



Agilent TPS Mobile

Technical Specifications

Turbomolecular Pumps - Pumping Speed*

	TwisTorr 74 FS KF 40, ISO 63, CFF 2 3/4", CFF 4 1/2"	TwisTorr 304 FS ISO 100, CFF 6", ISO 160, CFF 8"	Turbo-V 551 Navigator CFF 6", ISO 160, CFF 8"
Pumping Speed	N ₂ : 48 L/s (with inlet screen)*	N ₂ : 180 L/s (with inlet screen)*	N ₂ : 550 L/s (with inlet screen)

* Pump nominal speed: TwisTorr 74 FS N₂: 60 L/s; TwisTorr 304 FS N₂: 250 L/s.

Base Pressure *

	TwisTorr 74 FS	TwisTorr 304 FS	Turbo-V 551 Navigator
With IDP-7 dry scroll pump or DS102 rotary vane pump	< 5 x 10 ⁻¹⁰ mbar (< 3.75 x 10 ⁻¹⁰ Torr)	< 1.0 x 10 ⁻¹⁰ mbar (< 7.5 x 10 ⁻¹¹ Torr)	< 1.0 x 10 ⁻¹⁰ mbar (< 7.5 x 10 ⁻¹¹ Torr)

* According to standard DIN 28 428

Turbomolecular Pumps

Turbo Pump Model	Inlet Flange
TwisTorr 74 FS	ISO 63, KF 40*, CFF 2 3/4", CFF 4 1/2"*
TwisTorr 304 FS	ISO 100, CFF 6", ISO 160, CFF 8"*
Turbo-V 551 Navigator	CFF 6", ISO 160, CFF 8"*

*Configuration available on request

Managing Gauges

Turbo Pump	Gauge Configuration	Measurement range
TwisTorr 74 FS TwisTorr 304 FS	Turbo pump controller driving: - FRG-700 Full Range Gauge	Atmosphere to 3.8 x 10 ⁻⁹ Torr (mbar)
TwisTorr 74 FS TwisTorr 304 FS Turbo-V 551 Navigator	XGS-600 Gauge Controller driving:	
	- ConvecTorr Rough Vacuum gauge	- 1 x 10 ⁻⁴ Torr (mbar) to atmosphere
	- IMG-100 High Vacuum gauge	1 x 10 ⁻³ Torr (mbar) to 5 x 10 ⁻⁹ Torr (mbar)

Primary Pumps

Dry Scroll Pumps	Peak Pumping Speed 50 Hz
IDP-3, single phase	50 L/min - 3.0 m ³ /h - 1.8 cfm
IDP-7, single phase	90 L/min - 5.4 m ³ /h - 3.3 cfm
IDP-15, single phase	214 L/min - 12.8 m ³ /h - 7.5 cfm
TriScroll 300, single phase, with Vacuum Pump Isolation Valve (VPI)	10 L/min - 12.6 m ³ /h - 7.4 cfm
TriScroll 600, single phase, with Vacuum Pump Isolation Valve (VPI)	420 L/min - 25.2 m ³ /h - 14.8 cfm
Rotary Vane Dual Stage Pumps	Pumping Speed 50 Hz
DS 102 - 1 phase worldwide motor	5.0 m ³ /h
DS 202 - 1 phase worldwide motor	8.3 m ³ /h
DS 302 - 1 phase worldwide motor	11.6 m ³ /h
DS 402 - 1 phase worldwide motor	17.4 m ³ /h
DS 602 - 1 phase worldwide motor	25.0 m ³ /h



