



Rotary Piston Vacuum Pumps

Heavy-Duty Multistage Pumps for Rugged
Industrial Applications

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As global competition intensifies today, the demand for advanced process machinery that ensures peak performance and unwavering reliability has never been more critical. Whether you require low-pressure operation, high gas throughput, or expanded capacity for your current setup, Toshniwal Vacuum has the proven expertise to fulfill your diverse vacuum pumping needs.

Leveraging decades of engineering know-how and a robust sales and service network, Toshniwal Vacuum enhances your operations with real value. Our applications engineers are ready to advise on individual pumps or components and design complete, bespoke vacuum systems tailored precisely to your requirements.

Every design consideration, feature and detail is thoroughly engineered to maximize uptime and extend operating life. Below are just a few features that testify to the integrity of these rugged multistage vacuum pumps.

- Efficient, time proven design to deliver ease of maintenance
- Low 500 rpm operation for longest pump life cycle
- Low ultimate blank-off - pressure down to $< 10^{-2}$ Torr
- Robust cast and ductile iron construction

Technical Data For TPP Series

Pump		TPP85	TPP250	TPP500
Displacement (swept volume)	m ³ h ⁻¹ / ft ³ min ⁻¹	85/50	250/150	500/300
Ultimate Pressure	Mbar	$<1.3 \times 10^{-2}$	$<1.3 \times 10^{-2}$	$<1.3 \times 10^{-2}$
Without gas ballast	Torr	$<1 \times 10^{-2}$	$<1 \times 10^{-2}$	$<1 \times 10^{-2}$
With gas ballast	Mbar	6.6×10^{-1}	2.6×10^{-1}	2.6×10^{-1}
	Torr	5×10^{-1}	2×10^{-1}	2×10^{-1}
Motor size	kw / hp	1.5/2	5.5/7.5	7.5/10
Inlet connection	Inch	1 1/2 inch ASA/ ANSI Flange	3 inch ASA/ ANSI Flange	4 inch ASA/ ANSI Flange
Exhaust connection	Inch	1 1/2 inch NPT	2 inch ASA / ANSI Flange or 3 inch NPT	3 inch ASA / ANSI Flange or 3 inch NPT
Cooling medium		Air Cooled	Water	Water
Water inlet connection	Inch	N/a	1/2 inch NPT	1/2 inch NPT
Water outlet connection	Inch	N/a	1/2 inch NPT	1/2 inch NPT
Water vapor pumping rate	Kgh ⁻¹ / lbh ⁻¹	1.81/4	5/11	10.45/23
Oil capacity	Liter	2	15	45
Noise level	DbA	<67	<83	<83
Dimensios	Mm	421 × 486 × 813	667 × 610 × 1105	1022 × 661 × 1314
	Inch	19 1/8 × 20-1/8 × 32	26 1/4 × 24 × 43 1/2	40 1/4 × 25 5/8 × 51 3/4
Weight	Kg / -lbs	143/315	431/950	794/1750

* Specifications are subjected to changes without notice, Ultimate Pressure Measured On Meleod Gauge

* Operating voltage 415v/50Hz, 3%

Accessories:

- Water cooled condensor
- Filters for airborne liquid or resin
- Vacuum Hose
- Electro pneumatic isolation cum air admittance valve

