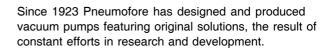
# Pneumofore

# **UV** Series

## Rotary Vane Vacuum Pumps



The current UV rotary vane vacuum pumps are easy to install, operate fully automatically, and represent the simplest and most inexpensive 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 savings. The UV series vacuum pumps, complying with most 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 durability.



#### **Main Features**

- Air cooling through an aluminum radiator and a temperature controlled fan.
- Operation without cooling water avoids problems related to limestone, ambient temperature and unstable vacuum
- "Closed-loop" lubrication circuit ensures negligible coolant consumption.
- Single-stage suction volumes from 250 m³/h to 3240 m³/h
- 99,95% maximum vacuum degree (0,5 mbar(a)) with performance curves constant up to 95%: 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 efficiency loss and minimizing cost of operation and maintenance.
- Reduced electric energy consumption when compared to liquid ring pumps with same nominal capacity.
- "Plug and play" pumps, easy to install and integrate. Variable speed option for operation 35 to 60 Hz and constant flow and/or vacuum level.

#### Components

- Intake air filter with polyester cartridge (3 µm).
- Coolant filter cartridge for lubrication circuit.
- Coolant separator and coolant recovery for air delivery. No coolant vapors.
- Cylinder-integrated non return valve avoids air and coolant backflow.
- **Direct coupling** between cylinder and electric motor.
- Limited footprint soundproof [75 dB(A)] cabin, no foundations required.
- Fully automatic operation: coolant temperature control, auxiliary control switches, safety vacuum gauge, system alarms and motorized suction valve.
- Control panel with vacuum gauge, coolant 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 UV4, UV8 and UV16) for space economy.
- **CE marking** as per European Safety Regulation.

#### **Applications**

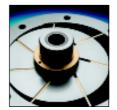
- · food processing
- packaging
- material handling
- plastic heat moulding
- bricks production
- degassing
- polymers production
- aluminum moulding
- glass moulding
- printing and paper

Technical data		UV4		UV8		UV16		UV30		UV50	
		50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz	50 Hz	60 Hz
Capacity	m³/h	250	300	462	554	971	1165	1775	2130	2700	3240
Maximum vacuum	%	99,95									
Minimum pressure	mbar(a)	0,5									
Pump motor	kW	5,5	6,6	11	13,5	22	26	45	55	75	90
Rotation speed	rpm	1450	1740	1460	1750	1460	1750	1470	1765	1475	1770
Fan motor	kW	0,68	0,82	0,1	0,12	0,37	0,45	0,75	0,9	1	1,2
Intake connection	DN	2½" BSP		4" BSP		125		150		200	
Discharge connection	_ DIN	2" BSP		3" BSP						150	



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

UV16 vertical layout



Rotary vane cylinder

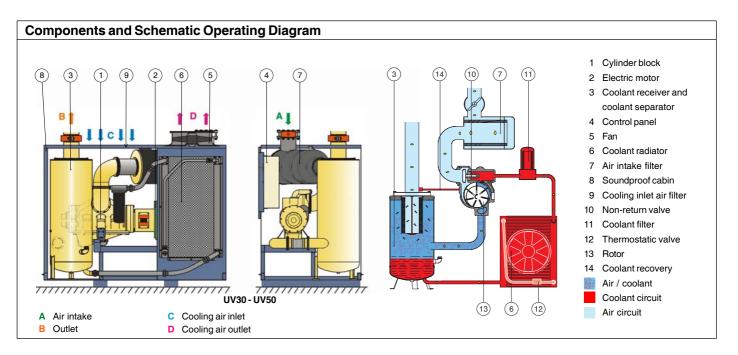


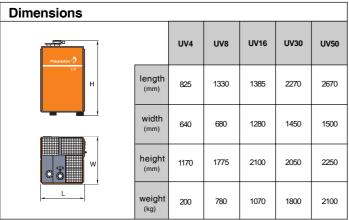


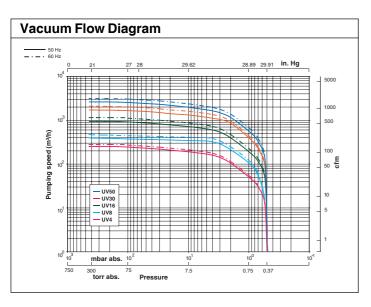
Direct coupling

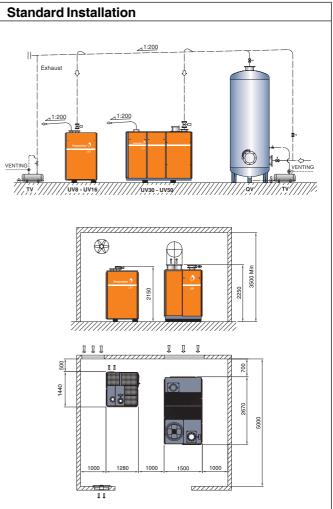
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