AGILENT TURBO PUMP MODELS

▶ Agilent Turbo-V 2K-G System

INLET SCREEN WITH CENTER-RING
FLANGE ISO 250F
EYEBOLT
PURGE & VENT SWAGELOCK PIPE 1/8
CONTROLLER FRONT PANEL
FORELINE KF 40
WATER COOLING FOR RUBBER TUBE DIA 9.0

45
40 (1.56)
30
298 (11.62)
335 (13.07)
245 (9.56)
95 (3.71)
124.1 (4.84)
146 (5.69)
162.8 (6.35)

Ø 11 (0.43) N 12
Ø 335 (13.07)
Ø 310 (12.09)
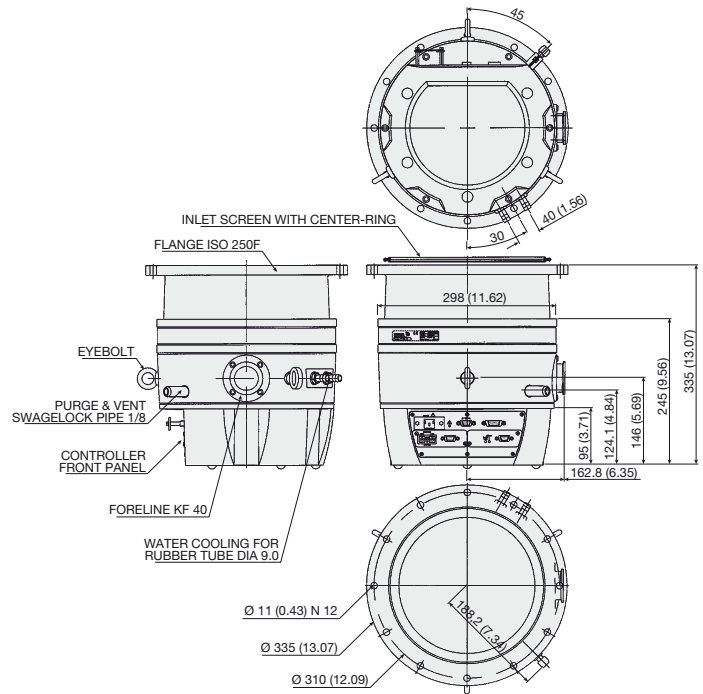
Dimensions: millimeters (inches)

Turbo-V 2K-G System

- 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
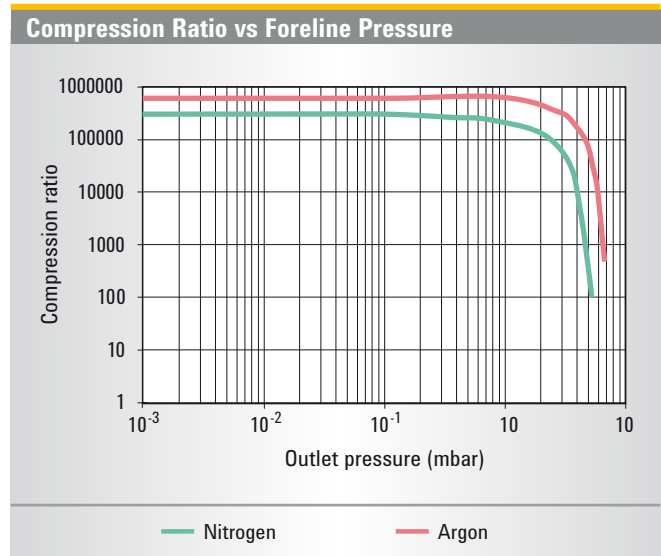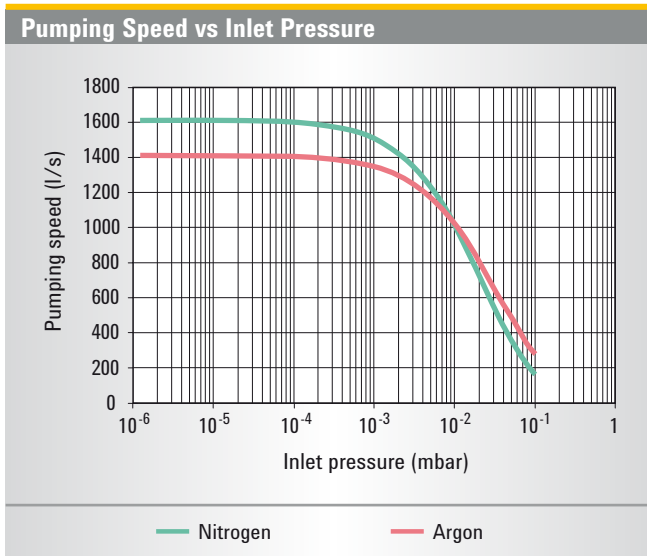
The System Interface

- 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

Technical Specifications

Pumping speed		N_2: 1600 l/s
Compression ratio		N_2: 3 x 10^5
Base pressure* (with recommended forepump)		< 1 x 10^{-8} mbar
Inlet flange		ISO 250 F
Foreline flange		KF 40 NW
Nominal rotational speed		33,000 rpm
Start-up time		<7 minutes
Recommended forepump		> 40 m^3 /h
Operating position		Any
Operating ambient temperature		+5 °C to +40 °C
Power supply	Input voltage	100 - 240 Vac
	Input freq.	50 - 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 lbs)

* According to standard DIN 28 428.

TURBO PUMPS

Pumping Speed vs Inlet Pressure

Pumping speed (l/s) vs Inlet pressure (mbar)

Legend: Nitrogen, Argon

Compression Ratio vs Foreline Pressure

Compression ratio vs Outlet pressure (mbar)

Legend: Nitrogen, Argon

Ordering Information

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

(*) Pumping Systems include Pump with 230 V Integrated Electronics, water hose connection, Inlet Screen with center-ring and pre-installed IP54 Mating Connectors. Both standard models can be equipped with Agilent's MoniTorr device on request. Also 120 Vac units available on request.

Accessories	
Mains cable NEMA Plug, 3 m long	9699958
Mains cable European Plug, 3 m long	9699957
T-Plus Software and serial cable	9699883
Water cooling kit for 6x8 (IDxOD) flexible tube	9699348
Water cooling kit for ⅜ in.ID flexible tube	9699338
Turbo-V remote cable	9699945
Turbo-V remote panel	9698850

Spare Parts	
IP54 proof mating connectors	9699958
Inlet screen ISO 250 with center ring	9699138
Water hoses	9699825

Turbo
Pumps