

Company

PVR srl continues the production of oil lubricated vacuum pumps which began in the Sixties, with the aid of new technologies, as requested from the market. The experience built in over 50 years, the development of new products, the modern production lines and a trained staff allow us to supply reliable and innovative products.



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Provide trusted & advanced technologies

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

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 servicing qualified overhauls and spare parts promptly delivered.



+6012 9541088



sales@hexoind.com

鍾武堯
Edwin Chong
Sales Director
+6012-954 1088
edwin@hexoind.com



Hexo Industries (M) Sdn Bhd (939586-T)
1-2-11, i-Avenue, Medan Kampung Relau 1,
11900 Bayan Lepas, Penang, Malaysia.
Tel/Fax: +604-611 1186
www.hexoind.com

111900-EN



www.hexoind.com

Ex-ATEX Series

Oil lubricated vane vacuum pumps for ATEX environment

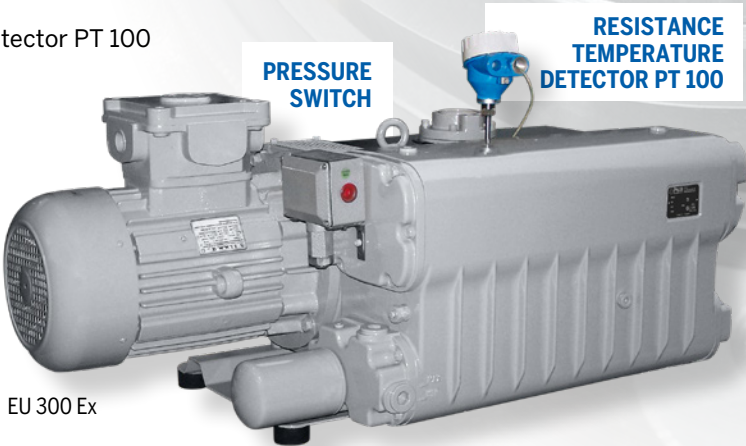
PVR has developed a range of vacuum pumps meeting the 2014/34 EU standards, certified for category 2 suitable for zone 1 inside/outside and temperature class T3 (200 °C), in answer to the frequent requests for pumps capable of operating in hazardous environments.

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

Accessories

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



EU 300 Ex

			EU 45 Ex	EU 65 Ex	EU 105 Ex	EU 160 Ex	EU 300 Ex	EU 160 Ex HWT	EU 300 F Ex HWT
Nominal pumping speed	m³/h	50 Hz	48	69	105	152	300	152	300
		60 Hz	58	83	126	182	360	182	360
Ultimate pressure (abs)	mbar	std	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.8	≤ 0.8
		/B	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	≤ 10	-
Motor power	kW	50 Hz	1.1	1.5	3	4	7.5	4	7.5
		60 Hz	1.7	2.5	3.5	4.6	7.9	4.6	7.9
Water vapour tolerance	mbar	50 Hz	30	30	30	30	30	80	80
Water vapour pumping capacity	kg/h	50 Hz	1	1.4	2.2	3	5	9	13.5

Ox Series

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.



Applications

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



EU105 Ox

EU105 Ox

			PVL 15 Ox	EU 45 Ox	EU 65 Ox	EU 105 Ox	EU 160 Ox
Nominal pumping speed	m³/h	50 Hz	18	48	69	105	152
		60 Hz	21	58	83	126	182
Ultimate pressure (abs)	mbar		≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Motor power	kW	50 Hz	0.75	1.5	2.2	3	4
		60 Hz					

			EU 205 Ox	EU 300 Ox	PVL 401 Ox	PVL 541 Ox	EU 650 Ox	EU 1000 Ox
Nominal pumping speed	m³/h	50 Hz	207	300	417	553	660	1033
		60 Hz	248	360	500	663	792	1239
Ultimate pressure (abs)	mbar		≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5	≤ 0.5
Motor power	kW	50 Hz	5.5	7.5	11	15	18.5	30
		60 Hz						

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



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%. In case the percentage of oxygen is higher than 60%, the use of PFPE lubricant is recommended to avoid oil degradation.

