



Since 1923, Pneumofore has designed vacuum pumps featuring original solutions, the result of constant efforts in research and development.

The present UV rotary vane vacuum pumps are easy to install, operate fully automatically, and represent the simplest and cheapest system for vacuum plants. Our pumps achieve a high degree of vacuum through a wide pressure range of practically constant flow. This allows performances equal to larger size pumps, with considerable energy saving. The UV series vacuum pumps, complying with international regulations, are valued in many industrial applications thanks to their low life cycle cost, safety, environmental compliance, low noise level, compactness, high performances, design simplicity, reliability and durable efficiency.

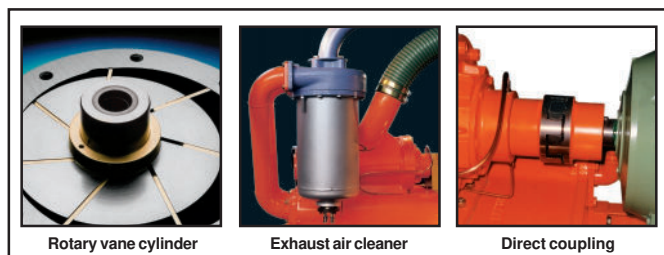
UV series most common applications:

- food processing
- packaging
- material handling
- plastic heat molding
- bricks production
- degassing
- polymers production
- aluminum molding
- glass molding
- printing and paper

Pneumofore technicians help customers design the most suitable vacuum system for any application and assist them during regular operation as well as long-term maintenance.



UV16 new vertical layout



Rotary vane cylinder

Exhaust air cleaner

Direct coupling

		UV6	UV16	UV30
Theoretical capacity	m ³ /h	430	960	1730
Maximum attainable vacuum	%	99,8	99,8	99,8
Residual pressure	mbar	2	2	2
Pump motor	kW	11	22	55
Power consumption	kW	8	20	41
Rotation speed	rpm	1450	1450	1450
Fan motor	kW	0,18	0,45	0,55
Suction hose	DN	100	125	150
Delivery hose	DN	100	100	100

