

# STPA2203C advantage turbomolecular pump

The STPA2203C is a turbomolecular pump designed for use in semiconductor applications. It has advanced rotor technology that gives class-leading performance for maximum process flexibility.

A half rack controller gives additional space savings and incorporates DC drive technology for battery-free operation. The STPA2203C has been approved for use by major etch, ion implant and deposition equipment manufacturers in the semiconductor and magnetic media industries.



## Features and benefits

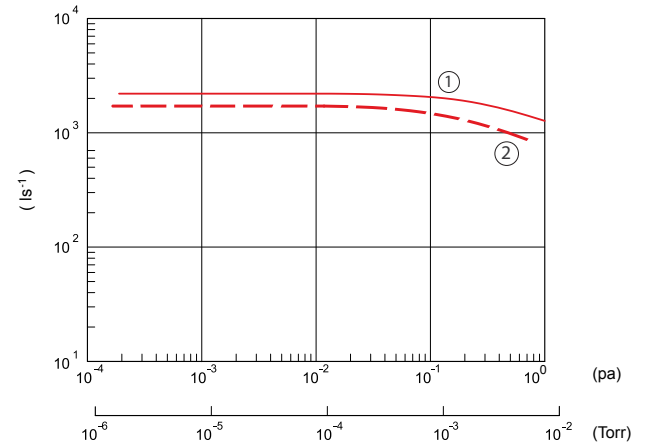
- Advanced rotor technology
  - Higher gas throughput
  - Maximised process flexibility
- 5 axis magnetic suspension system
  - Zero contamination
  - Low maintenance
- Corrosion resistant
  - Harsh process compatible
  - Increased life
- Advanced controller design
  - Auto tuning
  - Self diagnostic functions
  - DC motor drive
  - Battery-free operation
- Compact design
  - Small footprint
  - Half rack controller

# Technical data

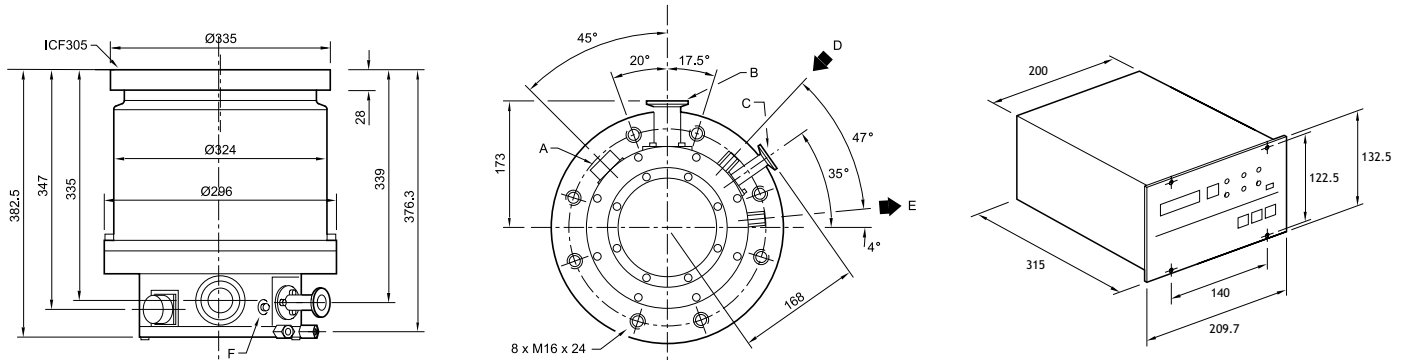
Inlet flange size	ISO250F/DN250CF	
Pumping speed N <sub>2</sub> /H <sub>2</sub>	2200/1700	Litres/second
Compression ratio N <sub>2</sub> /H <sub>2</sub>	>10 <sup>8</sup> / 2.5 x 10 <sup>4</sup>	
Ultimate pressure	10 <sup>-7</sup> (10 <sup>-9</sup> )	Pa (Torr)
Maximum allowable inlet pressure	2.7 (0.02)	Pa (Torr)
Maximum allowable backing pressure	400 (3)	Pa (Torr)
Maximum allowable gas flow N <sub>2</sub>	1500 (2.54)	sccm (Pa m <sup>3</sup> /sec)
Rated speed	27000	rpm
Starting time	7	minutes
Maximum inlet flange temperature <sup>†</sup>	120	°C
Input voltage ± 10%	200-240	AC V
Typical power consumption	1500	VA
Weight, pump/controller	61/12	kg

<sup>†</sup> with cooling

## Performance curves



## Dimensions



## Ordering information

Pump	
Description	Order No.
STPA2203C ISO250F inlet	YT4V0Z002
STPA2203C DN250CF inlet	YT4V0Z003
STPA2203CV (TMS) ISO250F inlet	YT4V66001
STPA2203CV (TMS) DN250CF inlet	YT4V66002

Custom configurations are available for specific OEM applications

Accessories and spares	
Description	Order No.
SCU-1600 control unit	YT76Z0Z00
Power cable 5m	B75030020
Power cable 10m	PT35Y0A00
Straight connection cable 5m	B75030010
Straight connection cable 10m	B75030040
TMS connection cable kit 5m	PT351V000
TMS connection cable kit 10m	PT351V001
TMS connection cable kit 15m	PT351V002

A Electrical Connector  
 B Output Port  
 C Purge Port  
 D Cooling water out  
 E Cooling water in  
 F Temp sensor connector

# Global contacts

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