



Vacuum Pumps

www.vooner.com



Company

Vooner FloGard, LLC, is a member of the Aerzen Group and was founded in 1983 to supply high-quality liquid ring vacuum pumps and systems. Customers trust Vooner vacuum pumps due to their high reliability and low maintenance costs, providing years of trouble-free service.

Today, Vooner has evolved into an advanced center for vacuum technology, offering innovative solutions tailored to various industries. In addition to its core offerings, Vooner includes PVR (PVR Vacuum Design) as part of its portfolio. PVR is renowned for its cutting-edge design and manufacturing of high-precision vacuum systems. This partnership enhances Vooner's capabilities, enabling a broader range of products and services, including advanced vacuum solutions for various industries, such as food, chemicals, pharmaceuticals, and many others.

Vooner supports Aerzen's advanced vacuum booster technologies, which offer the largest range of capacities and efficiencies. Together with PVR, Vooner is committed to providing sustainable energy conservation solutions and superior dewatering systems, ensuring customers benefit from innovative and reliable technologies.



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.



Scan to find out more



Technologies



The **wet rotary vane vacuum pump technology** is perfectly suited for industrial applications in the medium vacuum field, as well as in the high vacuum one reserved for research applications. The wet rotary vane vacuum pumps are designed in one or two stages.



DRY claw vacuum pumps and dry compressors are designed for applications where the compression chamber does not contaminate the process. The absence of wear components in these pumps offers big saving advantages in terms of maintenance and associated downtime.



The **SCREVVAC Series** of dry screw vacuum pumps has been designed for use in various industrial fields. Screw technology captures the gas between the stator and screw rotors, taking it from the point of entry into the pump (inlet) to the exhaust port. The hybrid design is a combination of both the variable and fixed pitch screw profile, offering a significant increase in pump efficiency and guarantees optimal results even for the most demanding applications.



Our **rotary lobe vacuum pumps** are specially designed to be used in combination with our primary pumps to achieve higher pumping speeds and/or lower ultimate pressures.



Our **dry vane vacuum pumps** are extremely compact and light thanks to the monobloc design, ensuring a silent and vibration-free operation.

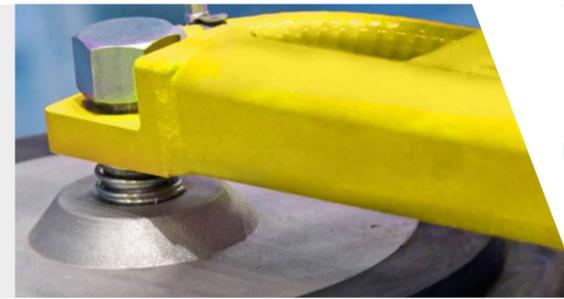


The "M41 and M71" **diaphragm pumps** are completely oil-free and can be used to create both vacuum and pressure. All pumps are available with either single or double heads to be used in parallel or in series.

Industries



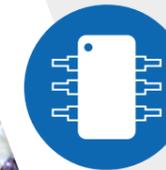
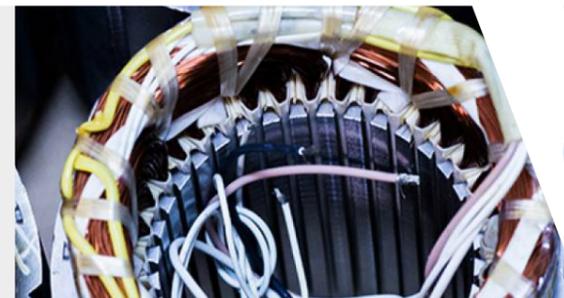
Cutting-edge vacuum technologies designed for the **food industry**, with a focus on processing and packaging applications. These include vacuum chambers, form fill and seal machines, vegetable cooling, freeze dryers and tumblers/marinators, ensuring product quality, safety and extended shelf life.



Efficient vacuum systems designed for the **packaging, handling & plastics industry**, applied in thermoforming, blister packaging, pneumatic conveying, plastic extrusion and CNC routing. These technologies improve precision, efficiency and automation in material handling and packaging processes.



Customized vacuum technologies for the **chemical and pharmaceutical industry**, enabling safe handling of reactive substances, precise pressure control and contamination-free environments for high-purity production.



Reliable vacuum solutions for the **electrical industry**, used in critical processes such as packaging, chemical process, chamber evacuation, vacuum coating and transformer drying, ensuring high insulation quality and overall processes efficiency.



Sustainable vacuum technologies contributing to the **green transition**, applied in R&D, biogas and biomethane production, solar panel assembly, water purification and soil remediation, promoting environmental protection and long-term sustainability.



Versatile vacuum solutions for **other industries**, including metallization, heat treatments, gas analysis, glass and ceramic production, marble processing, wood drying, printing and environmental remediation, supporting diverse industrial needs with precision and reliability.

Product Index



Wet rotary vane vacuum pumps



EM Series
Compact single stage wet rotary vane vacuum pumps
Page 10



PVL/EU Series
Single stage wet rotary vane vacuum pumps
Page 12



EU H Series
High vacuum single stage wet rotary vane vacuum pumps
Page 12



EU HWT Series
Single stage wet rotary vane vacuum pumps with High Water Tolerance
Page 14



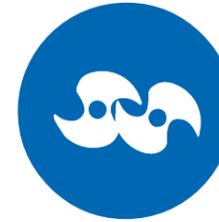
EX-ATEX Series
Wet rotary vane vacuum pumps for ATEX environment
Page 16



OX Series
Wet rotary vane vacuum pumps for oxygen (EU/PVL)
Page 17



PHV K Series
Dual stage wet rotary vane vacuum pumps
Page 18



Dry claw vacuum pumps and compressors



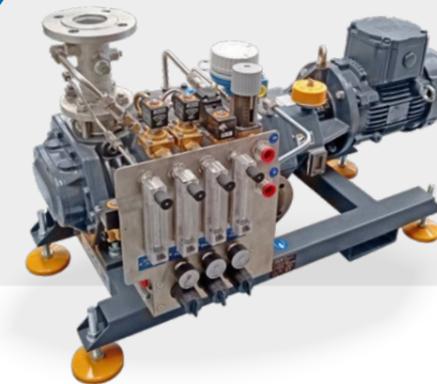
DRY C - CR Series
Dry claw vacuum pumps
Page 20



