

Agilent Turbo-V 2K-G System



Product description

The high-throughput turbomolecular pump, the Agilent Turbo-V 2K-G, is a dedicated vacuum pumping system offering 1,600 L/s pumping speed. The Turbo-V 2K-G is designed for industrial use specifically as a turbo pump for thin film deposition equipment. Its pumping stages, and the entire pump structure, are optimized to work with very high flows of argon under high temperature load.

This robust turbo pump is suitable for harsh manufacturing environments because of its rugged design. Typical industrial vacuum coating applications include solar and flat panel display manufacturing. The pump's robust design and its advanced electronic integrated solution make the Turbo-V 2K-G the optimum pumping solution for the vacuum coating industry.

Features and benefits

- The first application-specific pumping solution designed for thin film deposition equipment
- The highest performing, most compact unit available
- The first fully integrated approach for maximum system productivity and uptime

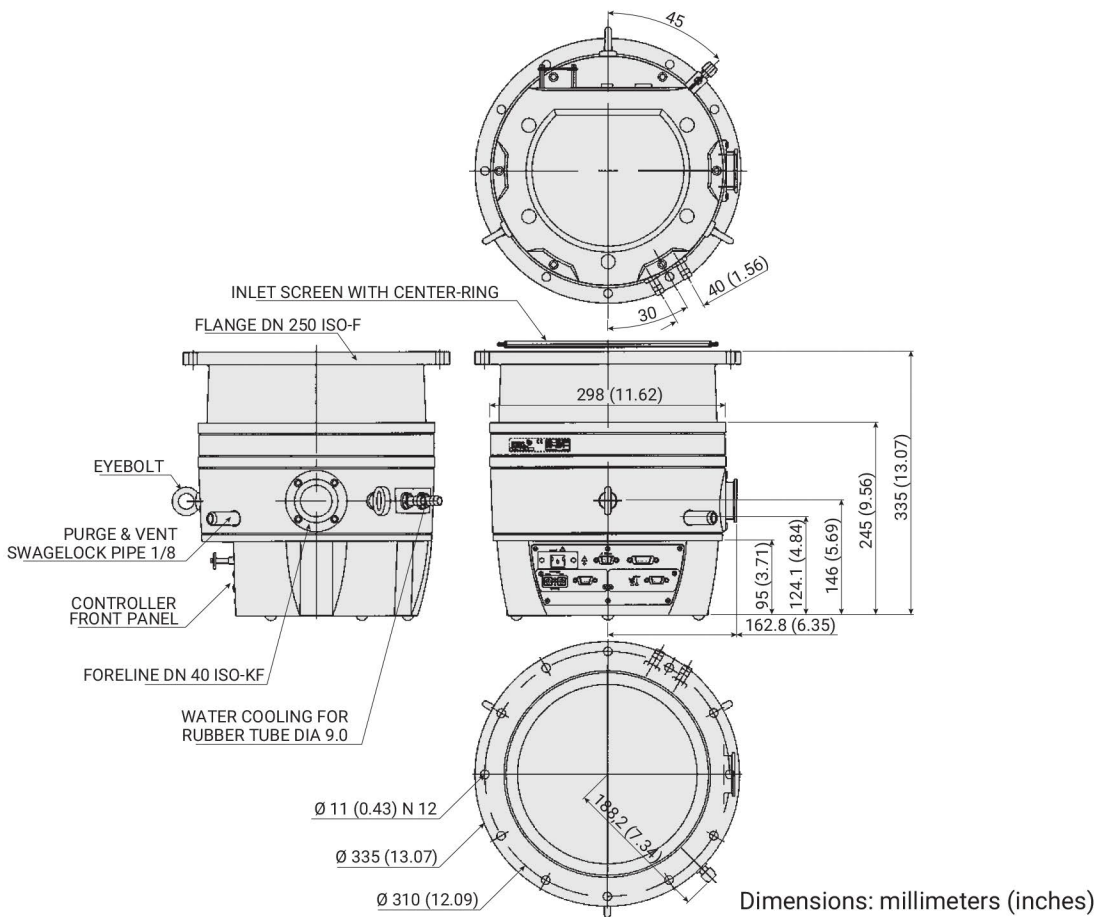
The system interface

- Integrated package includes turbo molecular pump, drive electronics, power supply, purge gas, and communication
- Versatile electronics interface with easy to use control software
- Analog I/O signals and RS232/RS485 interface as standard Agilent Profibus interface as option