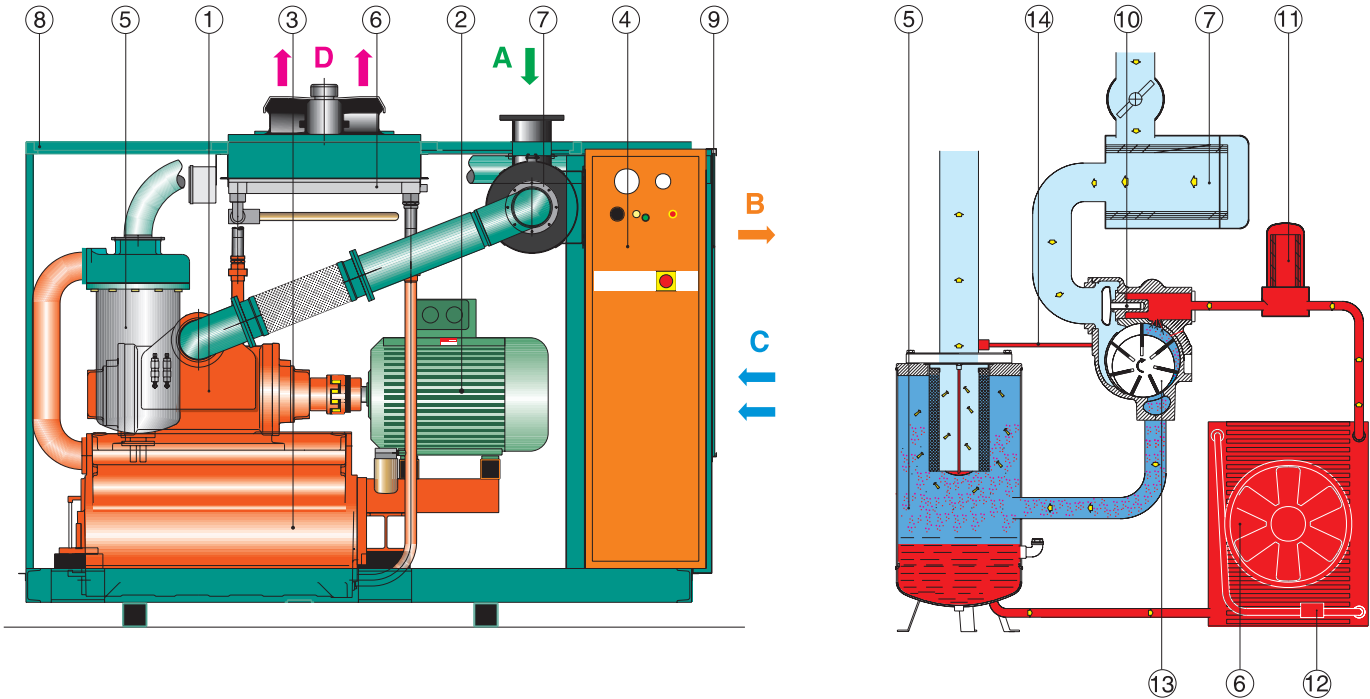
Main features

- **air cooling** features an aluminum radiator and a temperature controlled fan
- **operation without processing or cooling water** avoids problems related to limestone, ambient temperature and unstable vacuum degree
- **the closed-loop lubrication circuit** assures negligible oil consumption
- **single stage suction volumes** from 428 m³/h to 1800 m³/h (highest capacity model UV50 available soon)
- **99.8% maximum vacuum degree** (2 mbar residual absolute pressure) with performance curves constant up to 90%: the best achievable result by a single stage vacuum pump
- **special aluminum alloy vanes** provide active sealing according to the traditional Pneumofore feature and guarantee a stable performance even after years of operation, avoiding losses of efficiency and minimizing cost of operation maintenance
- **reduced electric energy consumption** when compared to liquid ring pumps with same nominal flow rate
- **"plug and play" pumps**, install easily and directly in the vacuum plant.

Components

- **intake air filter** with polyester cartridge (3 µm)
- **oil filter cartridge** for lubrication circuit
- **oil separator** and oil recovery for clean oil-free air delivery (1 mg/m³ residual oil only)
- **cylinder-integrated non return valve** avoids air and oil backflow
- **direct coupling** between cylinder and motor
- **limited footprint** - soundproof [75 dB(A)] - cabin, no foundations required
- **fully automatic operation**: oil temperature control, auxiliary control switches, safety vacuum gauge, system alarms and motorized suction valve (optional)
- **control panel** with vacuum gauge, oil separator cartridge pressure drop indicator, hour meter, active circuits control warning light, manual security button and key starter
- **very low maintenance cost** thanks to design simplicity and to few moving parts subject to wear
- **vertical layout** (for UV6 and UV16) for space economy
- **more models** to complete the range coming soon: UV11, UV21 and UV50.

UV Series Rotary Vane Vacuum Pumps



1. Cylinder block

2. Electric motor

3. Cast iron oil tank

4. Control panel

5. Oil separator

6. Oil radiator and fan

7. Air intake filter
8. Soundproof cabin

9. Cooling inlet air filter

10. Non return valve

11. Oil filter

12. Thermostatic valve

13. Rotor

14. Oil recovery
- A: Air intake

B: Disoiled exhaust

C: Cooling air inlet

D: Cooling air outlet

Air/oil mix circuit

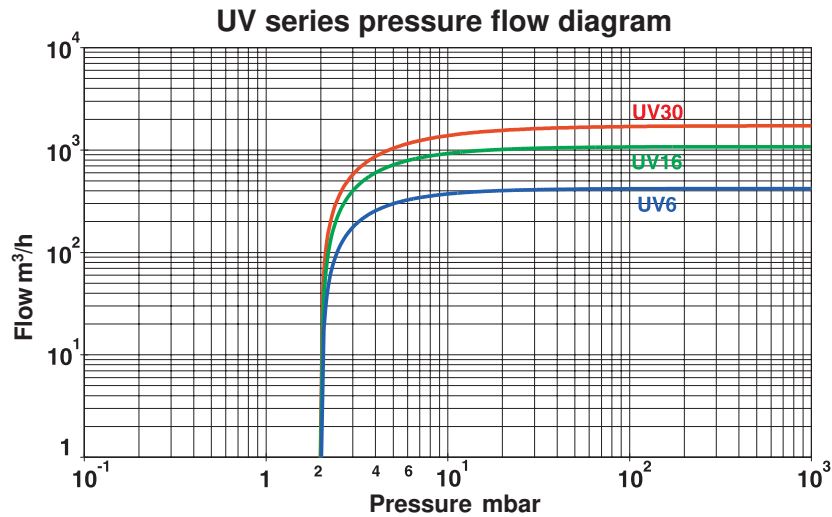
Oil circuit

Air circuit



UV Series Dimensions

		UV30	UV16	UV6
Length	mm	2900	1385	1385
Width	mm	1380	1280	1280
Height	mm	2250	2185	2185
Weight	kg	2300	1200	1000



Pneumofore has the objective of constantly improving its products and thus reserves the right to make modifications to the technical data without giving any previous notice.
What indicated in this infosheet doesn't mean any kind of guarantee extension.

