

Company

PVR continues the production of 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.

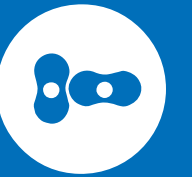


sevencom.it



Provide trusted & advanced technologies

Rotary Lobe Vacuum Pumps **HV - HV/BP** 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.



PVR Srl

HEADQUARTERS:

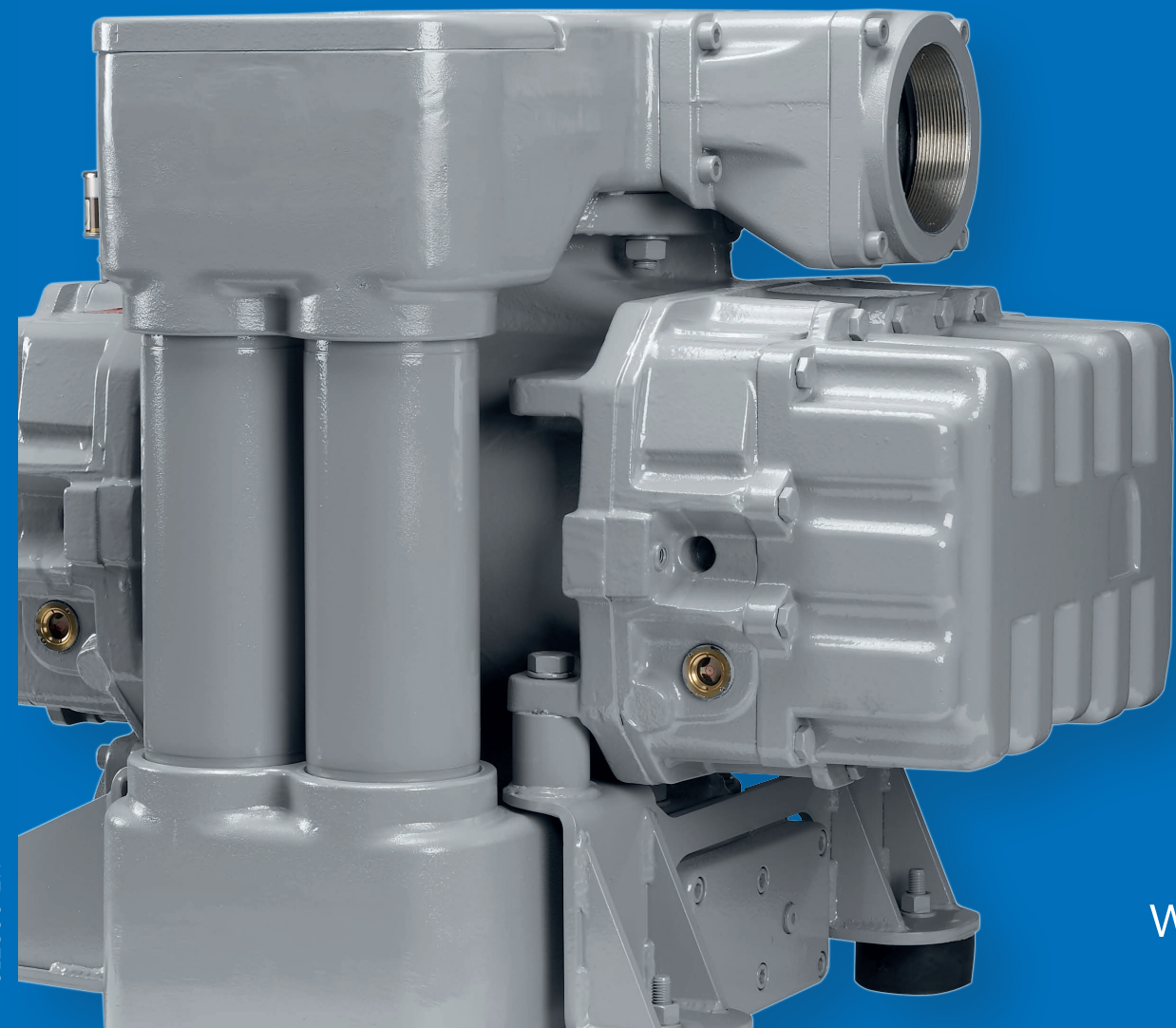
Via Santa Vecchia, 107 - 23868 Valmadrera (LC), Italy
T +39 0341 1918 51 - F +39 0341 1918 599
sales@pvr.it - www.pvr.it

LOCAL UNIT:

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



012300-EN



www.pvr.it

HV Series

Roots pumps for high vacuum

Vacuum blowers HV Series have been designed for conveying air and neutral gases and are especially used in industrial high vacuum technology. With its extended range of models, a nominal capacity from 180 m³/h to 97.000 m³/h is covered. The pressure ranges from 10⁻³ mbar up to approx. 200 mbar abs.

