STP603/603C turbomolecular pump

The STP603 and corrosion resistant STP603C are turbomolecular pumps designed for use in the most advanced semiconductor applications.

Edwards rotor technology gives class-leading performance for maximum process flexibility. Both pumps have been approved for use by major equipment manufacturers in the semiconductor and magnetic media industries.

Features and benefits

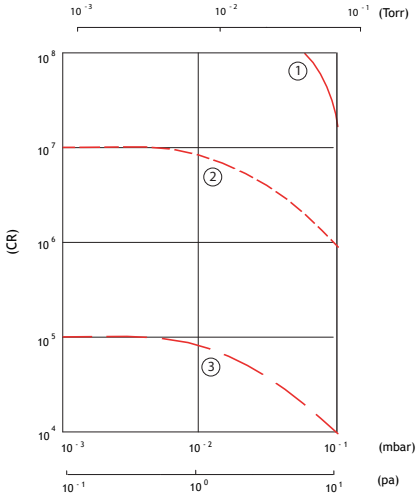
- Advanced rotor technology
  - Maximised process flexibility
  - Oil free
  - Low vibration
  - High reliability
  - Maintenance free
  - Harsh process compatible (C version)
  - Increased life
- Advanced controller design
  - Auto tuning
  - Self diagnostic functions
  - DC motor drive
  - Battery-free operation
- Compact design
  - Small footprint
  - Half rack controller

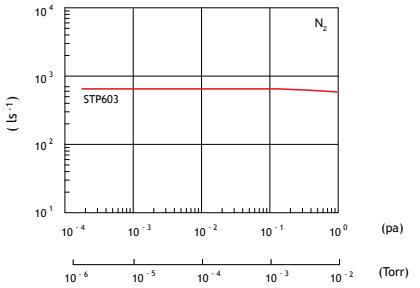
Technical data

	STP603	STP603C	
Inlet flange size	ISO160K/ISO160F		
Pumping speed N_2/H_2	650/550		Litres/second
Compression ratio N_2/H_2	>10^8/ 10^5		
Ultimate pressure			
ISO inlet flange	10^{-7} (10^{-9})	6.5 x 10^{-6} (5 x 10^{-8})	Pa (Torr)
CF inlet flange	10^{-8} (10^{-10})	10^{-7} (10^{-9})	Pa (Torr)
Maximum continuous outlet pressure*	13 (0.1)		Pa (Torr)
Maximum Nitrogen throughput*†	130		sccm
Rated speed	35000		rpm
Start time	6		minutes
Maximum inlet flange temperature‡	120		°C
Power consumption (continuous)	800		VA
Input voltage	100 - 120 or 200 - 240		V
Weight, pump/controller	31/9		kg

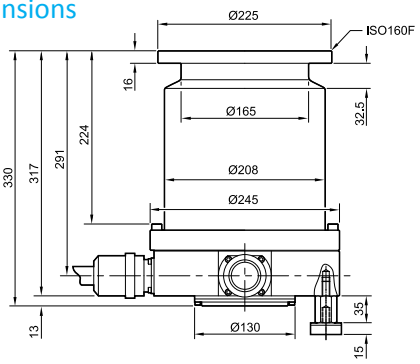
** water cooled † C version ‡ with cooling*

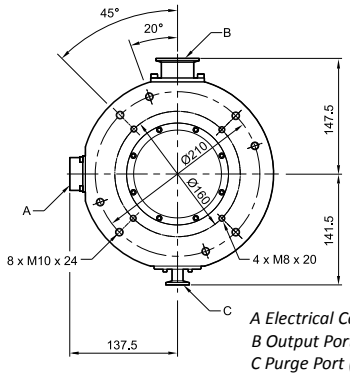
Performance curves





Dimensions





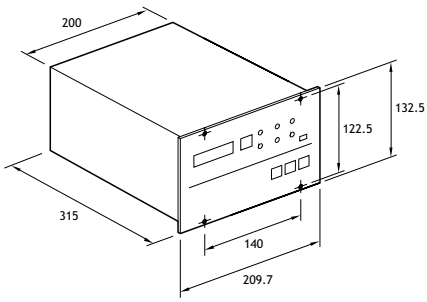
A Electrical Connector
B Output Port
C Purge Port (C version)

Ordering information

Description	Order No.
STP603 ISO160F pump	YT39B0030
STP603 DN160CF pump	YT390Z005
STP603C ISO160F pump	YT39B0110
STP603C DN160CF pump	YT39AZ002

Custom configurations are available for specific OEM applications.
K type flange also available.

Description	Order No.
SCU-800 control unit	YT49Z2Z00
Water cooling coil	YT170A001
Air cooler 100-120 VAC	YT011A003
Air cooler 200-240 VAC	YT011A005
Vibration isolator ISO200K	B58061000
Power cable 5m	PT49Y0A00
Power cable 10m	PT49Y0A01
Connection cable 3m	B75130050
Straight connection cable 5m	B75130020
Straight connection cable 10m	B75130060



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