------|-------------|
| A | 350 (13.78) | 335 (13.19) | 305 (12.01) |
| B | 269 (10.59) | 269 (10.59) | 369 (10.59) |
| C | 16 (0.63) | 16 (0.63) | 28 (1.10) |
| D | 375 (14.76) | 375 (14.76) | 400 (15.75) |
| E | 320 (12.60) | 310 (12.20) | 284 (11.18) |
| F | 15° | 15° | 5.625° |
| G | 12-Ø15 | 12-Ø11 | 32-Ø8.4 |
| H | 271 (10.67) | 271 (10.67) | 396 (15.59) |
| I | 219 (8.62) | 219 (8.62) | 244 (9.61) |

Global contacts

EUROPE

UK Crawley +44 1293 528844
 UK (local rate) 08459 212223
 Belgium Brussels +32 2 300 0730
 France Paris +33 1 4121 1256
 Germany Munich 0800 000 1456
 Italy Milan +39 02 48 4471

USA

Niagara (toll free) +1 800 848 9800

BRAZIL

Sao Paulo +55 11 3952 5000

ISRAEL

Qiryat-Gat +972 8 681 0633

ASIA PACIFIC

China (toll free) +86 400 111 9618

India, Pune +91 20 4075 2222

Japan, Yachiyo +81 47 458 8831

Korea, Bundang +82 31 716 7070

Singapore +65 6546 8408

Taiwan R.O.C. Jhunan Town +886 3758 1000



WWW.EDWARDSVACUUM.COM

info@edwardsvacuum.com

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