Applications

Packaging machines
Vacuum chambers
Thermoforming machines
De-aeration tunnels
Freezing chambers
Dryers
Oil decontamination
Chemical processes
Degassing materials
Drying medicinal products
Solvent recovery systems
Distillation systems
Drying transformer systems
Lamps and bulbs
Semiconductors
Solar panels
LCD panels
Motor/transformer impregnation process

GMa 13.f7 HV

Autoclaves
Leak detectors
Laboratories
Thermoforming packaging machines
Metallizing
Heat treatments
Central vacuum systems

		GMa 10.0 HV	GMa 10.1 HV	GMa 10.2 HV	GMa 11.3 HV	GMa 11.4 HV	GMa 12.5 HV	GMa 12.6 HV	GMa 13.f7 HV	GMa 13.8 HV	GMb 14.9 HV	GMb 15.10 HV	GMb 15.11 HV	GMb 16.f13 HV	GMb 16.13 HV	GMb 17.15 HV
Nominal pumping speed	m ³ /h	180	250	365	500	750	1000	1430	2000	2900	3900	5600	7500	8150	9750	16000
	60 Hz	250	300	450	600	900	1200	1700	2400	3450	4700	6700	9000	9800	11700	18825
Max admissible differential pressure	mbar	130	140	130	140	130	130	130	110	100	80	80	80	75	75	60
Motor power	kW	0,75	1.1	1.5	2.2	3	4	5.5	7.5	11	11	15	18.5	18.5	22	30
Motor speed	rpm	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	3000	1500	1500	1500
	60 Hz	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	3600	1800	1800	1800

All the models are available in the version GLa/ GLb with horizontal flow

Variable Frequency Drive

Roots vacuum pumps equipped with inverter offer the following advantages:
high performance (increased capacity), flexible use, competitive costs,
low power consumption, possibility of revamping on already existing plants.

Inverter INVT



Inverter

HV/BP Series

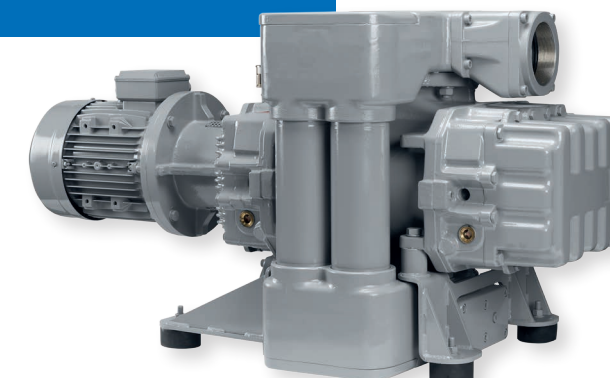
Roots vacuum pumps with bypass valve

Roots vacuum pumps HV/BP Series complete with bypass valve are mainly used coupled to a backing pump to speed up pumping down times and to achieve vacuum level up to 0.02 mbar abs. The bypass valve allows to start the Roots pump at the same time as the backing pump, protecting the Roots pump from any operation at high overpressure.

Applications

Packaging machines
Vacuum chambers
Thermoforming machines
De-aeration tunnels
Freezing chambers
Dryers
Oil decontamination
Chemical processes
Degassing materials
Drying medicinal products
Motor/transformer impregnation process
Solvent recovery systems
Distillation systems
Drying transformer systems
Lamps and bulbs
Solar panels

LCD panels
Autoclaves
Leak detectors
Laboratories
Thermoforming packaging machines
Metallizing
Heat treatments
Central vacuum systems



GMa 13.f7 HV/BP

		GMa 11.3 HV/BP	GMa 11.4 HV/BP	GMa 12.5 HV/BP	GMa 12.6 HV/BP	GMa 13.f7 HV/BP	GMa 13.8 HV/BP
Nominal pumping speed	m ³ /h	500	730	1000	1430	2000	2900
	60 Hz	600	900	1200	1700	2400	3450
Ultimate pressure (abs)*	mbar	≤2x10 ⁻²	≤2x10 ⁻²	≤2x10 ⁻²	≤2x10 ⁻²	≤2x10 ⁻²	≤2x10 ⁻²
Motor power	kW	1.5	2.2	3	4	5.5	7.5
	60 Hz	2.2	3	4	5.5	7.5	11
Motor speed	min ⁻¹	3000	3000	3000	3000	3000	3000
	60 Hz	3600	3600	3600	3600	3600	3600
Noise level	dB(A)	71	71	72	72	75	75
	60 Hz	72	72	73	73	76	76
Weight	kg	178	184	232	295	387	513
	60 Hz	184	189	246	317	410	526

* Final vacuum is the vacuum achieved by coupling a Roots pump to a "PVR" manufactured vacuum pump

