



Company

For 60 years PVR has been a leader providing high quality and reliable vacuum pumps. PVR means primarily trusted and advanced technologies, but also sustainable development for the stakeholders, environmental protection and focus on energy saving. The experience acquired during these years of activities, allows PVR to offer products and services that are always reliable and innovative.



Machining Division

With a view to verticalization of its processes and increased capacity to provide more services to customers, PVR has had a specialized Machining Division for brass, steel, cast iron, stainless steel, and aluminum components since 2023.

Professionalism, experience, and quality characterise PVR Machining Division in the machining of numerous parts for vacuum pumps and components in the industrial, automotive, petrochemical, hydraulic, and electrical sectors.



Service

PVR guarantees a qualified advice for every inquiry thanks to its skilled technical/sales office that supports every project. The Service Department assists and advises our customers with scheduled maintenance, qualified overhauls and spare parts ready for delivery.

PVR Srl
HEADQUARTERS:

Via Santa Vecchia, 107 - 23868 Valmadrera (LC), Italy

+39 0341 1918 51

sales@pvr.it

www.pvr.it

SERVICE:

+39 339 1495 976

service@pvr.it

LOCAL UNIT:

Via IV Novembre, 104F
23868 Valmadrera (LC), Italy



MACHINING DIVISION:

Via Grandi, 12 Loc. Malpensata
26866 Sant'Angelo Lodigiano (LO), Italy

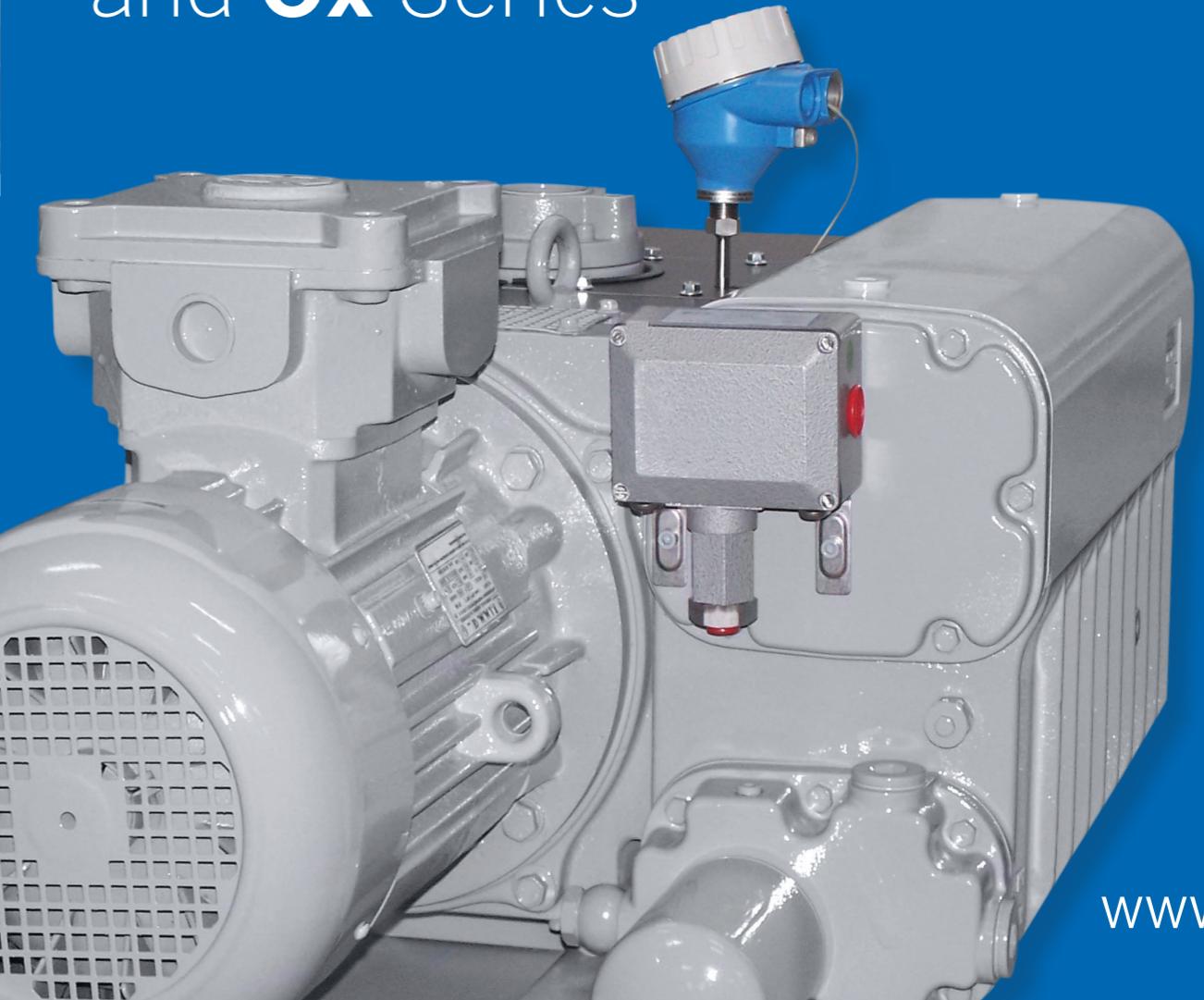
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Provide trusted & advanced technologies



Oil Lubricated Rotary Vane
Vacuum Pumps **Ex-ATEX**
and **Ox** Series



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Ex-ATEX Series

Oil lubricated vane vacuum pumps for ATEX environment

PVR has developed a range of vacuum pumps meeting the 2014/34 EU standards, certified for category 2 suitable for zone 1 inside/outside and temperature class T3 (200 °C), in answer to the frequent requests for pumps capable of operating in hazardous environments.

