

AGILENT TPS TURBO PUMPING SYSTEMS MODELS

Agilent TPS-compact



A portable, fully Integrated, hydrocarbon-free pumping system powered by the innovative TwisTorr 84 FS and 304 FS pumps, backed by the unique Agilent 60 l/min IDP-3 Dry Scroll, new generation primary pump: the fastest pumpdown in the market.

A cost effective pumping solution with large pressure display, Active Gauge capability, voltage 110-220 V, CE/CSA certified.

Features

- New generation TwisTorr 84 FS and 304 FS Turbomolecular Pumps
- IDP-3 Dry Scroll backing pump
- Compact, light, dry, clean and robust system
- Nominal voltage (90-240 V) - CE/CSA certified
- RS-232 or analogical communication
- Wide range vacuum gauge driving capability
- Large pressure data display
- Pressure driven set point, analog set point
- Wheels option available

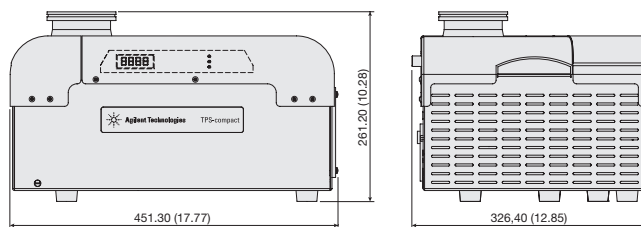
Technical Specifications

	Equipped with TwisTorr 84 FS	Equipped with TwisTorr 304 FS
Pumping speed	N ₂ : 57 l/s (ISO 63, with inlet screen)*	N ₂ : 180 l/s (with inlet screen)*
Base pressure**	1x10 ⁻⁹ mbar (CFF flanges) - 1x10 ⁻⁸ mbar (ISO flanges)	1 x 10 ⁻⁹ mbar (CFF flanges) - 1 x 10 ⁻⁸ mbar (ISO flanges)
Pumpdown time (15 lt volume)	46 sec (100 mbar); 104 sec (1 mbar); 160 sec (1x10 ⁻⁴ mbar); 210 sec (5x10 ⁻⁵ mbar); 400 sec (1.3 x 10 ⁻⁵ mbar)	80 sec (16 mbar); 110 sec (3 mbar); 155 sec (6 x 10 ⁻⁵); 200 sec (1 x 10 ⁻⁵)
Turbo pump rotational speed	80,000 RPM	60,000 RPM
Start-up time	144 sec.	150 sec.
Operating ambient temperature	5 °C to 35 °C	5 °C to 35 °C
Input voltage and frequency	115 Vac 60 Hz or 220-240 Vac 50/60 Hz	115 Vac 60 Hz or 220-240 Vac 50/60 Hz or 100 Vac 50/60 Hz
Maximum input power	260 VA	310 VA
Bakeout temperature	120 °C at inlet (CFF flanges) - 80 °C at inlet (KF/ISO flanges)	120 °C at inlet (CFF flanges) - 80 °C at inlet (ISO flanges)
Communication	RS232 - Analogical I/O	RS232 - Analogical I/O
Weight	16.7 kg (36.8 lbs)	20.1 kg (44.3 lbs)

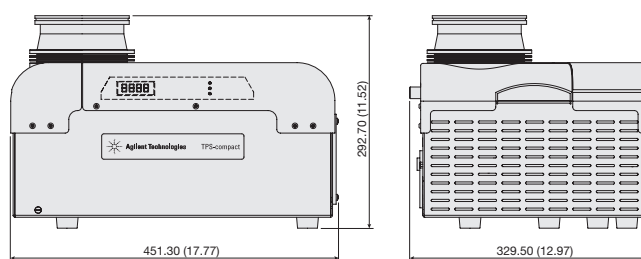
* Pump nominal speed: TwisTorr 84 FS N₂: 67 l/s; TwisTorr 304 FS N₂: 250 l/s

