



# 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

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Provide trusted & advanced technologies



Dual stage oil lubricated  
rotary vane pumps **PHV-K** Series



[www.pvr.it](http://www.pvr.it)

# PHV-K Series

## Dual stage oil lubricated rotary vane pumps

Dual stage oil lubricated rotary vane pumps PHV-K series allow to achieve high vacuum and capacities, easy installation, operation and maintenance.

The pumps have been designed as backing pumps in several type of application.

### Applications

Chemical processes  
Degassing materials  
Drying medicinal products  
Solvent recovery systems  
Distillation systems  
Drying transformer systems  
Transformer impregnation process  
Lamps and bulbs  
Semiconductors

LCD panels  
Leak detectors  
Laboratories  
Metallizing  
Heat treatments  
Mass spectrometry  
Measurement instruments



PHV 30K



PHV 75K



### Advantages

The dual stage oil lubricated rotary vane pumps PHV-K series allow to achieve higher vacuum and capacities, easy installation, operation and maintenance. The PHV-K model is equipped with adjustable gas ballast valve capable of allowing the use of the pump specifically for the application.

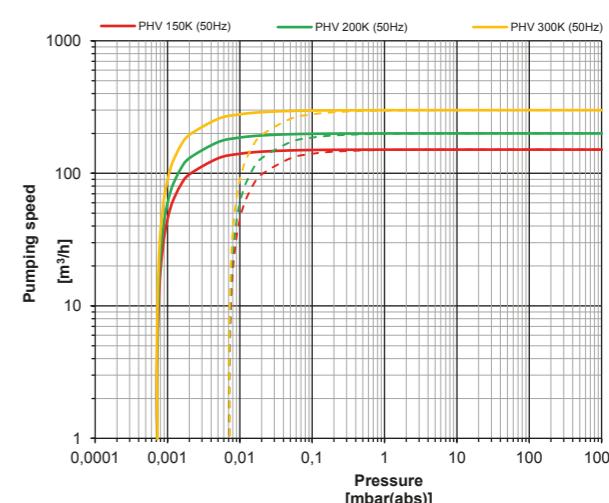
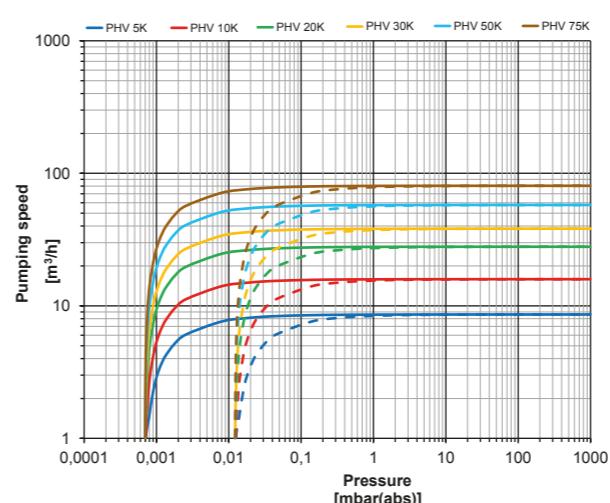
		PHV 5K	PHV 10K	PHV 20K
<b>Nominal pumping speed</b>	50 Hz	5	10	20
	60 Hz	6	12	24
<b>Ultimate pressure (abs.)</b>	1*	$\leq 7 \times 10^{-4}$	$\leq 7 \times 10^{-4}$	$\leq 7 \times 10^{-4}$
	2*	$\leq 7 \times 10^{-3}$	$\leq 7 \times 10^{-3}$	$\leq 7 \times 10^{-3}$
<b>Water vapour tolerance</b>	mbar	53	53	53
<b>Water vapour pumping capacity</b>	kg/h	0,2	0,4	0,8
<b>Noise level</b>	dB(A)	50 Hz	50	50
		60 Hz	50	52
<b>Motor power</b>	kW	50 Hz ~ 3	0,4	0,4
		60 Hz ~ 3	0,4	0,75
<b>Motor speed</b>	rpm	50 Hz	1450	1450
		60 Hz	1750	1750
<b>Dimensions</b>	L x B x H	50 Hz	454x170x253	479x170x253
		60 Hz		543x210x288
<b>Total weight</b>	kg	50 Hz ~ 3	21	22,5
		60 Hz ~ 3	21	38

1\* Gas ballast closed / 2\* Gas ballast open

PHV 30K	PHV 50K	PHV 75K	PHV 150K	PHV 200K	PHV 300K
30	50	75	150	200	300
36	60	90	180	240	360
$\leq 7 \times 10^{-4}$					
$\leq 7 \times 10^{-3}$					
53	53	53	20	35	20
1,2	2	3	1,7	2,2	2
52	56	56	72	74	75
52	56	56	72	74	75
0,75	1,5	2,2	4,0	5,5	7,5
0,75	1,5	2,2	4,0	5,5	7,5
1450	1450	1450	1450	1450	1450
1750	1750	1750	1750	1750	1750
576x210x288	709x250x370	791x280x415	943x360x450	1022x430x486	1122x430x486
41	68	84	138	200	225
41	68	84	138	200	225

## Dual stage oil lubricated vacuum pumps

The technology of dual stage oil lubricated pumps is perfectly suited to both the medium vacuum of industrial applications and the finer one required by research applications. In fact, the wide range of models allows their use in all application areas of the market.



Gas ballast closed  
Gas ballast open