Applications

Oil decontamination
Chemical processes
Degassing materials
Varnish mixers
Drying medicinal products

Pneumatic conveying plants
Solvent recovery systems
Distillation systems
Drying transformer systems
Motor/transformer impregnation process

Autoclaves
Leak detectors
Laboratories
Water and soil remediation
Central vacuum systems

		EU 45 Ex	EU 65 Ex	EU 105 Ex	EU 160 Ex	EU 300 Ex	EU 650 Ex
Nominal pumping speed	50 Hz	48	69	105	152	300	660
	60 Hz	58	83	126	182	360	790
Ultimate pressure (abs.)	EU	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5
	EU/B	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	
Water vapour tolerance	mbar	50 Hz	30	30	30	30	30
Water vapour pumping capacity	50 Hz	1	1,4	2,2	3	5	15
	60 Hz	1,3	2	3	4	7	22,5
Noise level	dB(A)	50 Hz	68	69	67	71	73
		60 Hz	69	70	69	72	76
Motor power	kW	50 Hz ~ 3	1,1	1,5	3	4	7,5
		60 Hz ~ 3	1,7	2,5	3,5	4,6	18,5
Motor speed	rpm	50 Hz	1500	1500	1500	1500	1000
		60 Hz	1800	1800	1800	1800	1200
Dimensions	L x B x H	50 Hz	556x340x284	601x340x284	735x405x334	805x436x348	979x551x436
		60 Hz	581x340x284	641x340x284	735x405x334	814x436x348	1019x551x436
Total weight	kg	50 Hz ~ 3	52	60	82	104	188
		60 Hz ~ 3	54	65	86	110	192



EU 300 Ox

Ox vacuum pumps

The pump version for Oxygen has been designed for pumping gas with high content of oxygen in a percentage higher than 21%. A special PFPE-based lubricant must be used, which does not degrade and ensures optimal pump operation.

		PVL 15 Ox	EU 45 Ox	EU 65 Ox	EU 105 Ox	EU 160 Ox	EU 205 Ox	EU 300 Ox
Nominal pumping speed	50 Hz	18	48	69	105	152	207	300
	60 Hz	21	58	83	126	182	248	360
Ultimate pressure (abs.)	mbar	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5
Motor power	kW	50 Hz	0,75	1,5	2,2	3	4	5,5
		60 Hz						7,5

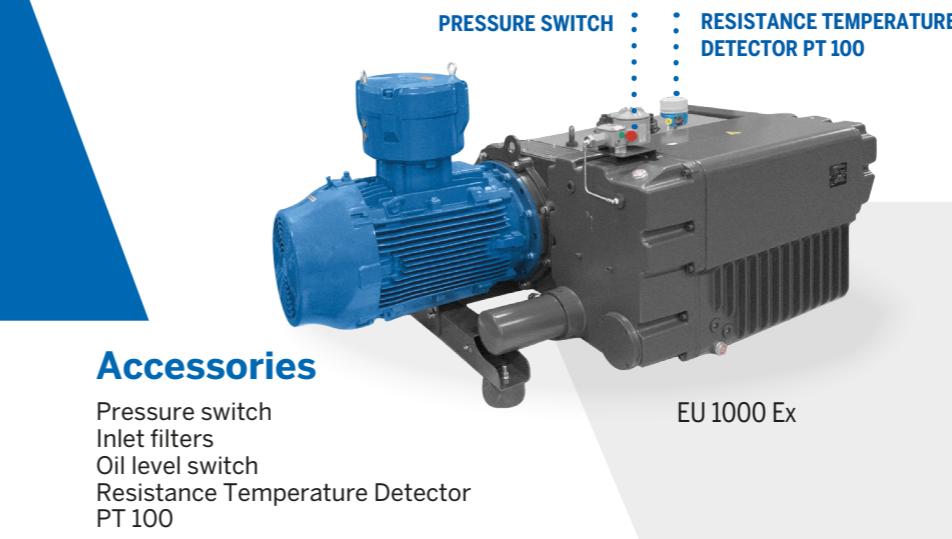


		PVL 401 Ox	PVL 541 Ox	EU 650 Ox	EU 1000 Ox
	417	553	660	1033	
	500	663	792	1239	
Ultimate pressure (abs.)	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5	≤ 0,5
Motor power	kW	11	15	18,5	30



Applications

Packaging machines with modified atmosphere
Vacuum chambers
De-aeration tunnels
Thermoforming packaging machines
Gas bottle filling equipment



Accessories

Pressure switch
Inlet filters
Oil level switch
Resistance Temperature Detector PT 100

Ex-Atex vacuum pumps

We are focused on customers' requirements and for this reason our R&D analyses every single project. Atex pumps are available with special seals and lubricants. Pumps can be supplied with safety devices such as resistance temperature detector PT 100, pressure switch, inlet filters.



Ex-ATEX pumps are provided in compliance with ISO EN 80076 standard:

- (I) II 2G Ex h IIB T3 Gb X
- (I) II 3D Ex h IIIC T80°C Dc X
- (O) II 2G Ex h IIB T3 Gb X
- (O) II 2D Ex h IIIC T150°C Db X

Serie Ox

Oil lubricated vane pumps for oxygen

Ox pumps are used in food packaging installations where Oxygen gas is used during the packaging process. The use of materials that are compatible with the pumped gas as well as the use of dedicated PFPE lubricants allow these pumps the handling of gases with high concentration of Oxygen assuring efficient performance and good safety level.