



Agilent TwisTorr 304FS

Technical Specifications

| | | |
|---|---|-------------------------------|
| Pumping speed | ISO 100 / CF 6" | ISO 160 / CF 8" |
| N ₂ | 250 l/s | 250 l/s |
| He | 255 l/s | 255 l/s |
| H ₂ | 220 l/s | 220 l/s |
| Ar | 250 l/s | 250 l/s |
| Gas throughput at full rotational speed (with recommended forepump) | Ambient Temp. (25°C) | Water Temp. (25°C, 50 l/h) |
| N ₂ | 170 sccm | 170 sccm |
| Ar | 110 sccm | 110 sccm |
| Compression ratio & Foreline Tolerance | | |
| N ₂ | > 1 x 10 ¹¹ | >10 mbar |
| He | > 1 x 10 ⁹ | >10 mbar |
| H ₂ | 1.5 x 10 ⁶ | >4 mbar |
| Ar | > 1 x 10 ¹¹ | >10 mbar |
| Base pressure with recommended forepump (5 m ³ /h) | < 1 x 10 ⁻¹⁰ mbar (< 1 x 10 ⁻¹⁰ Torr) | |
| Inlet flange | CFF 8" O.D. ISO 160 CFF 6" O.D. ISO 100 | |
| Foreline flange | KF16 NW (KF25 - optional) | |
| Rotational speed | 60000 rpm (1010 Hz driving frequency) | |
| Start-up time | < 3 minutes | |
| Recommended forepump | mechanical: | Agilent DS 102 |
| | dry pump: | Agilent SH 110 |
| Operating position | Any | |
| Operating ambient temperature | +5 °C to +35 °C | |
| Relative humidity of air | 0 - 90 % (not condensing) | |
| Bakeout temperature | 80 °C at inlet flange max (ISO flange) 120 °C at inlet flange max (CFF flange) | |
| Lubricant | Permanent lubrication | |
| Cooling requirements | Forced air (5- 35 °C ambient temperature) Water (mandatory if ambient temperature > 35 °C) | |
| Coolant water | Minimum flow: 50 l/h (0.89 GPM) Temperature: +15 °C to +30 °C Pressure: 3 to 5 bar (45 to 75 psi) | |
| Noise Pressure level | < 50 dB(A) at 1 meter | |
| Storage temperature | -40° C to +70° C | |
| Max altitude | 3000 m | |
| Weight kg (lbs) | Pump ISO 100 | 5.5 kg (12.3) |
| | Pump CFF 6" | 7.5 kg (16.5) |
| | Pump ISO 160 | 5.7 kg (12.6) |
| | Pump CFF 8" | 9.7 kg (20.9) |





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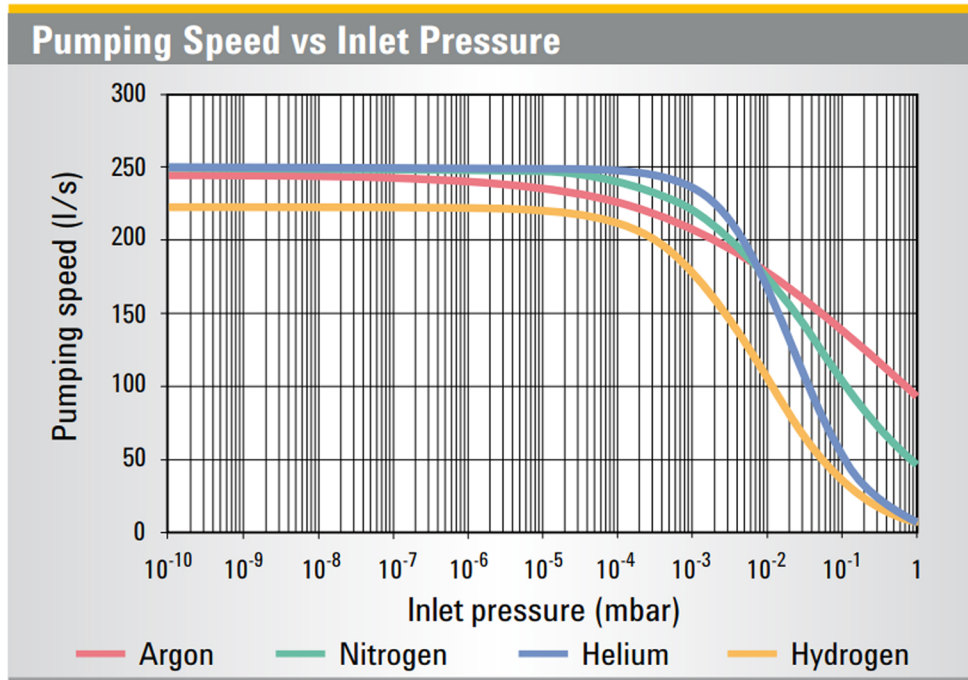
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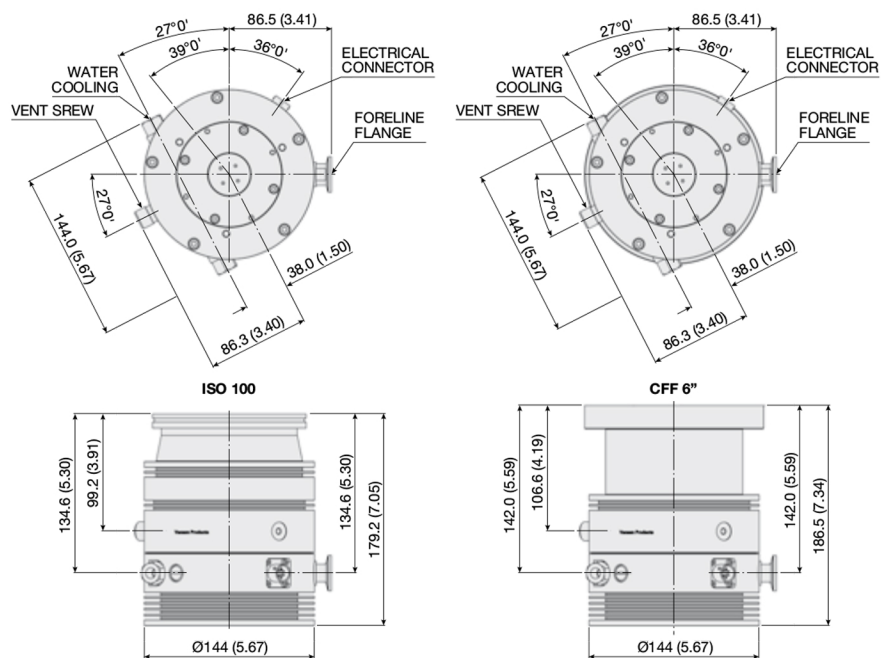
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Agilent TwisTorr 304FS Pumping Curves



Dimensions



Dimensions: millimeters (inches)



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Features & Benefits

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

Applications

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