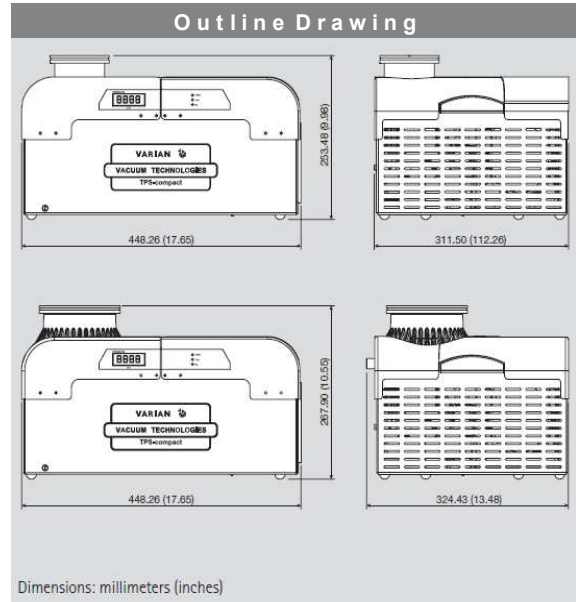


## Turbo Pump SCB-TPS-Compact Product Data Sheet



### Features

- New Generation Turbomolecular Pump Turbo-V 81-M and TV301 Navigator
- Compact, Light, Dry, Clean and Robust System
- Voltage (110-220) - CE/CSA certified
- RS-232 or Analogical Communication
- High vacuum gauge driving card
- Large pressure data display
- Pressure driven set point, Analog set point
- IDP-3 Dry Scroll backing pump
- This product can be offered with wheels

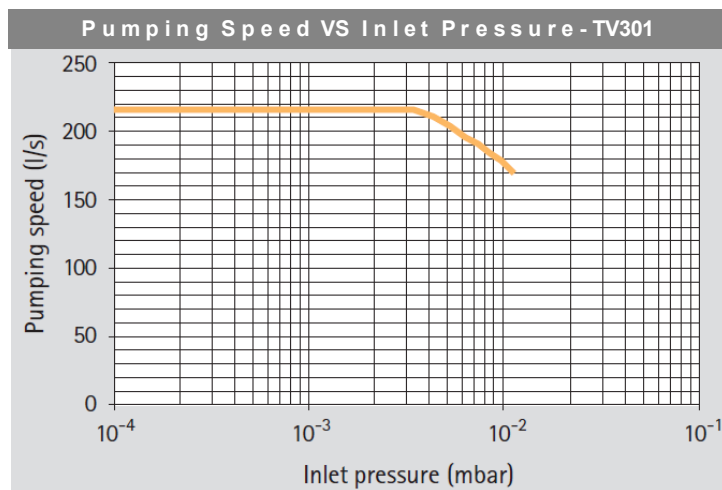
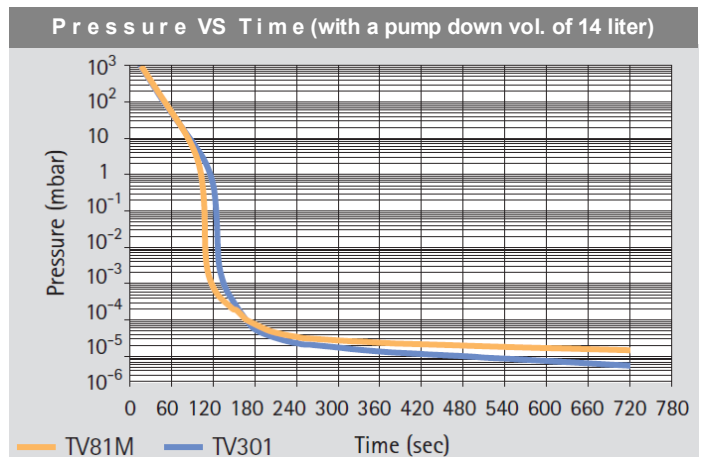
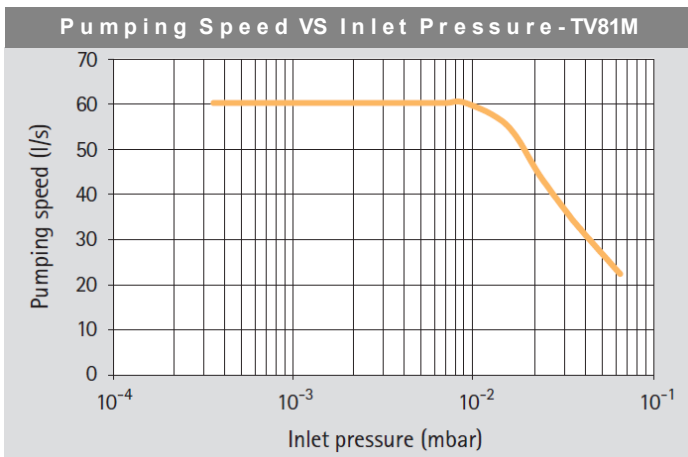
### Benefits

- Designed for demanding applications
- Cost-effective pumping solution
- Can be used world-wide
- Easy to use: plug and play system
- Complies with world-wide safety standards
- Easy system pressure measurement
- Easy Tip-seal replacement (10 min)
- Excellent base pressure up to 10<sup>-9</sup> mbar
- Easy to be moved in small space
- Highest compression ratio for H2/He

### Technical Specifications

	Equipped with TV81M	Equipped with TV301
Pumping Speed	N <sub>2</sub> : 60 l/s	N <sub>2</sub> : 215 l/s
Base pressure	1 x 10 <sup>-9</sup> mbar(*) [Cff flanges] - 1 x 10 <sup>-9</sup> mbar [ISO flanges]	1 x 10 <sup>-9</sup> mbar(*) [Cff flanges] - 1 x 10 <sup>-9</sup> mbar [ISO flanges]
Pumpdown time (14 liter volume)	80 sec (100 mbar); 110 sec (1 mbar) 155 sec (1 <sup>-4</sup> mbar); 400 sec (1 <sup>-5</sup> mbar)	80 sec (100 mbar); 110 sec (1 mbar) 155 sec (1 <sup>-4</sup> mbar); 400 sec (1 <sup>-5</sup> mbar)
Turbo pump rotational speed	80,000 RPM	56,000 RPM
Start-up time	15 sec.	15 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
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 [Kf/ISO flanges]
Communication	RS232 - Analogical I/O	RS232 - Analogical I/O
Weight	16.7kg (36.8 lbs)	19.1kg (42.1 lbs)

\*NOTE: According to PNEUROP 5608



## Applications

- **Electron Microscopy and Mass Spectrometry**

The new TPS-compact Integrated Turbo Pumping System is the perfect tool to keep the column of an electron microscope under vacuum while performing maintenance or repair on the device.

The oil-free nature of the system guarantees freedom from contamination of the column.

- **Industrial Applications**

The TPS-compact Turbo Pumping System can create and maintain the required vacuum level in separate chamber of an industrial system during maintenance or repair.

- **Semiconductor Manufacturing**

The TPS-compact is particularly well suited for evacuating load-lock chambers. Its oil-free design ensures the purity of the process.

The TPS-compact may be mounted in any position, making it suitable for most system configurations.

- **High Energy Physics and Research Centers**

This new Turbo Pumping System may be used in any Laboratory where there is a need to create high vacuum and ultra high vacuum in chambers quickly and easily.

The new generation electronics and the pressure display ensure the accuracy of the process.