



UV50

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

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 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.

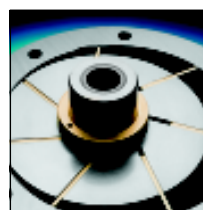
Main Features	Components
<ul style="list-style-type: none"> • Air cooling through an aluminum radiator and a temperature controlled fan. • Operation without cooling water avoids problems related to limestone, ambient temperature and unstable vacuum degree. • "Closed-loop" lubrication circuit ensures negligible oil consumption. • Single-stage suction volumes from 462 m³/h to 3240 m³/h • 99.95% maximum vacuum degree (0.5 mbar residual absolute pressure) 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. 	<ul style="list-style-type: none"> • 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. No oil vapors. • Cylinder-integrated non return valve avoids air and oil backflow. • Direct coupling between cylinder and electric 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. • 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 UV8 ,UV16 and UV24) for space economy. • CE marking as per European Safety Regulation.

<div>Applications</div> <ul style="list-style-type: none">• food processing• packaging• material handling• plastic heat moulding• bricks production• degassing• polymers production• aluminum moulding• glass moulding• printing and paper	Technical data		UV8		UV16		UV24		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	462	554	971	1165	1380	1656	1775	2130	2700	3240
	Maximum vacuum	%	99,95		99,95		99,95		99,95		99,95	
	Residual pressure	mbar	1 ÷ 0,5		1 ÷ 0,5		1 ÷ 0,5		1 ÷ 0,5		1 ÷ 0,5	
	Pump motor	kW	11	13,2	22	26,5	30	36	45	54	75	90
	Rotation speed	rpm	1440	1752	1460	1752	1465	1758	1470	1770	1470	1770
	Fan motor	kW	0,25	0,3	0,37	0,45	0,45	0,54	0,45	0,54	0,6	0,72
	Intake connection	DN	100		125		125		150		200	
	Exhaust connection	DN	100		125		125		150		200	



