STPH301C high performance turbopump

The high performance STPH301C turbomolecular pump has been designed for use in the harshest of semiconductor applications.

Field proven reliability and class leading performance give maximum process flexibility. The STPH301C has been approved for use by major equipment manufacturers in the semiconductor and magnetic media industries.

Features and benefits

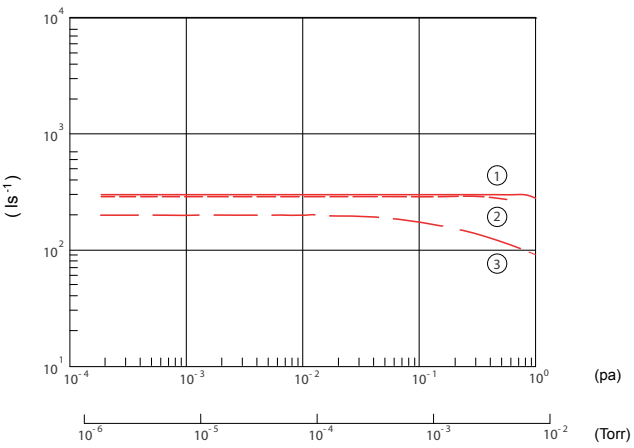
- Advanced rotor technology
  - Higher gas throughput
  - Maximised process flexibility
  - Oil free
  - Low vibration
  - High reliability
  - Maintenance free
  - Harsh process compatible
  - Increased life
- Advanced controller design
  - Auto tuning
  - Self diagnostic functions
  - DC motor drive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

Technical data

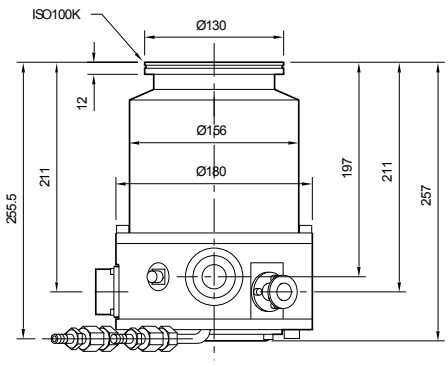
Inlet flange size	ISO100K	
Pumping speed N_2/H_2	300/200	Litres/second
Compression ratio N_2/H_2	$>10^8/10^3$	
Ultimate pressure	10^{-7} (10^{-9})	Pa (Torr)
Maximum continuous outlet pressure*	665 (5)	Pa (Torr)
Maximum Nitrogen throughput*	2500 (4.2)	sccm (Pa m^3/sec)
Rated speed	48000	rpm
Starting time	4	minutes
Maximum inlet flange temperature‡	120	°C
Power consumption (Max, without TMS)	600	VA
Input voltage	100-240	V
Weight, pump/controller	15/9	kg

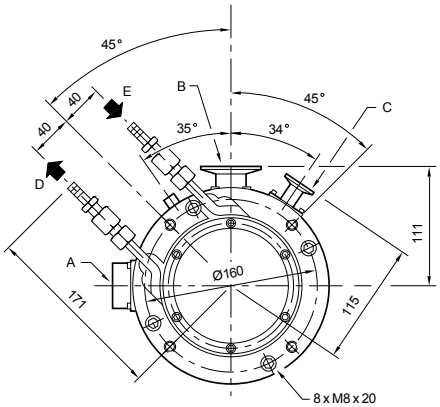
** water cooled ‡ with cooling*

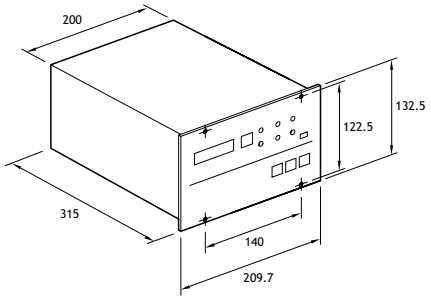
Performance curves



Dimensions







A Electrical Connector
B Output Port
C Purge Port
D Cooling water out
E Cooling water in
F Temp sensor connnector (option)

Ordering information

Pump	
Description	Order No.
STPH301C ISO100K inlet	B71901010
STPH301C DN100CF inlet	YT340Z004
STPH301CV (TMS) ISO100F inlet	YT3416001
STPH301CV (TMS) DN100CF inlet	YT3416005

Custom configurations are available for specific OEM applications

Accessories and spares	
Description	Order No.
SCU-800 control unit	YT49Z2Z00
Power cable 5m	PT49Y0A00
Power cable 10m	PT49Y0A01
Connection cable 3m	B75130050
Straight connection cable 5m	B75130020
Straight connection cable 10m	B75130060
TMS connection cable kit	PT330V000
TMS connection cable kit	PT330V001
TMS connection cable kit	PT330V002

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