



# Agilent TV-2300 TwisTorr

## Technical Specifications

### Vacuum Performances

Pumping speed for N <sub>2</sub> (*)	2050 l/s
Pumping speed for He (*)	1800 l/s
Pumping speed for H <sub>2</sub> (*)	1500 l/s
Compression ratio for N <sub>2</sub>	>8 x 10 <sup>8</sup>
Compression ratio for He	8 x 10 <sup>5</sup>
Compression ratio for H <sub>2</sub>	4 x 10 <sup>4</sup>
Base pressure* (with recommended forepump)	10 <sup>-10</sup> mbar (7.5 x 10 <sup>-11</sup> Torr) (**)
Max foreline pressure for N <sub>2</sub>	4 mbar
Inlet Flange	ISO 250F, CFF 12" O.D.
Foreline flange	KF 40 NW
Nominal rotational speed	33300 rpm
Start-up time without gas load and with the recommended forepump	< 6 minutes
Minimum recommended forepump	TriScroll 600
Operational position	Any
Operating ambient temperature	+5 °C to +35 °C
Bakeout temperature	120°C (CFF), 80°C (ISO)
Max rotor temperature	120 °C
Vibration level (displacement)	< 0.01 µm at inlet flange
Lubricant	Permanent lubrication
Cooling requirements	Water
Coolant water	Recommended flow: 200 l/h Temperature: +15 °C to +30 °C Pressure: 3 to 5 bar (45 to 75 psi)
Noise level	<60 dB(A) at 1 meter
Storage temperature	-20° C to +70° C
Environment protection	IP54
Weight kg (lbs)	ISO 250: 54.2 (119.5) CF 12": 55.3 (121.9)

(\*): WITHOUT INLET SCREEN

(\*\*): According to standard DIN 28 428, the base pressure is that measured in a leak-free test dome, 48 hours after the completion of test dome bake-out, with a Turbopump fitted with a CFF flange and using the recommended pre-vacuum pump

### Controller Specifications

Input voltage	100, 120, 220, 240 Vac, 1-phase
Input frequency	50 - 60 Hz
Maximum input power	1300 VA
Output voltage	64 Vac
Output frequency	555 Hz
Output Power starting	560 W maximum
Output Power normal	450 W maximum
Weight (both models)	12,5 kg (28 lbs)
Installation category	II
Pollution degree	2





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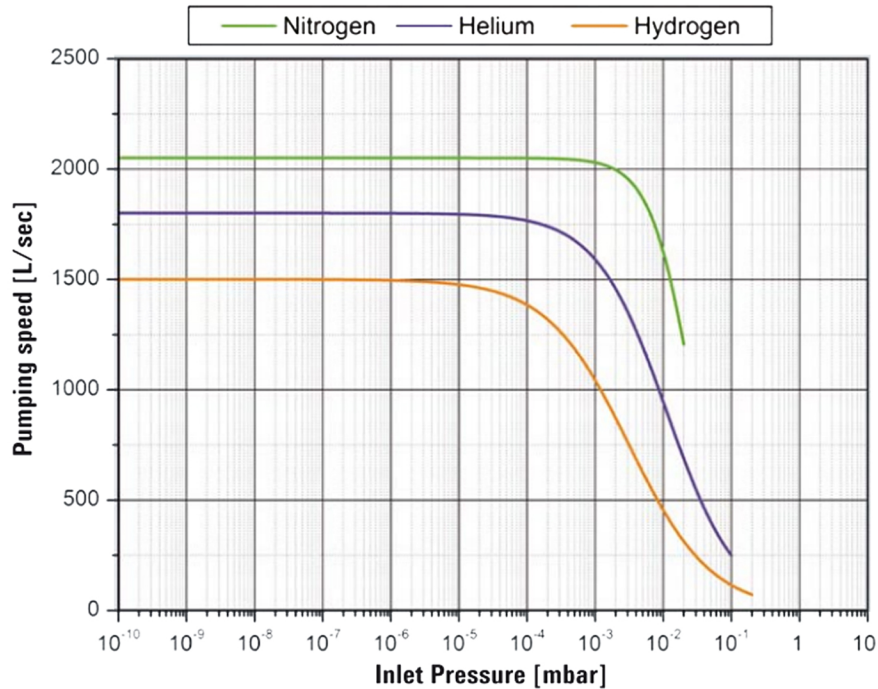
## SALES

