PRODUCT DATA SHEET



STP-iS2207 INTEGRATED TURBOMOLECULAR PUMP

edwardsvacuum.com

The STP-iS2207 magnetically levitated turbomolecular pump provides industry-leading performance and incorporates latest technology small power supply into the onboard control. The new rotor design enables the use of a smaller platform, resulting in a compact design with low input power.

The STP-iS2207 is one of the smallest pumps in the market providing 2200 l/s N_2 pumping speed. It offers high performance combined with installation flexibility to fit into challenging mounting locations. The STP-iS2207 incorporates a newly developed rotor design with an energy saving platform enabling low power consumption, low cost of ownership, and reduces the effects of corrosion.



Point 1 Compact Design

Point 2 **Energy Saving**

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 smaller footprint

Communication options

- I/O Remote, RS232, RS485 are standard ports
- Profibus, STP-Link are optional

Advanced rotor technology

• Harsh process compatible (C version)

Compliant with international standards

• CE Marked, UL marked, RoHS Compliant

High performance

- Achieves highest pumping speed with smallest footprint in its class
- \bullet Allowable flow up to 3200 sccm N_2 or 1000 sccm Ar

Energy saving

 30% reduction in input power compared to Edwards' existing on-board products (STP-iXA2206)

Fits a wide installation environment

- · Water and Dust resistant design
- Pump can operate with cooling water supply up to 35 °C

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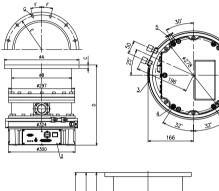
Technical Data

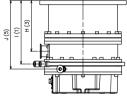
Inlet flange size		VG200 / ISO200F ICF253	VG250 / ISO250F ICF305	
Backing port size		KF	40	
Pumping speed N ₂	litres/second	1,850	2,200	
Pumping speed Ar	litres/second	1,650	2,000	
Pumping speed H ₂	litres/second	700	750	
Compression ratio Ar		1×	10 ⁷	
Compression ratio H ₂		2.5	×10²	
Ultimate pressure	Pa (Torr)	10-6 (10-8) [after baking]	
Allowable backing pressure	Pa (Torr)	200	(1.5)	
Max gas flow N ₂ (water cooled only) (1)	sccm (Pa m₃/sec)	3200	(5.41)	
Max gas flow Ar (water cooled only) (1)	sccm (Pa m₃/sec)	1000 (1.69)		
Rated speed rpm		36,	500	
Starting time minutes		≦8		
Mounting Position		Any ori	entation	
nput voltage V		200-240		
Max input power	VA	750		
Weight	Kg		15	

(1) The maximum gas flow quoted applies under the conditions that N_2 gas is pumped continuously with water cooling temperature under 25°C, with N_2 purge and a backing pump 10,000 l/min size or larger used. The value is changed if operated under different conditions.

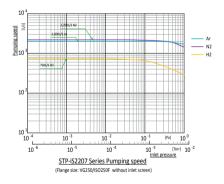
Inlet port flange	VG200	VG250	ISO200F	ISO250F	ICF253	ICF305
фА	300	350	285	335	253	305
фВ	269	269	269	269	269	269
С	16	16	16	15	25	28
D	405	360	405	360	405	385
фЕ	270	320	260	310	231.8	284
F	22.5°	15°	15°	15°	7.5°	5.625°
G	8-ф15	8-ф15	12-ф11	8-ф11	24-ф8.4	32-ф8.4
Н	242	197	242	197	242	222
1	291	246	291	246	291	271
J	311	266	311	266	311	291

No.	Item	Description
1	Height of water cooling	Rc1/4
	port	
2	Control unit	
3	Outlet port flange	KF40
4	Screw hole for securing	4-M8
	the base	Depth 20
5	Purge port	KF10





Performance Curves



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