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

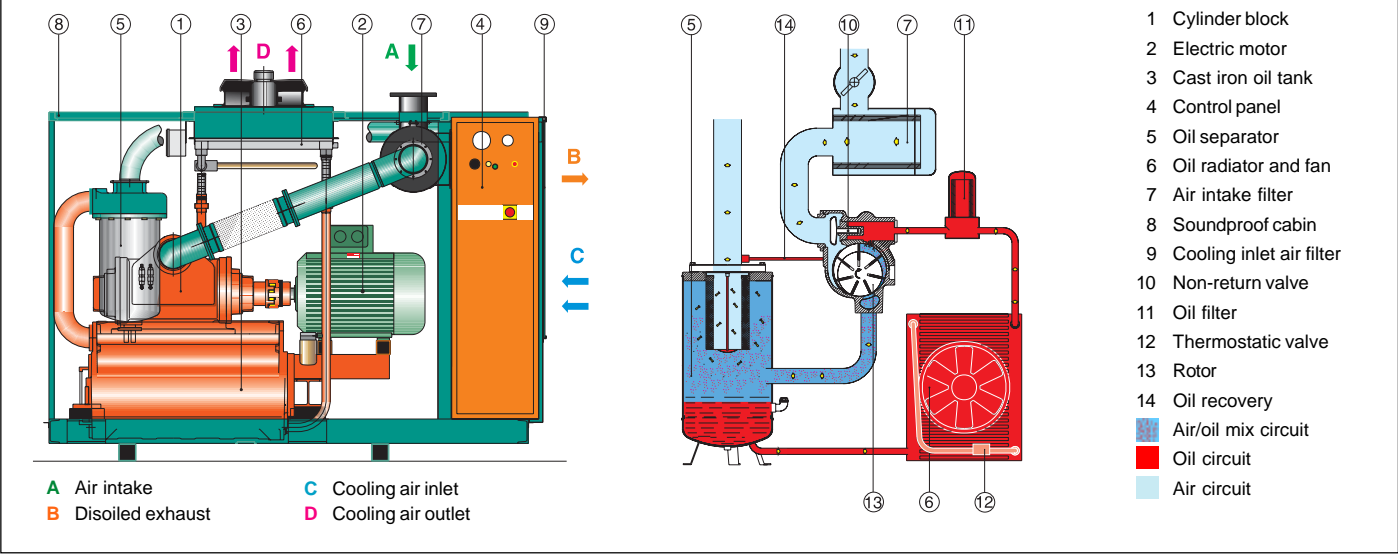


Exhaust air cleaner



Direct coupling

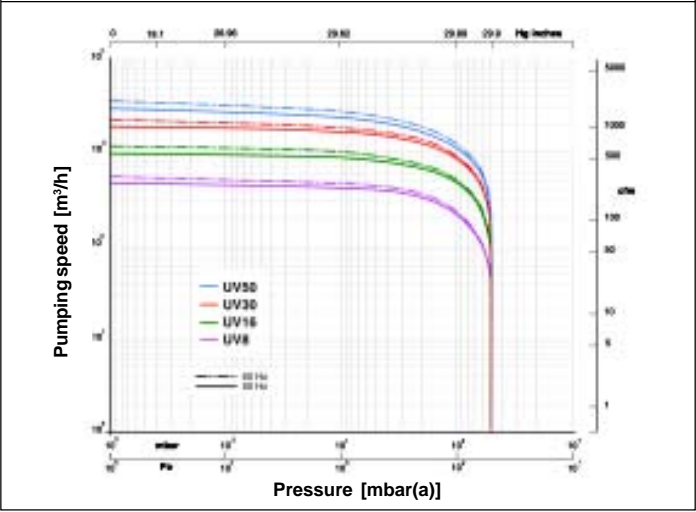
Components and Schematic Operating Diagram



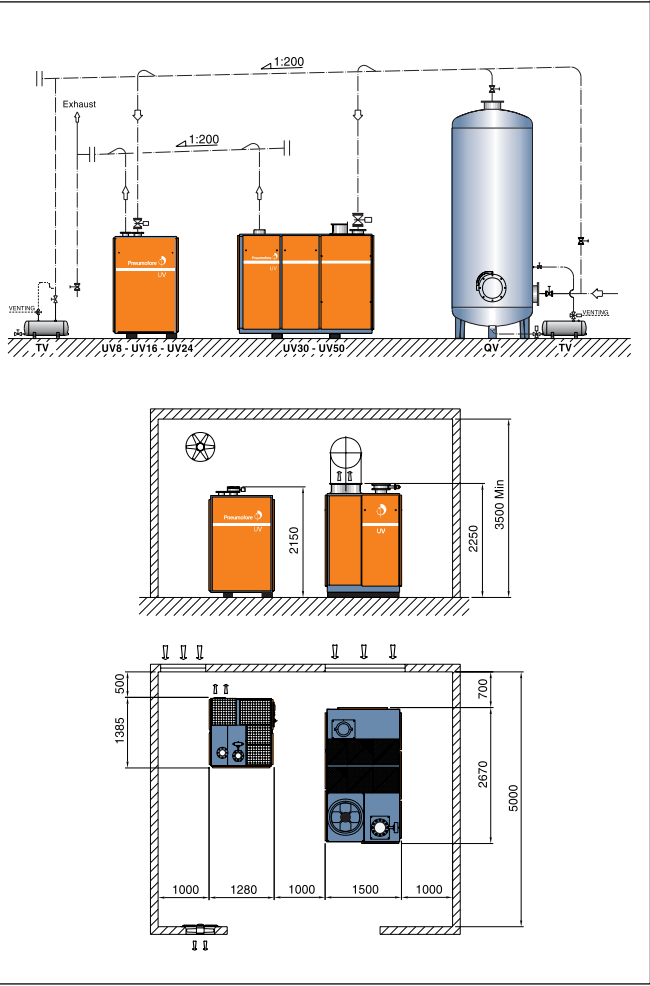
Dimensions

		UV8	UV16	UV24	UV30	UV50
	length mm	1385	1385	1385	2670	2670
	width mm	1280	1280	1280	1500	1500
	height mm	2150	2150	2150	2150	2250
	weight kg	860	1070	1250	1800	2100

Vacuum Flow Diagram



Standard Installation



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