PHONE: 831-462-8900

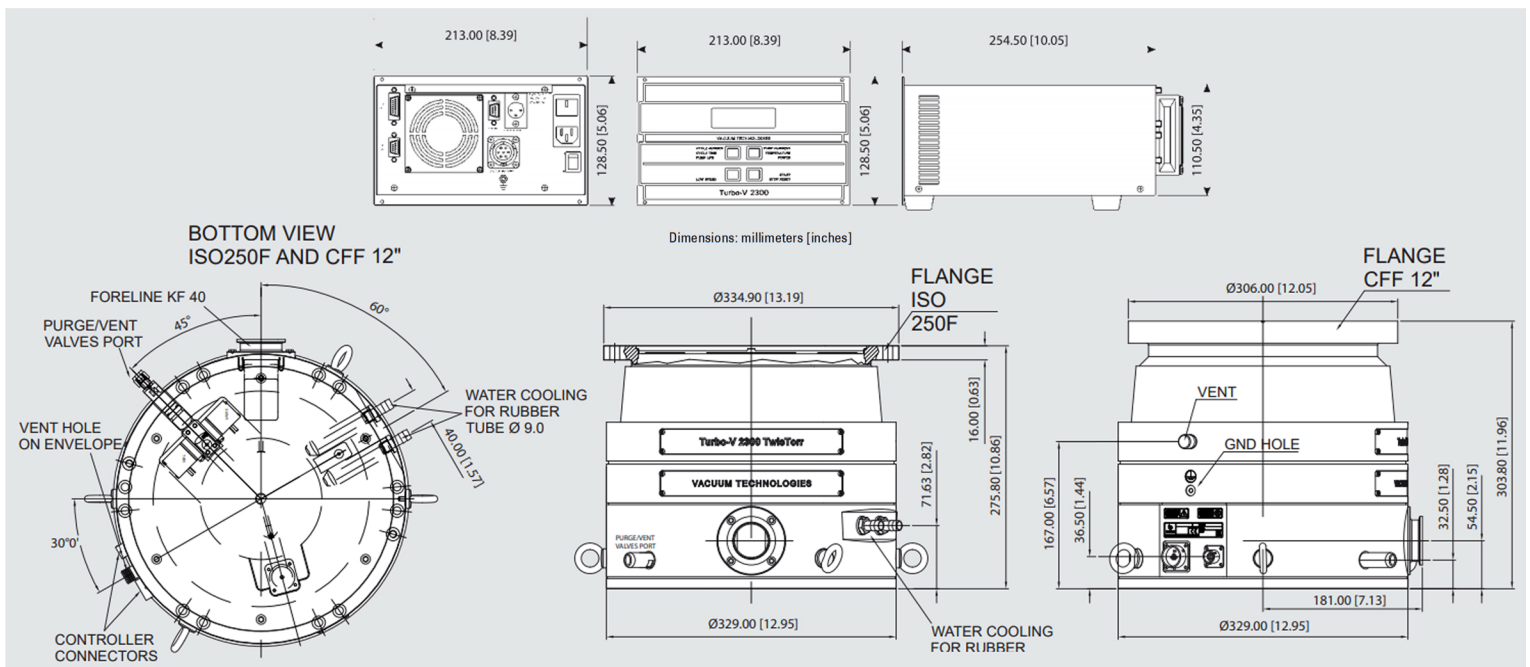
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# Agilent TV-2300 TwisTorr Pumping Curves



## Dimensions





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## S A L E S

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# Agilent TV-2300 TwisTorr

## Features & Benefits

- highest pumping speed in its class
- space saving design
- monolithic rotor reduces material stress
- electrical motor reduces start-up time & improves pump stability
- higher compression ratios for lighter gases than other large turbos
- operated with a dedicated full display rack controller
- dedicated UHV solution
- advanced electronics
- clean, maintenance-free vacuum

## Applications

- academic research • electron microscopes • analytical instruments
- industrial • semiconductor • mass spectrometry • thin film deposition
- device processing