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Agilent TwisTorr 804FS

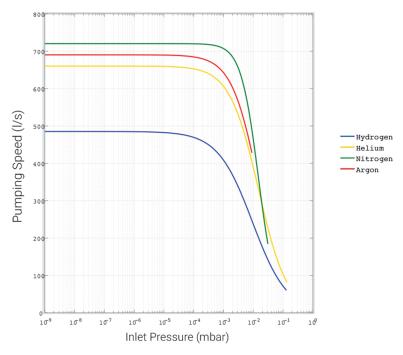
Technical Specifications

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Pumping speed	ISO200K-F	ISO250K-F	CFF10		
N ₂ He H ₂ Ar	720 L/s 660 L/s 485 L/s 690 L/s				
Max Gas Throughput (*)	Air Cooling (25°C ambient temperature)	(15°0	Water Cooling C water temp. / 25°C ambient temp.)		
N ₂	4.3 mbar L/s 255 SCCM		6.2 mbar L/s 367 SCCM		
Не	7.9 mbar L/s 467 SCCM	10.4 mbar L/s 615 SCCM			
Ar	1.5 mbar L/s 89 SCCM	3.3 mbar L/s 195 SCCM			
(*) Backing pump 11.0	(*) Backing pump 11.6 m³/hr				
Compression ratio and foreline tolerance**					
N ₂ He H ₂ Ar	> 1 x 10 ¹¹ 2 x 10 ⁸ 3 x 10 ⁶ > 1 x 10 ¹¹		10 mbar 10 mbar >4 mbar 8.5 mbar		
(**) Foreline Tolerance defined as the pressure at which the turbopump still produces a compression of 100 and estimated in water cooling mode					
Base pressure with recomm. forepump	< 1 x 10 ⁻¹⁰ mbar (< 1 x 10 ⁻¹⁰ Torr)				
Inlet flange	ISO 200K, ISO 200F, ISO 250K, ISO 250F, CFF 10"				
Foreline flange	NW25 or NW40				
Rotational speed	Auto setting from 40'800 RPM to 49'500 RPM				
Start-up time	< 5 minutes				

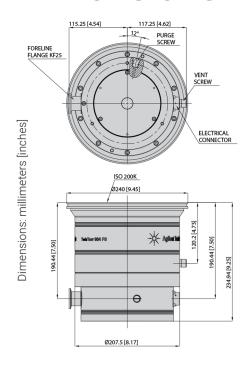
Technical Specifications					
Recommended	Agilent DS302 Rotary Vane Pump				
forepump	Agilent IDP-10 Dry Scroll Pump Agilent IDP-15 Dry Scroll Pump				
Operating position					
	Any				
Oper. ambient temp.	+5 °C to +35 °C				
Rel. humidity of air	0 to 90% (not condensing)				
Bakeout temp.	ISO pump: 80°C at inlet flange CFF pump: 120°C at inlet flange				
Lubricant	Permanent lubrication				
Cooling requirements					
Air cooling	Air temperature from +5°C to 35°C				
Water cooling	Water temperature from +15°C to +25°C Water flow min. 100L/h				
Noise Pressure					
Level	43dB(A)				
(at 1m at full speed)					
Storage temp.	-40 °C to +70 °C				
Max altitude	3000 m				
	ISO200K	20.7 kg (45.5)			
	ISO200F	23.6 kg (51.9)			
Weight kg (lbs)	ISO250K ISO250F	23.3 kg (51.2)			
	CFF 10"	27.6 kg (60.9) 22.1 kg (48.6)			
		22.1 kg (46.0)			
Conformity to norms					
EMC (Control Units)		61326-1			
Safety (CE/CSA)		61010-1			
Machinery Directive		DIR 2006/42/CE			
Low Voltage Directiv	e	DIR 2014/35/EU			
EMC Directive (Contr	ol Units)	DIR 2014/30/EU			
ROHS		DIR 2011/65/EU			

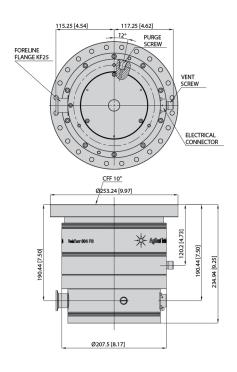
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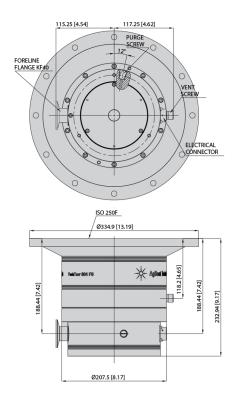
Pumping Curves



Dimensions







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Features & Benefits

- reduced cost of ownership and system down-time
- · highest pumping speed for gases
- · compact, reliable, energy efficient
- · plug & play
- floating suspension
- operation in any position
- quiet and low vibration
- · oil free, permanent lubrication
- ceramic ball bearings
- suitable for high gas load applications
- thermal efficiency & temperature control



Applications

• academic research • surface analysis • electron microscopes • analytical instruments · industrial · semiconductor · mass spectrometry