DRY C - CR P Series
Dry claw vacuum compressors
Page 22



Dry screw vacuum pumps



SD Series
Dry screw vacuum pumps
Page 24

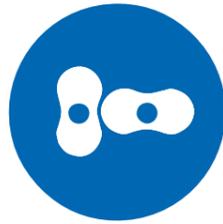


Vacuum pumps VFD Series



EU / DRY C-CR VFD Series
Energy savings vacuum pumps
Page 26

Product Index



Aerzen Vacuum Boosters



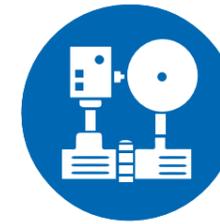
HV Series
High Vacuum boosters
Page 28



HV/BP Series
High Vacuum boosters with bypass valve
Page 30



HV VFD Series
Variable Frequency Drive
Page 31



Vacuum Systems

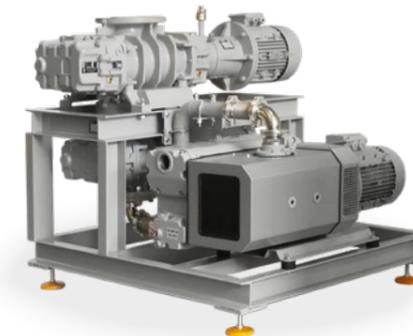


CSKZ / CDKZ / CTKZ Series
Compact central vacuum systems
Page 40



GVK Series
Compact vacuum systems
Page 38

Customised vacuum Systems
Customized vacuum systems
Page 42



GC - GV Series
Compact vacuum systems
Page 44



Plug & Pump vacuum systems
Page 46



Dry vane vacuum pumps and compressors



VD Series
Compact single stage dry vacuum pumps
Page 32



CD Series
Single stage dry vacuum compressors
Page 34



Diaphragm vacuum pumps and compressors



MICRO Series
Diaphragm vacuum pumps and compressors
Page 36



Spare Parts and Accessories
Page 48



Rotant VF

EM Series

Compact single stage wet rotary vane vacuum pumps



EM Series includes wet rotary vane vacuum pumps extremely compact and light thanks to their monobloc design. They are easy to install and service. The use of the gas ballast valve allows getting rid of vapours (starting from the model EM 8). The multifrequency motors allow the use of the EM pumps in different geographic areas.



EM 4



EM 20



EM 8



EM 40

Wet rotary vane vacuum pumps

The technology of the wet rotary vane vacuum pumps suits perfectly the industrial applications in the rough vacuum field. The EM Series has been designed to obtain a compact and versatile pump, reliable and easy to maintain. It is available in a wide range of models and accompanied by a series of specific accessories.

TOP 3 INDUSTRIES



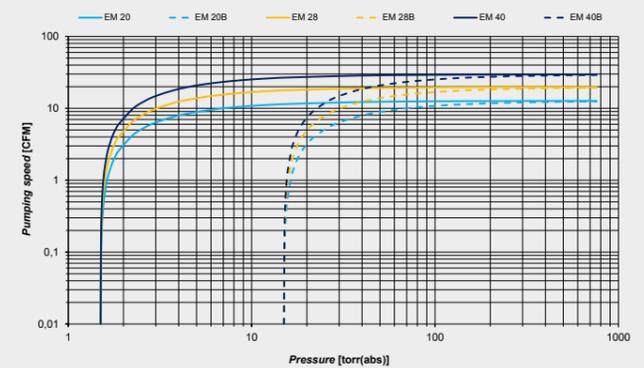
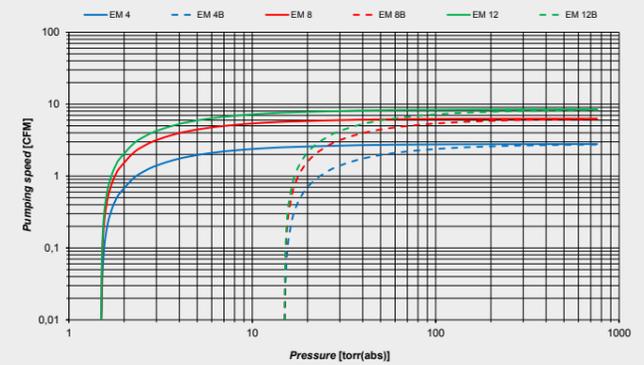
Food Industry
Vacuum chamber machines



Packaging, handling & plastics
Pick and place



Chemical & pharmaceutical Industry
Vacuum mixers



		EM 4	EM 8	EM 12
Nominal pumping speed	cfm	2,8	5,88	8,8
Ultimate pressure (abs)	torr	EM	1,5	1,5
		EM B	15	15
Water vapour tolerance	torr	-	20	30
Water vapour pumping capacity	lbs/h	-	0,375	0,6
Noise level	dB(A)	59	60	66
Motor power	Hp	0,2	0,33	0,60
Motor speed	rpm	3600	3600	3600
Dimensions	L x W x H	in	9,29x5,08x5,47	11,02x8,42x7,9
Total weight	lbs	11,9	25,8	28,6

		EM 20	EM 28	EM 40
		12,36	19,4	30
		1,5	1,5	1,5
		15	15	15
		30	30	30
		1,35	2	2,7
		67	67	69
		0,88	1,2	1,74
		3600	3600	3600
		11,73x8,7x6,26	13,03x10,47x8,74	16,34x10,47x8,82
		37,5	57,3	66

PVL/EU Series

Single stage wet rotary vane vacuum pumps



PVL/EU vacuum pumps offer high performance and quality levels. Their main features are high pumping speed in a range of absolute vacuum between 0,375 torr and 637 torr considering the wide range of PVL/EU Series. Low noise level, no pollution, air-cooled, rugged construction, easy to service. They are used for pumping air also in the presence of water vapour and for continuous industrial use.

EU 47M and EU 67M versions available



Scan to find out more

		PVL 15	PVL 35	PVL 401	PVL 541	
Nominal pumping speed	cfm	12,36	14,7	294,29	390,23	
Ultimate pressure (abs)	torr	PVL - EU	0,375	0,375	0,375	0,375
		PVL B - EU B	15	15	7,5	7,5
Water vapour tolerance	torr	30	30	30	30	
Water vapour pumping capacity	lbs/h	0,75	1,5	24	30	
Noise level	dB(A)	60	66	79	80	
Motor power	Hp	1	1,5	15	20	
Motor speed	rpm	1800	1800	1800	1800	
Dimensions	L x W x H in	16,33x10,24x8,74	18,11x10,6x10,55	57,8x26,85x20,94	57,8x26,85x20,94	
Total weight	lbs	59,5	93,7	703,3	795,8	

*Gas ballast open

EU 300 H



EU H Series

High vacuum wet rotary vane vacuum pumps

The wet rotary vane vacuum pumps of the EU H series allow to achieve higher capacity and higher vacuum levels. At 0,75 torr the pumping speed of the H series with gas ballast valve closed is 80% higher than the one of an equivalent EU standard version.

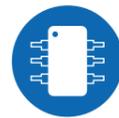
TOP 3 INDUSTRIES



Food Industry
Vacuum chamber machines



Chemical & pharmaceutical Industry
Vacuum dryers



Electrical Industry
Transformers oil purification

EU 67



EU 650



PVL 541

next
GENERATION

EU 47	EU 67	EU 105	EU 160	EU 205	EU 300	EU 650	EU 1000
32,9	47,1	74,16	107,12	144,2	211,9	464,97	729,2
0,075	0,075	0,375	0,375	0,375	0,375	-	0,375
0,225	0,225	7,5	7,5	7,5	7,5	0,375	7,5
22,5	22,5	30	30	30	30	30	30
2,64	3,96	6,6	9	11	15	50	60
62	63	69	72	72	73	76	81
2	3	4	5,5	7,5	10	25	40
1800	1800	1800	1800	1800	1800	1200	1200
22,91x12,44x11,22	27,2x13,78x12,52	28,94x15,94x13,15	32,05x17,16x13,7	37,16x21,7x17,16	40,12x21,7x17,16	58,30x32,4x25,8	71,38x37,2x30,83
108	165	189,6	242,5	397	450	1349,2	2248,7

		EU 107 H	EU 300 H	EU 650 H
Nominal pumping speed	cfm	76,5	211,9	464,97
Ultimate pressure (abs)	torr	1*	0,075	0,075
		2*	0,375	0,375
Water vapour tolerance	torr	30	30	30
Water vapour pumping capacity	lbs/h	6,6	15	50
Noise level	dB(A)	68	73	76
Motor power	Hp	4	10	25
Motor speed	rpm	1800	1800	1200
Dimensions	L x W x H in	29,52x15,98x12,87	40,12x21,7x17,16	58,30x32,4x25,8
Total weight	lbs	196,2	423,3	1349,2

1* Gas ballast closed
2* Gas ballast open

EU HWT Series

Single stage wet rotary vane vacuum pumps
with High Water Tolerance



HWT pumps offer superior performance and quality levels in applications with a high concentration of vapors in suction, which can condense inside the pump body. Their main features are: increased gas ballast capacity and higher vapour tolerance. They are especially designed for pumping fluids in the presence of large quantities of vapours.

