

PISTON VACUUM PUMP

In today's globally competitive environment, the need for manufacturing process equipment that delivers maximum performance and reliability is greater than ever. Whether you operate at low pressure, handle large gas loads, or simply need increased capacity for your existing system, Toshniwal can help meet your pumping requirements

By combining over decades of technical experience with a comprehensive sales and service network, Toshniwal adds value to your process. Our applications specialists can offer advice on a single pump or component through to a complete pumping system, custom tailored to your specifications.

Rugged, Reliable Operation

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

Toshniwal Piston Vacuum Pump provide many advantages to the user:

Applications

- ◆ Automotive
- ◆ Metallurgy
- ◆ Transformer drying
- ◆ Heat treatment
- ◆ PET processing
- ◆ General applications
- ◆ Vacuum coatings
- ◆ Chemical processing
- ◆ Leak detection
- ◆ Pharmaceuticals



TPP series Overview

The rotary piston pump sets the standard for performance and reliability as the industry most efficient, space-saving design. The rotary piston pump has been improved, upgraded, and fine-tuned to deliver even better dependability and productivity combined with minimal maintenance and process downtime.

*Toshniwal
has solutions
for all your
Vacuum needs*



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 without gas ballast	mbar Torr	<1.3x10 ⁻² <1x10 ⁻²	<1.3 x 10 ⁻² <1.0 x 10 ⁻²	<1.3 x 10 ⁻² <1.0 x 10 ⁻²
with gas ballast	mbar Torr	6.6x10 ⁻¹ 5x10 ⁻¹	2.6x10 ⁻¹ 2x10 ⁻¹	2.6 x 10 ⁻¹ 2 x 10 ⁻¹
Motor size (TEFC)	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	Kg h ⁻¹ / lb h ⁻¹	1.81/4	5/11	10.45/23
Oil capacity	liter	2	15	45
Noise level	db(A)	<67	<83	<83
Dimensions L x W x H	mm	421 x 486 x 813	667 x 610 x 1105	1022 x 661 x 1314
	inch	19 1/8 x 20 1/8 x 32	26 1/4 x 24 x 43 1/2	40 1/4 x 25 5/8 x 51 3/4
Weight	Kg / lbs	143 / 315	431/950	794/1750

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

*Operating voltage 415v/50Hz, 3ø

Accessories

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

Also available from TOSHNIWAL VACUUM

Centralised vacuum systems, Oil lubricated vacuum pumps, Oil immersed vacuum pumps, Roots pumps, Vacuum pumping systems, Vacuum impregnation plants, Epoxy resin mixing & Casting plants, Vacuum de-hydration cum gas charging unit, Oil less vacuum pump.