** According to standard DIN 28 428.

TPS-compact with
TwisTorr 84 FS – ISO 63



TPS-compact with
TwisTorr 304 FS – ISO 100

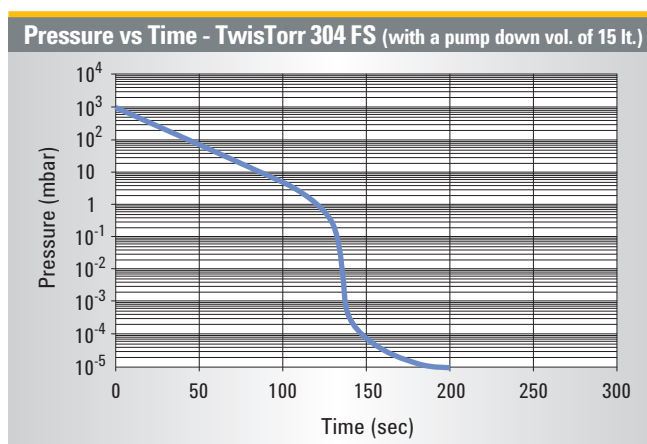
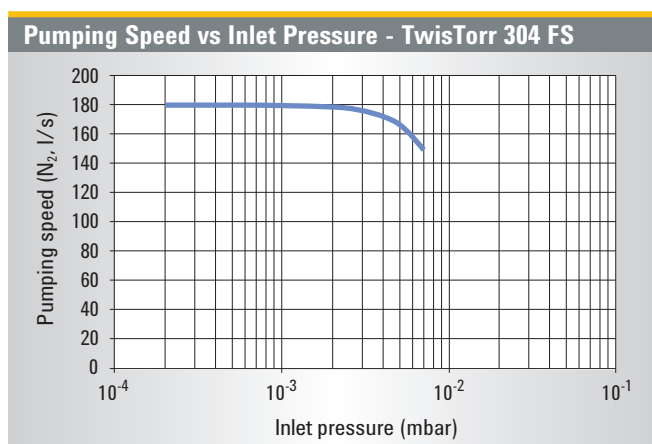
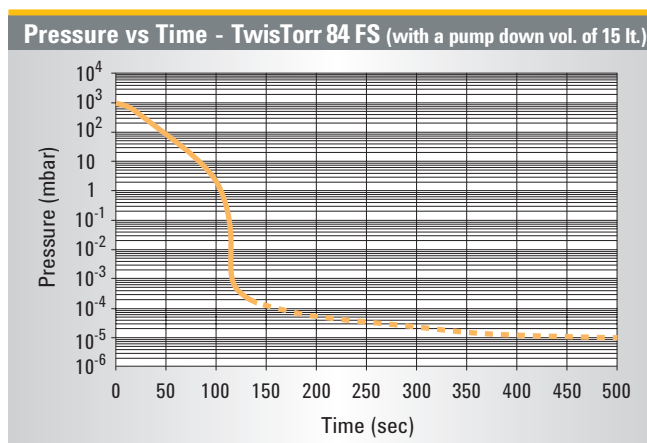
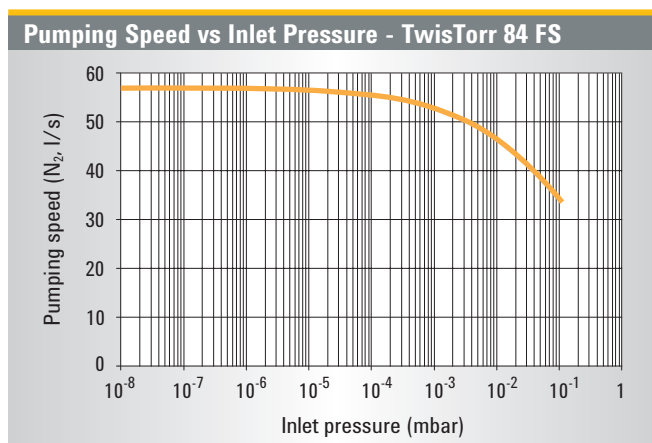


Dimensions: millimeters (inches)

Benefits

- Designed for demanding applications
- Cost-effective pumping solution
- Easy to use: plug and play system; easy PLC & PC interface
- Complies with world-wide safety standards
- Easy system pressure measurement; no external gauge reading unit needed
- Easy Tip-seal replacement (10 min)
- Excellent base pressure, down to 10⁻⁹ mbar
- Easy to be moved in small space
- Highest compression ratio for H₂/He

TPS TURBO PUMPING SYSTEMS



Ordering Information

TPS-compact TwisTorr 84 FS	KF40	CFF 2 ¼"	ISO 63	CFF 4 ½"
105 V*	X3580A#010#020#105	X3580A#010#027#105	X3580A#010#021#105	X3580A#010#022#105
120 V	X3580A#010#020#120	X3580A#010#027#120	X3580A#010#021#120	X3580A#010#022#120
220 V	X3580A#010#020#220	X3580A#010#027#220	X3580A#010#021#220	X3580A#010#022#220

Accessories

Gauge Kit**	9699190	9699199	9699192	9699193
Inlet Screen	9699309	9699328	9699300	9699300

TPS-compact TwisTorr 304 FS	ISO 100	CFF 6"	ISO 160	CFF 8"
105 V*	X3580A#011#023#105	X3580A#011#024#105	X3580A#011#025#105	X3580A#011#026#105
120 V	X3580A#011#023#120	X3580A#011#024#120	X3580A#011#025#120	X3580A#011#026#120
220 V	X3580A#011#023#220	X3580A#011#024#220	X3580A#011#025#220	X3580A#011#026#220

Accessories

Gauge Kit**	9699194	9699201	9699195	9699202
Inlet Screen	9699302	9699302	9699304	9699304

NOTE Special Vent Valve available on request

* For Japanese market

** The DIY Full Range Gauge Kit can be ordered separately, and includes Full Range Gauge FRG-700, Cable for gauge connection, Vacuum Tee and Connecting Hardware (Flanges according to the System inlet flange)

Other Accessories

Wheels accessory kit	9698233	Mains cable NEMA plug***, 3 meters	9699958
Mains cable EU plug***, 3 meters	9699957	Serial Cable and T-Plus Software	9699883

*** Power Cord to be ordered separately