* EU 47M HWT and EU 67M HWT versions available



Scan to find out more



		next GENERATION			
		EU 47 HWT*	EU 67 HWT*	EU 107 HWT	EU 160 HWT
Nominal pumping speed	cfm	32,9	47,1	76,5	107,12
Ultimate pressure (abs)	torr	0,6	0,6	0,6	0,6
Water vapour tolerance	torr	60	60	90	80
Water vapour pumping capacity	lbs/h	5,29	7,93	23,8	23,8
Noise level	dB(A)	62	63	68	72
Motor power	Hp	2	3	4	5,5
Motor speed	rpm	1800	1800	1800	1800
Dimensions	L x W x H in	22,91x12,44x11,22	27,2x13,78x12,52	29,52x15,98x14,7	32,05x17,16x13,7
Total weight	lbs	108	165	196,2	242,5

EU 205 HWT	EU 300 HWT	EU 650 HWT
144,2	211,9	464,97
0,6	0,6	0,6
80	80	28,41
26,8	35,7	50,3
72	73	76
7,5	10	25
1800	1800	1200
37,16x21,7x17,16	40,12x21,7x17,16	58,30x32,4x25,8
397	450	1349,2



EU 160 HWT



EU 300 F HWT

HWT technology

PVR's R&D team developed this unique design to make the EU Series of wet rotary vane vacuum pumps the only one in the world capable of handling larger quantities of water vapour while ensuring optimal ultimate pressure performance.

All this means huge benefits for the customers such as low maintenance costs, lower lifecycle costs, high productivity, longer lifetime of pumps and components, reduction of lubricant disposal costs and respect for the environment.

TOP 3 INDUSTRIES



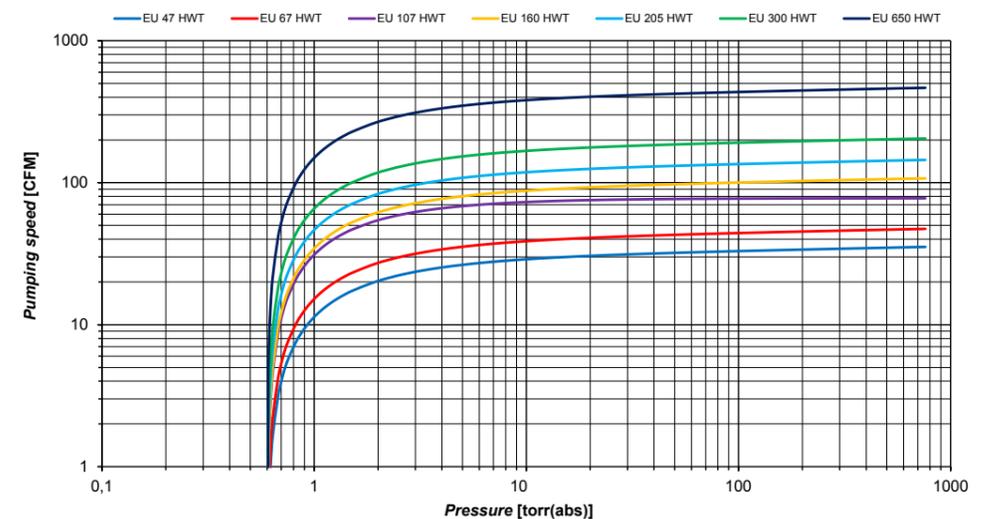
Food Industry
Vacuum tumblers



Chemical & pharmaceutical Industry
Vacuum dryers



Other Industries
Washing and drying machines



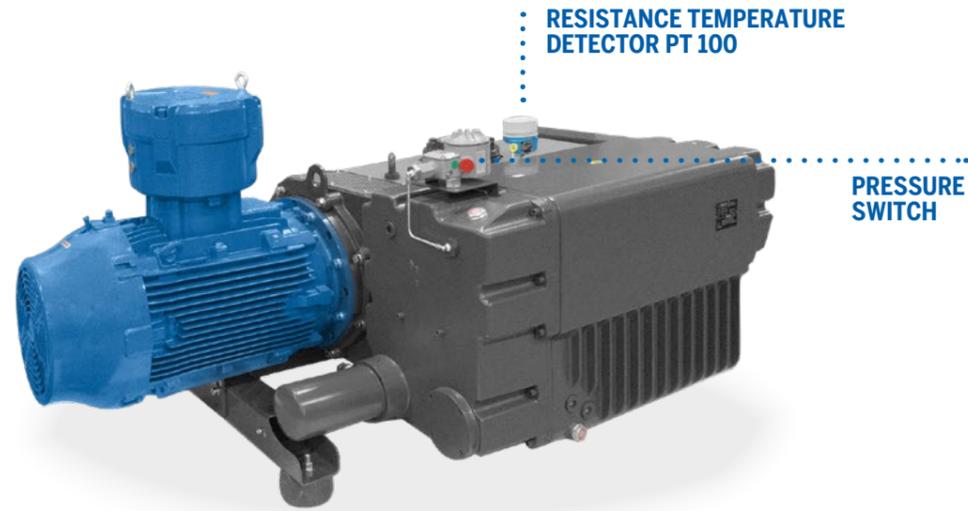
Ex-ATEX Series

Wet rotary 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 (392° F), in response to frequent requests for pumps capable of operating in hazardous environments.



EU 1000 Ex



OX Series

Wet rotary vane vacuum pumps for oxygen (EU/PVL)

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



EU 300 Ox

TOP 3 INDUSTRIES

-  **Chemical & pharmaceutical Industry**
Oxygen applications
-  **Food Industry**
Thermoforming Modified Atmosphere Packaging Machines (MAP)
-  **Other Industries**
Heat treatments

Ex-ATEX pumps are provided in compliance with ISO EN 80079-36:2016 and EN 80079-37:2016 standard

		EU 45 Ex	EU 65 Ex	EU 105 Ex	EU 160 Ex	EU 300 Ex
Nominal pumping speed	cfm	34,1	48,8	74,16	107,12	211,9
Ultimate pressure (abs)	torr	EU 0,375	0,375	0,375	0,375	0,375
		EU/B 7,5	7,5	7,5	7,5	7,5
Water vapour tolerance	torr	30	30	30	30	30
Water vapour pumping capacity	lbs/h	3	4,2	6,6	9	15
Noise level	dB(A)	69	70	69	72	73
Motor power	Hp	2,27	3,35	4,69	6,17	10,59
Motor speed	rpm	1800	1800	1800	1800	1800
Dimensions	L x W x H in	25,2x13,42x14,5	28,35x13,42x14,84	31,89x15,98x15,51	35,12x17,13x16,34	42,87x21,7x19,02
Total weight	lbs	169,75	227,08	253,53	330,7	551,2

