

STP-iXA3306 integrated turbomolecular pump

The STP-iXA3306 series magnetically levitated turbomolecular pump provides industry-leading performance and incorporates a small power supply into the onboard control unit – the latest technology of the well-established STP-iXA3305 series.

The height of the pump is equal to the STP-XA2703/XA3203 and is also equal to the height of the STP-iXA3305 series without its power supply (IPS-1200). This fully integrated product offers easy installation and a small footprint as an all-in-one solution for all application tools.



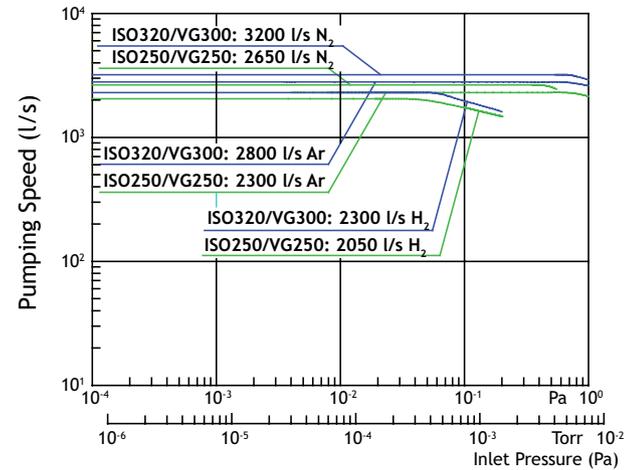
Features and benefits

- Fully Integrated Onboard Controller
 - Eliminates connection cable between pump and control unit
 - Eliminates installation space and cost required by conventional racked type control unit
 - Second speed function is available
 - Dust and water protection (equivalent to IP54 specification) as standard
 - Improved P-Q performance compared to STP-XA2703/XA3203 on high flow gas
- Compact Design
 - Height of STP-iXA3306 series is equal to existing STP-XA2703/XA3203 and a 25% reduction over STP-iXA3305CP
 - Size compatibility and elimination of the thick interconnecting cable enables easy retrofit from existing pump models
- Maintenance Function
 - Same maintenance call functions are available as the SCU-1400/1500/1600 controller models. Process Recorder Function (records certain pump parameters at designated interval) is newly added, which supports determination of the optimum maintenance interval timing
- Options
 - TMS unit is available for processes generating by-products
- Communication
 - I/O Remote, RS232C, RS485, STP-Link are standard ports
 - Profibus, DeviceNet and Lonworks can be selected as an option
- Compliant Standards
 - UL marked, CE marked, SEMI-S2 compliant with RoHS directive

Technical data

Inlet flange size	ISO250F/ VG250/ ICF305	ISO320F/ VG300/ ICF356	
Backing port size	KF40		
Pumping speed N ₂	2650	3200	Litres/second
Pumping speed Ar	2300	2800	Litres/second
Compression ratio N ₂ /H ₂	>10 ⁸ / 2 x 10 ³		
Ultimate pressure	10 ⁻⁷ (10 ⁻⁹)		Pa (Torr)
Allowable backing pressure	266 (2)		Pa (Torr)
Max gas flow N ₂ *1 (water cooled only)	4000 (6.76)		sccm (Pa m ³ /sec)
Max gas flow Ar *1 (water cooled only)	2100 (3.55)		sccm (Pa m ³ /sec)
Rated speed	27700		rpm
Starting time	<10		minutes
Mounting position	Any orientation		
Input voltage	200-240		V
Max input power without TMS	1500		VA
Max input power with TMS	1800		VA
Weight			
Weight	80	83	kg

Pumping speed

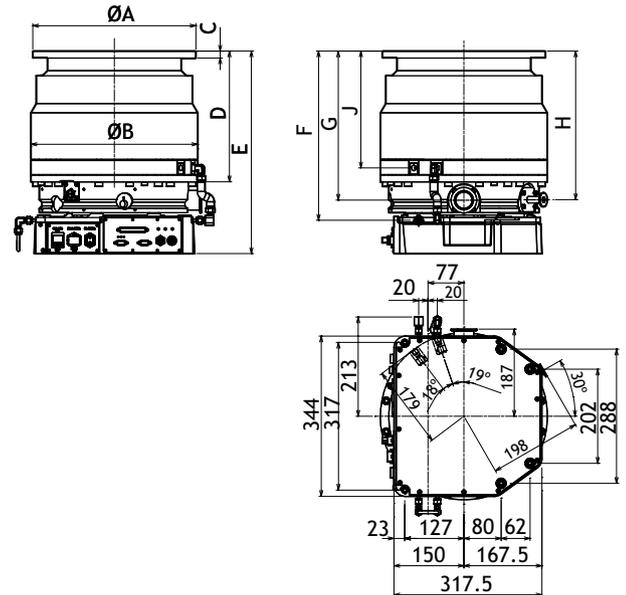


STP-iXA3306 Series Pumping Speed
(without Inlet screen)

*1: The maximum gas flow is applicable under conditions that N₂ or Ar gas is pumped continuously with water cooling temperature under 25° C and the backing pump (10,000 l/min size) is used. It is changed on condition.

Dimensions

Inlet port flange	VG250	ISO250F	VG300	ISO320F	ICF305	ICF356
ØA	350	335	400	425	305	356
ØB	358	358	358	358	358	358
C	15	15	18	20	28	28.5
D	281	281	242	242	286	281
E	435	435	396	396	440	435
F	363	363	325	325	368	364
G	320	320	282	282	325	321
H	319	319	281	281	324	320
J	251	251	212	212	256	251



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