

# Multi Vane

*Toshniwal*

## Rotary Vane Vacuum Pumps

### TPN Multivane Vacuum Pumps:

Steps ahead in design...its unique...

Toshniwal Multivane vacuum pumps featuring solutions, the result of constant innovation through research and development.

Rotary Multivane vacuum pumps are easy to install (no foundations needed), they are turnkey units for full automatic operation, and represent the simplest and most economic system for vacuum plants. The vacuum pump, complying with international and reliable standards, thanks to their safety, environmental protection, low noise level, compactness, high performances, reliability, efficiency and low Life Cycle Cost.

The specific design of the Rotary Multivane principles grants excellent performance and leads to the best results in the category of air cooled single-stage rotary vanes vacuum pumps.

Easy access to all changeable parts allows for simplified maintenance with faster intervention times at lower cost.

The active sealing principle ensures that minimal residual pressure values are achieved (down to 1/0.5 mbar) and with constant performance within 50-1000 mbar absolute pressure range.

The model feature minimized footprint with exclusive vertical layout, which additionally enhances the oil separation efficiency.

### TPN Multivane Vacuum Pumps Features:

- Air cooling features a duly oversized Aluminium radiator and a temperature controlled fan, eliminates problems of cooling water.
- The closed loop lubrication circuit ensures negligible oil consumption.
- Single-stage pumping speed range, the high-capacity model is a large air cooled single-stage rotary vane pump.
- 1 / 0.5 mbar residual absolute pressure with performance curves constant up to 95 % the best achievable result by an industrial single vacuum pump.
- Reduced electric energy consumption when compared to other pumps with same nominal flow rate.
- "Plug and play" pumps, install easily and directly, no need of foundations.



#### APPLICATIONS:

CENTRALISED VACUUM SYSTEM

PICK AND PLACE

DEGASSING

PACKAGING

DRYING

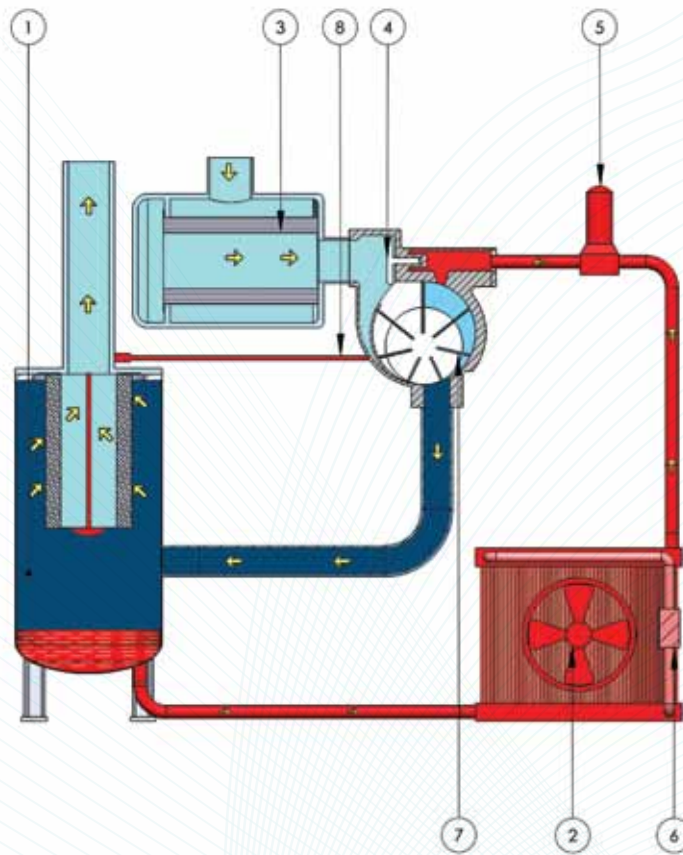
# Technical Data and Installation

TPN4

**HIGH WATER VAPOUR TOLERANCE**  
**COMPACT FOOT PRINT**  
**MULTIVANE DESIGN**  
**24x7**

Capacity	m <sup>3</sup> /h	250
Ultimate Pressure	mbar	0.5
Residual Pressure	mbar(a)	1/0.5
Pump Motor	kW	5.5/50Hz
Rotation speed	rpm	1450
Fan Motor	kW	0.11
Water Vapour handling capacity	Kg/hr	18.5
Water Vapour tolerance	mbar	140

- 1.Oil separator
  - 2.Oil cooler
  - 3.Inlet filter
  - 4.Non return value
  - 5.Oil filter
  - 6.Thermostatic valve
  - 7.Rotor
  - 8.Oil recovery
- Air / oil mixture
  - oil
  - Air



\*Subjects to improvements and changes

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