EU 650 Ex	EU 1000 Ex	EU 160 Ex HWT	EU 300 F Ex HWT	EU 650 Ex HWT
464,97	729,2	107,12	211,9	464,97
0,375	0,375	0,6	0,6	0,6
	7,5			
29	30	80	80	28,41
50	60	27	40,6	50,3
76	81	72	73	76
25	40	5,5	11	25
1200	1200	1800	1800	1200
58,30x32,4x25,8	73,9x37,2x33,1	35,12x17,13x16,34	42,87x21,7x19,02	58,30x32,4x25,8
1349,2	2601	330,7	551,2	1349,2

TOP 3 INDUSTRIES

-  **Chemical & pharmaceutical Industry**
Vacuum dryers
-  **Green transition**
Biogas plants
-  **Other Industries**
Soils remediation



PHV K Series

Dual stage wet rotary vane vacuum pumps



Dual stage wet rotary vane vacuum pumps PHV-K Series allow to achieve high vacuum and capacities, easy installation, operation and maintenance. They have been designed as backing pumps in several types of application.

Dual stage wet rotary vane vacuum pumps

The technology of dual stage wet rotary vane vacuum 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.

PHV 30K

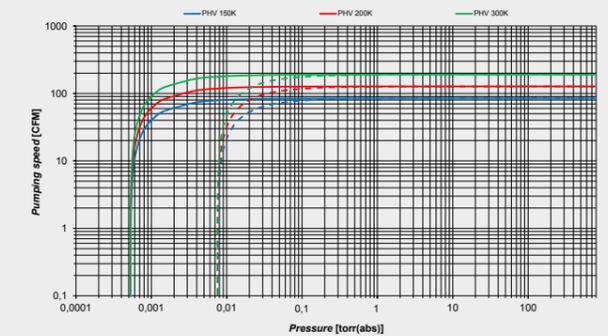
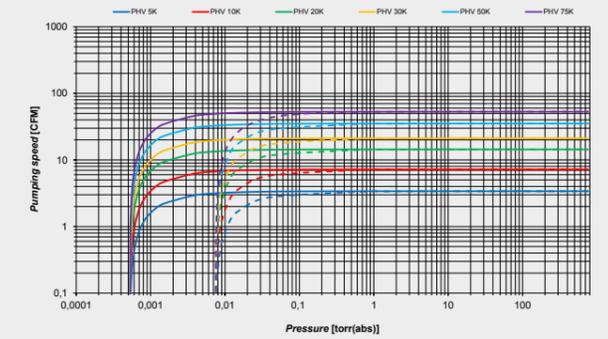


PHV 75K



TOP 3 INDUSTRIES

-  **Chemical & pharmaceutical Industry**
Distillation
-  **Food Industry**
Laboratories
-  **Other Industries**
Leaks detection



— Gas ballast closed
- - - Gas ballast open

		PHV 5K	PHV 10K	PHV 20K	PHV 30K	PHV 50K
Nominal pumping speed	cfm	3,5	7	14,1	21,2	35,3
Ultimate pressure (abs)	1* torr	≤ 5X10 ⁻⁴				
	2* torr	≤ 5X10 ⁻³				
Water vapour tolerance	torr	39,8	39,8	39,8	39,8	39,8
Water vapour pumping capacity	lbs/h	0,44	0,87	1,7	2,6	4,3
Noise level	dB(A)	50	50	52	52	56
Motor power	Hp	0,5	0,5	1	1	3
Motor speed	rpm	1750	1750	1750	1750	1750
Dimensions	L x W x H in	17,8x6,7x10	18,9x6,7x10	22,9x8,3x11,3	24,2x8,3x11,3	28x9,8x14,6
Total weight	lbs	46	50	94,6	101,2	185,2

PHV 75K	PHV 150K	PHV 200K	PHV 300K
35,3	105	141	211,9
≤ 5X10 ⁻⁴	≤ 5X10 ⁻⁴	≤ 5X10 ⁻⁴	≤ 5X10 ⁻⁴
≤ 5X10 ⁻³	≤ 5X10 ⁻³	≤ 5X10 ⁻³	≤ 5X10 ⁻³
39,8	15	26,3	15
6,5	3,7	4,9	4,3
56	72	74	75
3	5	7,5	10
1750	1750	1750	1750
31,2x11x16,3	38,6x14,2x17,7	40,5x16,9x19,1	44,4x16,9x19,1
220,5	312,9	449,2	504,5

1* Gas ballast closed
2* Gas ballast open

DRY C - CR Series

Dry claw vacuum pumps



DRY C Series has been designed for those applications where the treated product must remain free of contaminants during the process. In these pumps, the absence of parts subject to wear offers significant savings in terms of both maintenance and downtime.



Scan to find out more



		DRY C 100	DRY C 157	DRY C 250	DRY C 300
Nominal pumping speed	cfm	70,6	105,9	282	211,9
Ultimate pressure (abs)	torr ("HgV)	-	37,5 (28,41)	-	-
Continuous ultimate pressure (abs)	torr ("HgV)	112,5 (25,46)	52,5 (27,82)	150 (23,98)	150 (23,98)
Sound pressure level with Silencer	dB(A)	77	75	80	81
Motor power	Hp	5	7,5	7,5	10
Motor speed	rpm	3600	3600	3600	3600
Dimensions	L x W x H in	29,1x25,39x15,39	33,74x14,33x20,75	34,57x30,24x20,87	35,9x30,24x20,87
Total weight	lbs	223	273	440	482,81



DRY C 157

DRY C 157 is also available in ATEX version.



DRY CR 60	DRY CR 150	DRY CR 400	DRY CR 500	DRY CR 1000
42,4	105,9	282,5	353,1	671
37,5 (28,41)	37,5 (28,41)	37,5 (28,41)	37,5 (28,41)	37,5 (28,41)
75 (26,93)	75 (26,93)	150 (23,98)	150 (23,98)	150 (23,98)
80	76	78	78	85
2	5,4	12,3	15	29,5
3450	3450	3450	3450	3450
29x12,6x13,1	33,7x16,1x20,7	49,1x22x34,1	50,5x22x34,1	59,6x26,7x48,7
132,3	302	782,6	1003,1	1609,4



DRY C 300

High Corrosion Tolerance

The HCT version of the DRY C Series pumps consists of a surface treatment of the rotors to increase the resistance to water vapour and corrosion. The special treatment and the absence of wear parts allow considerable savings in terms of both maintenance and machine downtime.