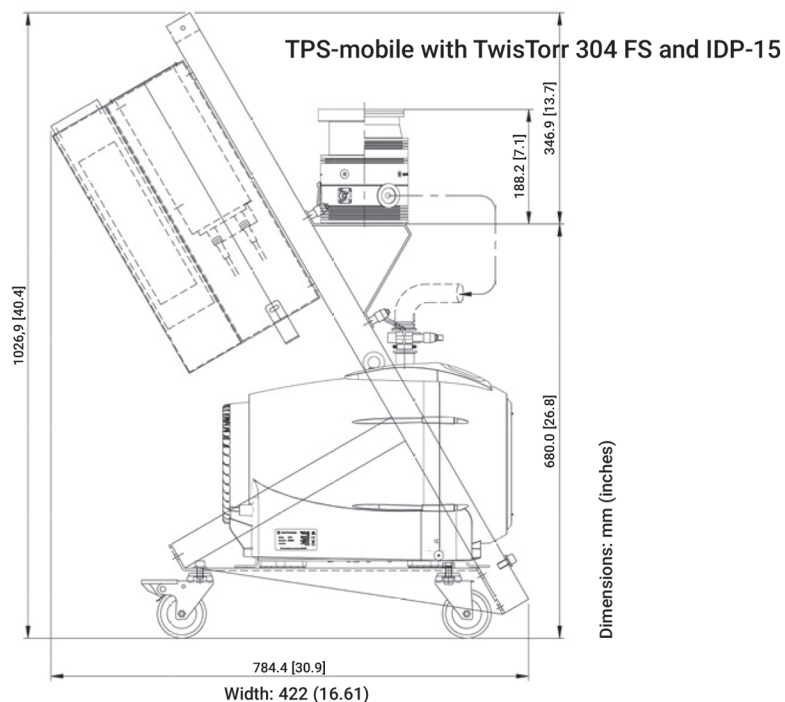


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Standard Configurations

TPS-mobile	TwisTorr 74 FS KF 40	TwisTorr 74 FS ISO 63	TwisTorr 74 FS CFF 2 3/4"	TwisTorr 74 FS CFF 4 1/2"	TwisTorr 304 FS ISO 100	TwisTorr 304 FS CFF 6"	TwisTorr 304 FS ISO 160	TwisTorr 304 FS CFF 8"	TV551 CFF 6"	TV551 ISO 160	TV551 CFF 8"
DS 102 - 120 V	•	•	•	•	•	•	•	•			
DS 102 - 220 V	•	•	•	•	•	•	•	•			
DS 202 - 120 V	•	•	•	•	•	•	•	•			
DS 202 - 220 V	•	•	•	•	•	•	•	•			
DS 302 - 120 V					•	•	•	•	•	•	•
DS 302 - 220 V					•	•	•	•	•	•	•
DS 402 - 120 V					•	•	•	•	•	•	•
DS 402 - 220 V					•	•	•	•	•	•	•
DS 602 - 120 V					•	•	•	•	•	•	•
DS 602 - 220 V					•	•	•	•	•	•	•
IDP-3 - 120 V	•	•	•	•	•	•	•	•			
IDP-3 - 220 V	•	•	•	•	•	•	•	•			
IDP-7 - 120 V	•	•	•	•	•	•	•	•			
IDP-7 - 220 V	•	•	•	•	•	•	•	•			
DP-15 - 120 V					•	•	•	•	•	•	•
IDP-15 - 220 V					•	•	•	•	•	•	•
TS 300 VPI - 120 V					•	•	•	•	•	•	•
TS 300 VPI - 220 V					•	•	•	•	•	•	•
TS 600 VPI - 120 V					•	•	•	•	•	•	•
TS 600 VPI - 220 V					•	•	•	•	•	•	•

Dimensions





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Features & Benefits

- flexible, dry, DIY solution
- oil-free solution
- easy plug and pump
- gauge reading capability
- optimized combination of turbo & backing pump
- modular design simplifies customization
- long service life and high reliability
- roll around cart
- onboard fore-vacuum safety valve
- best vacuum performance/base pressure for light gases

Recommended pumps

- TwisTorr 74FS • TwisTorr 304FS • medium turbo • IDP series scroll
- DS series rotary vane

Applications

- UHV system pumpdown • ion pump roughing • system bake-out
- lamp & tube processing • cryopump regeneration • high vacuum system operation