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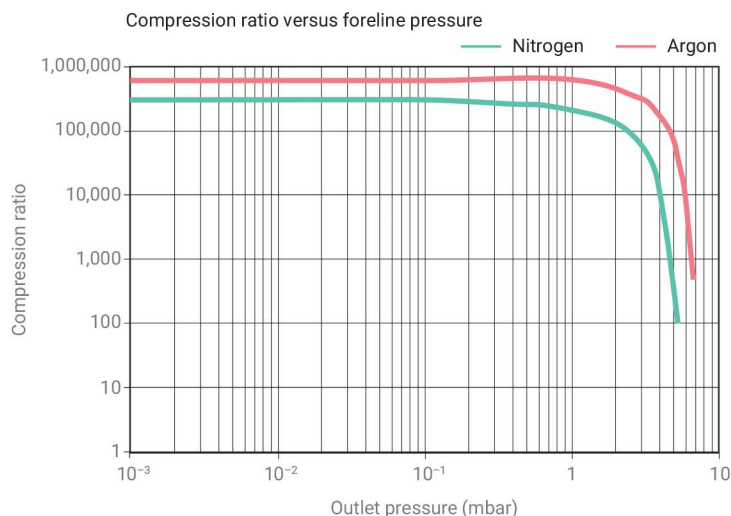
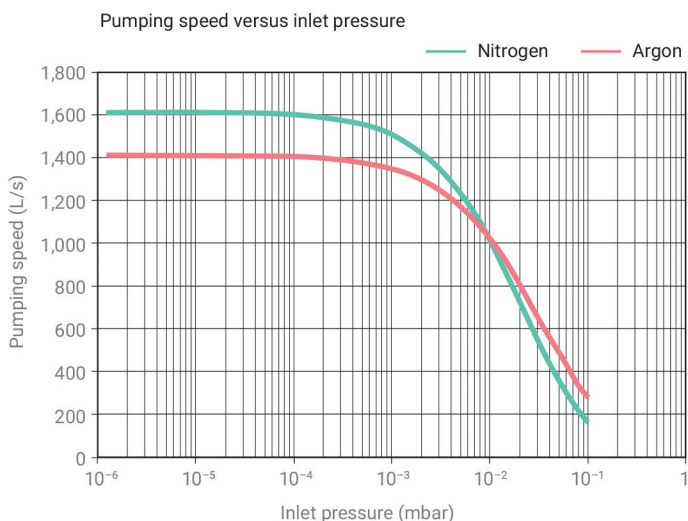




Technical specifications

Pumping Speed	N ₂ : 1,600 L/s
Compression Ratio	N ₂ : 3 × 10 ⁵
Base Pressure* (with Recommended Forepump)	<1 × 10 ⁻⁸ mbar
Inlet Flange	DN 250 ISO-F
Foreline Flange	DN 40 ISO-KF
Nominal Rotational Speed	33,000 rpm
Start-Up Time	<7 minutes
Recommended Forepump	>40 m ³ /h
Operating Position	Any
Operating Ambient Temperature	5 to 40 °C
Cooling Water Requirements	Minimum flow: 200 L/h (0.89 GPM) Temperature: +10 °C to +35 °C Pressure: 3 to 5 bar (45 to 75 psi)
Power Supply	Input voltage: 100 to 240 Vac Input frequency: 50 to 60 Hz
Communication Interface	Analogue I/O: Standard RS232/RS485: Standard Profibus: Optional
Dimensions	Height: 335 mm (13.18 in) Diameter: 335 mm (13.18 in) Weight: 35 kg (77 lb)
Communications Interface	RS232 cable with a 9-pin D type male connector and a 9-pin D type female connector, Profibus optional

* According to standard DIN 28 428.



Ordering information

Description	Part Number
Pumping Systems (*)	
Turbo-V 2K-G System	9698871
Turbo-V 2K-G System with Profibus	9698873

(*) Pumping systems include pump with 230 V integrated electronics, water hose connection, inlet screen with center-ring and pre-installed IP54 mating connectors. 120 Vac units are available on request.

Accessories	
Mains Cable NEMA Plug, 3 m Long	9699958
Mains Cable European Plug, 3 m Long	9699957
RS232 – Serial Cable	9699883
Water Cooling Kit for 6 × 8 mm (id × od) Flexible Hose	9699348
Water Cooling Kit for 3/8 in. id Flexible Hose	9699338
Water Cooling Kit for 9 mm id Flexible Hose	9699825
Turbo-V Remote Cable, 5 m Long	9699945
Turbo-V Remote Display Panel	9698850
Spare Parts	
IP54 Proof DB15 Mating Connectors	9698960
Inlet Screen DN 250 with Center Ring	9699138

www.agilent.com/en/product/vacuum-technologies/turbo-pumps-controllers/turbo-pumps/turbo-v-2k-g-pump

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