TOP 3 INDUSTRIES



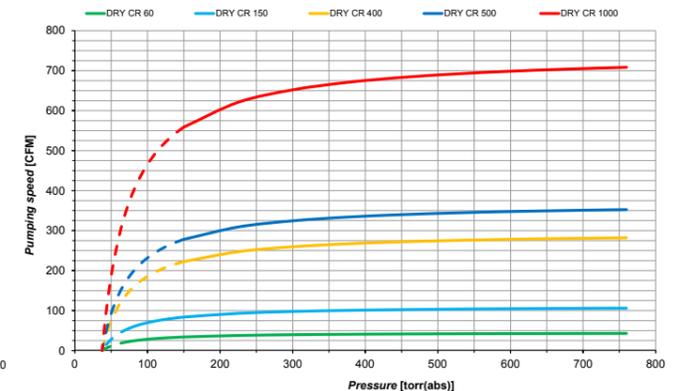
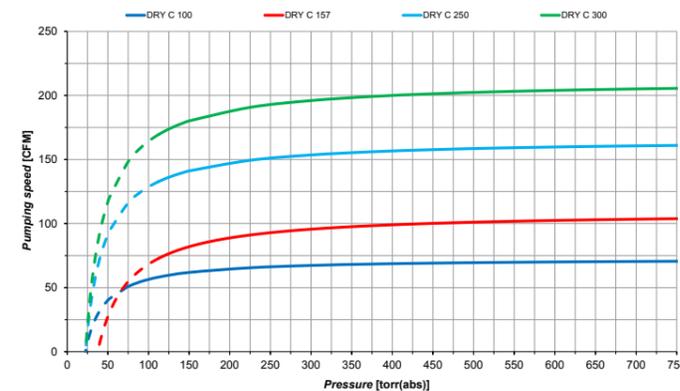
Food Industry
Pick and place



Packaging, handling & plastics
Extrusion Lines



Other Industries
CNC wood machines



DRY C - CR P Series

Dry claw compressors



DRY C - CR P compressors are dry compressors with two claw-shaped rotors which are running with synchronized rotation by means of a pair of gears. The compression chamber is free of lubricating or sealing fluids.



DRY C 157 P



Scan to find out more



		DRY C 100 P		DRY C 157 P			DRY C 250 P
Nominal pumping speed	cfm	70,6		105,9			166
Ultimate pressure (G.)	PSIG	7,25	14,50	13	17,4	34,7	8,2
Sound pressure level with Silencer	dB(A)	78		80			80
Motor power	Hp	3	5	7,5	10	15	10
Motor speed	rpm	3600		3600			3600
Dimensions	L	29,3	30,4	37,1	41,1	41,1	41
	W x H	16,7x15,8		26,3			29,1x20,9
Total weight	lbs	231,5	246,9	386	397	531	677

TOP 3 INDUSTRIES



Food Industry
Water treatment

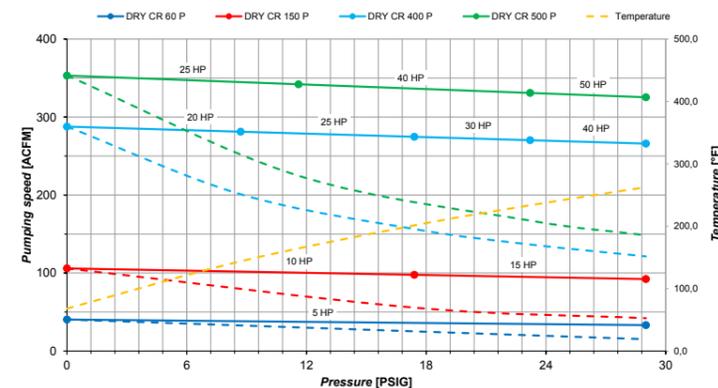
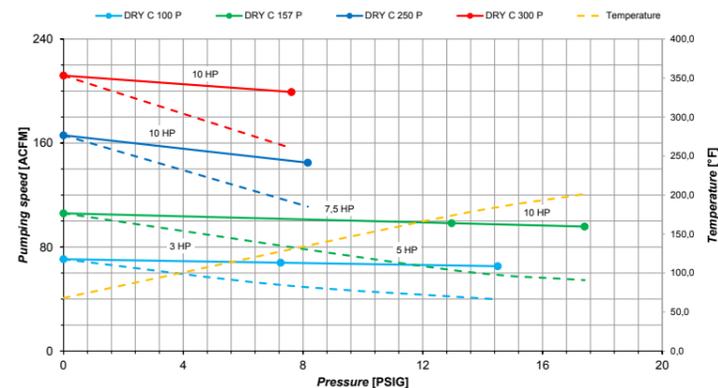


Packaging, handling & plastics
Pneumatic conveying systems



Chemical & pharmaceutical Industry
Water treatment

DRY C 300 P	DRY CR 60 P	DRY CR 150 P		DRY CR 400 P				DRY CR 500 P			
212	40	105,9		282,5				353,1			
7,6	29	17,4	29	8,7	17,4	23,2	29	11,6	23,2	29	
81	79	82		82				83			
10	5,3	10	12,3	20	24,8	29,5	40	25	40	50	
3600	3450	3450		3450				3450			
41,5	32,2x11,7x18,1		41,9x17x25,3		54,8x26,5x40,6				56,9x26,5x40,6		
29,1x20,9											
708	165	380	525	790	802	814	828	1003	1015	1032	



DRY CR 500 P



Dry claw technology

Designed to avoid contaminating applications and processes. These pumps are suitable for any application even in the most challenging conditions thanks to their robustness, simplicity and contaminant handling capability. Dry C guarantees minor lifecycle costs, high productivity, low energy consumption, simple operation and control, maintenance free.

Screwvac SD Series

Dry screw vacuum pumps



The SCREWVAC Series dry screw vacuum pumps, thanks to the exclusive "hybrid" design of the high efficiency rotors, allow significant energy savings and a low exhaust gas temperature. Hybrid Variable Pitch developed by combining and maximizing advantages of both Single pitch and Variable pitch.

Screwvac SD BARESHAFT series screw pumps are ATEX certified up to category II 2G Ex h T4 IIC Gb.

		SD 120	SD 250	SD 350	SD 650	SD 1500	SD 2500
Nominal pumping speed	cfm	76,5	176,7	235,4	470,9	882,9	1589,2
Ultimate pressure (abs)	torr	≤ 0,05	≤ 7,5x10 ⁻³	≤ 7,5x10 ⁻³	≤ 7,5x10 ⁻³	≤ 0,05	≤ 0,05
Motor power	Hp	5,3	10	14,7	24,8	49,6	73,7
Motor speed	rpm	3500	3500	3500	3500	1750	1750
Noise level	dB(A)	77	79	81	82	83	84
Cooling water (@ 59° F)	US gal/min	1,3 - 2,6	2,6 - 4	2,6 - 4	4 - 5,3	7,9 - 10,6	10,6 - 13,2
Dimensions	L x W x H in	45x12,4x24,3	51,5x16,3x30,6	55,7x18,3x31,7	67,8x21,5x35,2	94,5x27,9x43,7	107x40,2x48,9
Total weight	lbs Bareshaft	165	771,6	460	630	1540	4960,4

Advantages

- An efficient water cooling system allows better management of the pump's operating temperature, adapting it to the application's purpose
- No contamination of process flow
- Low discharge temperature
- Long service intervals
- Low cost of maintenance
- Immediate recovery of the solvent at the pump discharge

Furthermore, a special surface treatment of screws and stator increases resistance to corrosion, extending the life of the pump. ATEX version available.

TOP 3 INDUSTRIES

-  **Chemical & pharmaceutical Industry**
Vacuum dryers
-  **Green transition**
Biogas plants
-  **Other Industries**
Washing and drying machines



SCREWVAC SD 350 BARESHAFT

TEMPERATURE ELEMENT (TE)

ATEX MOTOR



CONTROL PANEL

TERMOSTATIC CONTROL VALVE (TCV)

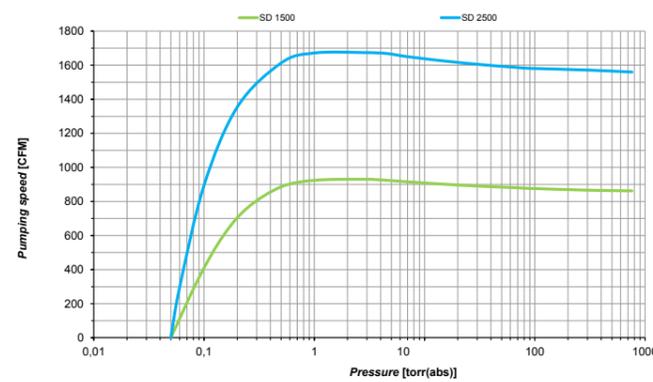
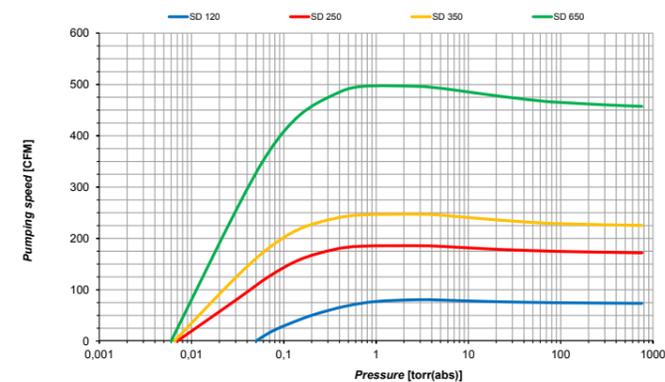
SCREWVAC SD 120

AIR FILTER

SILENCER

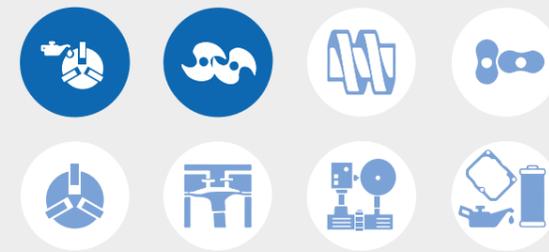
INVERTER (VFD)

SCREWVAC SD 350 VFD



EU/DRY C-CR VFD Series

Energy savings vacuum pumps



Vacuum pumps with inverters offer high performance with low power consumption and are available all over the United States thanks to 60 Hz operation. The VFD family stands out from the standard for variable pumping speed starting from atmospheric pressure up to the limit vacuum of each type of pump, ensuring sustainable energy savings and reducing maintenance costs. The characteristic robustness and quality of our products keep unchanged.

Available Technologies



TOP 3 INDUSTRIES

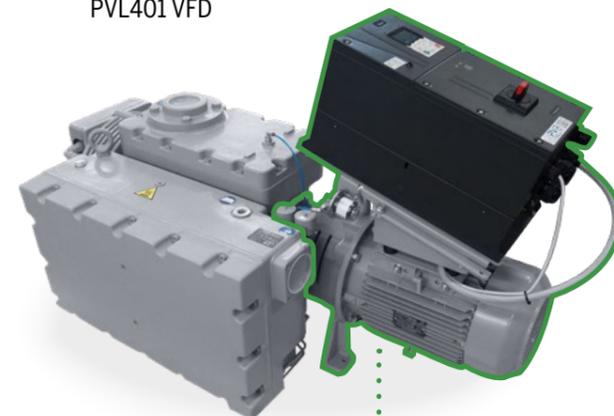
- Food Industry**
Thermoforming Modified Atmosphere Packaging Machines (MAP)
- Chemical & pharmaceutical Industry**
Vacuum dryers
- Green transition**
Biogas plants

INTEGRATED INVERTER VERSION



EU 300 VFD

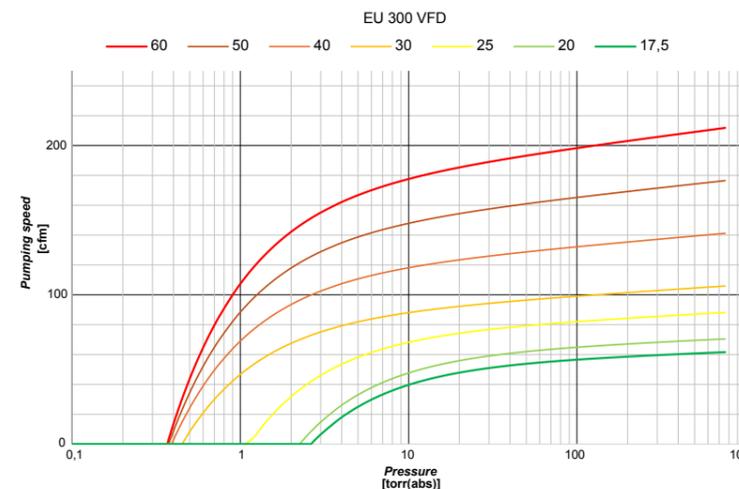
PVL401 VFD



POSSIBLE RETROFIT KIT

INTEGRATED INVERTER VERSION

DRY C 300 VFD



save energy



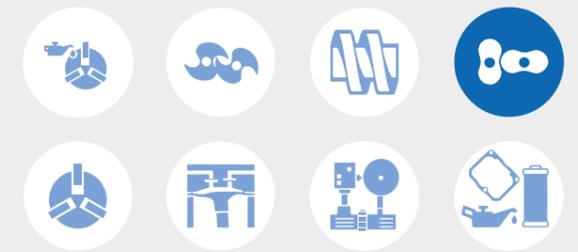
Variable Frequency Drive

Integrated safety technology **tailored to individual requirements**.
 Easy connection system to reduce mounting and installation times. Short-circuit and earth fault proof.
 A vacuum sensor with a digital display provides real-time vacuum readings.
 Thanks to the high degree of protection (IP65), it is ideally suited for use in the harshest environments.
Maintenance costs considerably reduced.



HV Series

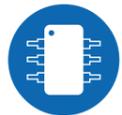
Aerzen High Vacuum boosters



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 129,5 cfm to 57.092 cfm is covered. The pressure ranges from 10⁻³ torr up to approx. 150 torr.

* Available in GLa-GLb version with horizontal flow

TOP 3 INDUSTRIES



Electrical Industry
Transformer oil purification



Food Industry
Thermoforming Modified
Atmosphere Packaging
Machines (MAP)



Other Industries
Liquefied Natural Gas (LNG)

GMa 11.3 HV



GLa 13.f7 HV



GMb 16.13 HV



		GMa 10.0 HV	GMa 10.1 HV	GMa 10.2 HV	GMa 11.3 HV	GMa 11.4 HV	GMa 12.5 HV
Nominal pumping speed	cfm	129	176	265	353	530	706
Δp standard motor power*	torr	97	105	97	105	97	97
Standard motor power	Hp	1	1,5	2	3	4	5
Motor speed	rpm	3600	3600	3600	3600	3600	3600
Dimensions	L x W x H in	30,7x13,1x10,4	32,1x13,1x10,4	36,7x13,1x10,4	37,4x15,4x12,6	43,3x15,4x12,6	44x15,4x12,6
Total weight	lbs Bareshaft	209	231	275	331	397	507

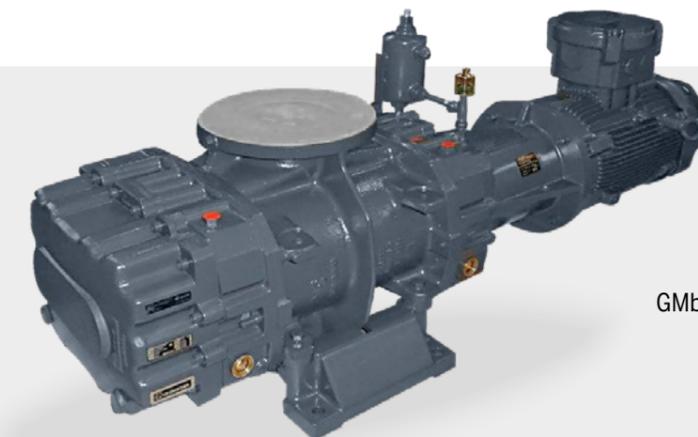
* Variable according to the installed motor power.

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
1000	1412	2030	2766	3943	5297	5768	6886	11080
97	82	67	60	60	60	56	56	26
7	10	15	15	20	25	25	29,5	40
3600	3600	3600	3600	3600	3600	1800	1800	1800
50,7x19,7x14,2	50,2x22,4x15,7	61,4x22,4x15,7	63,2x25,7x19,7	64,1x31,5x24,8	71,4x31,5x24,8	80,2x35,8x28	86,8x35,8x28	95,3x36,6x39,4
650	760	1069	1279	1697	1852	2976	3086	5070

HV Special Series

High Vacuum pumps for ATEX environments

The HV Series vacuum pumps have been approved according to EU directive 2014/34 and certified for ATEX zones 0 (internally), temperature class T3 (392° F). Certified for zone 1 externally, class of temperature T4 (275° F).



GMb 14.9 Ex

HV/BP - VFD Series

Pumps for high vacuum with bypass valve or variable frequency drive



Pumps for high vacuum 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 0,015 torr. The bypass valve allows to start the high vacuum pump at the same time as the backing pump, protecting the high vacuum pump from any operation at high overpressure.



Variable Frequency Drive

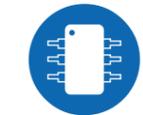
Pumps for high vacuum equipped with inverter offer the following advantages:

- high performance (increased capacity),
- flexible use,
- competitive costs,
- low power consumption,
- possibility of retrofit on already existing plants.

			GMa 11.3 HV/BP	GMa 11.4 HV/BP	GMa 12.5 HV/BP
Nominal pumping speed	cfm		353	518	706
Ultimate pressure (abs)	torr		≤ 0,015	≤ 0,015	≤ 0,015
Motor power	Hp		3	4	5
Motor speed	rpm		3600	3600	3600
Noise level	dB(A)		72	72	73
Dimensions	L x W x H	in	37,6x16,5x17,6	43,2x17,4x17,6	43,6x18,2x19,5
Total weight	lbs		405	416	542

GMa 12.6 HV/BP	GMa 13.f7 HV/BP	GMa 13.8 HV/BP
1000	1412	2012
≤ 0,015	≤ 0,015	≤ 0,015
7	10	15
3600	3600	3600
73	76	76
50,3x19,5x20,1	50,1x21,7x24,9	62x22,2x24,9
699	904	1159

TOP 3 INDUSTRIES



Electrical Industry
Transformer oil purification



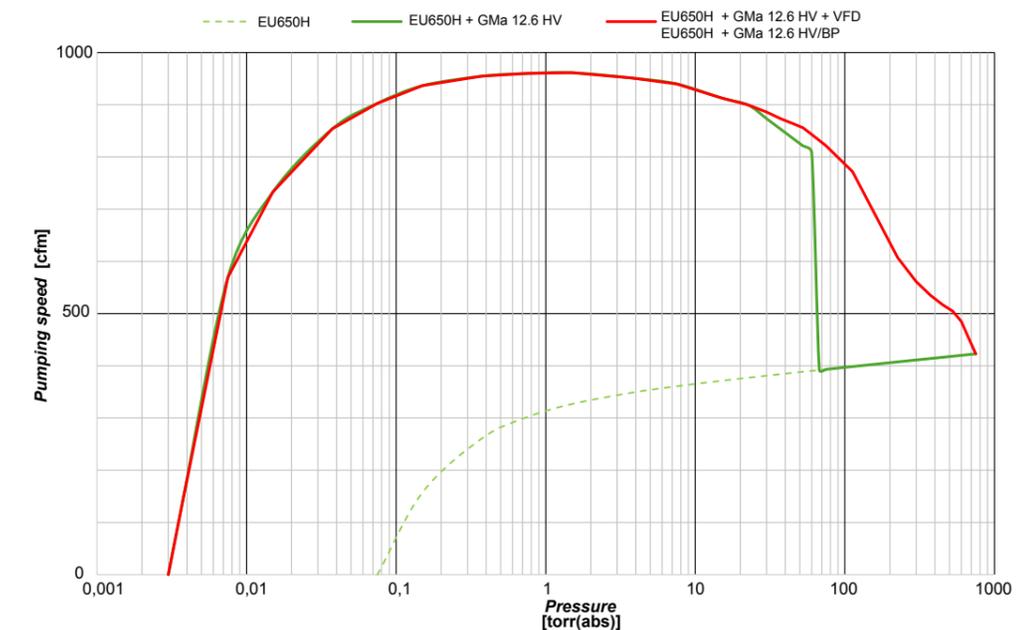
Food Industry
Thermoforming Modified Atmosphere Packaging Machines (MAP)



Other Industries
Heat treatments



GMa 13.f7 HV/BP



VD Series

Compact single stage dry vacuum pumps



The VD Series is formed by dry vane vacuum pumps extremely compact and light thanks to their monobloc design resulting in very quiet operation and vibration free mounting. They can be supplied complete with inlet and exhaust filters. A special vacuum tight version is available for gas analyser equipment.



VD 3



VD 40

Dry vane vacuum technology

The dry vane vacuum pumps are 100% oil free (eco-friendly), easy to plug in and ready to work thanks to the vacuum regulation valve and the integrated suction filter.

Other features:

- Low maintenance costs
- Reliability
- Compact design
- Continuous operation from 112,5 torr up to 675 torr

TOP 3 INDUSTRIES



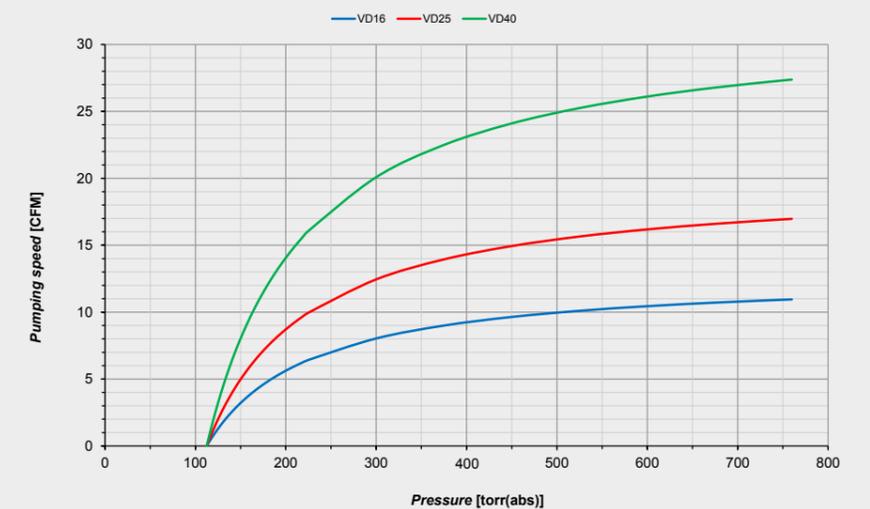
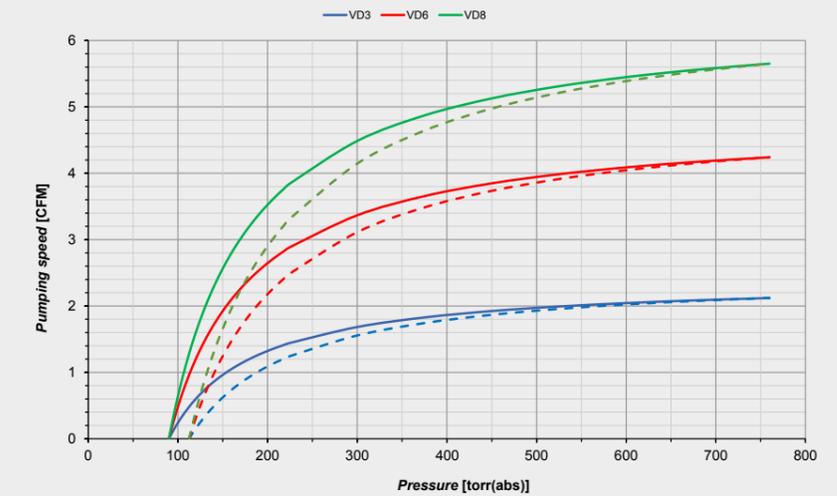
Food Industry
Flow pack



Packaging, handling & plastics
Pick and place



Other Industries
Gas analyzers



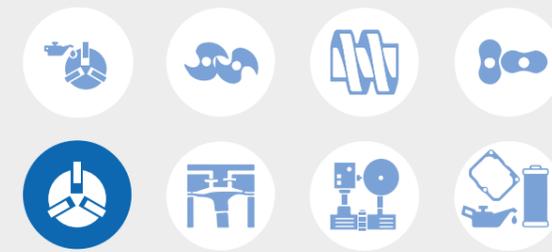
		VD 3	VD 6	VD 8	VD 16
Nominal pumping speed	cfm	2,1	4,2	5,7	11,2
Ultimate pressure (abs)	torr	≤112,5 (≤90*)	≤112,5 (≤90*)	≤112,5 (≤90*)	≤112,5
Motor power	Hp	0,2	0,4	0,3	0,9
Motor speed	rpm	3600	3600	3600	1800
Dimensions	L x W x H in	7,9x4,3x4,9	9,4x6,2x4,9	9,8x6,2x4,9	18x9,4x9
Total weight	lbs	11	15,4	17,6	55,1

	VD 25	VD 40
Nominal pumping speed	17,7	28,3
Ultimate pressure (abs)	≤112,5	≤112,5
Motor power	1,2	2
Motor speed	1800	1800
Dimensions	20,7x10,1x10,2	22,8x10,1x10,2
Total weight	72,8	79,4

* Vacuum tight version

CD Series

Single stage dry
vacuum compressors



The CD Series is formed by dry vane compressors extremely compact and light thanks to their monobloc design resulting in very quiet operation and vibration free mounting. They can be supplied complete with inlet and exhaust filters. A special vacuum tight version is available for gas analyser equipment.

CD 8



CD 25



Dry vane technology

The dry vane compressors are 100% oil free (eco-friendly), easy to plug in and ready to work thanks to the pressure regulation valve and the integrated suction filter.

Other features:

- Low maintenance costs
- Reliability
- Compact design
- Continuous operation up to 0,6 PSIG

TOP 3 INDUSTRIES



Food Industry
Water treatment



Packaging, handling & plastics
Pneumatic conveying systems

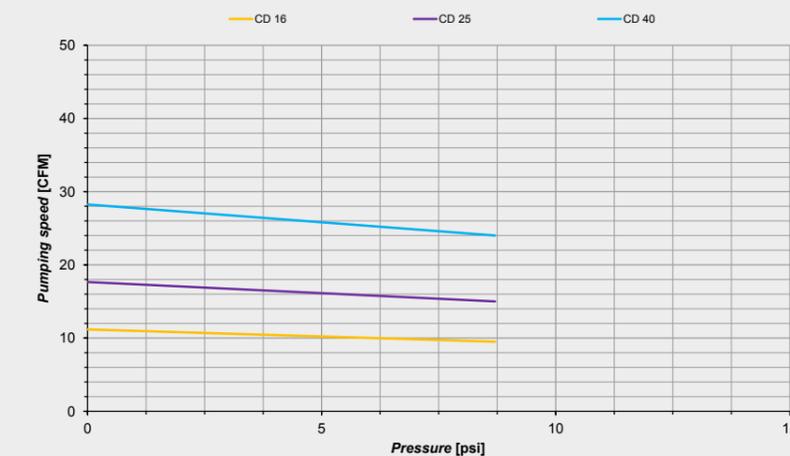
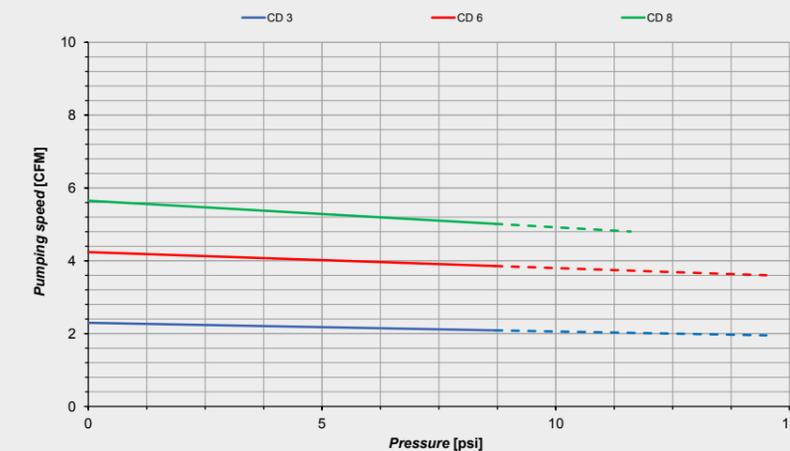


Other Industries
Water treatment

		CD 3		CD 6		CD 8		CD 16	
		~1	~3	~1	~3	~1	~3	~1	~3
Nominal pumping speed	cfm	2,3		4,2		5,7		11,2	
Ultimate pressure (rel)	PSIG	+14,5		+14,5		+36,2		+31	
Motor power	Hp	0,2		0,5		0,47		0,94	
Motor speed	rpm	3600		3600		3600		1800	
Dimensions	L x W x H in	9x6x6,8		9,4x6x6,8		9,8x6,1x6,8		18x9,4x9	
Total weight	lbs	10,8		15,9		17,6		55,1	

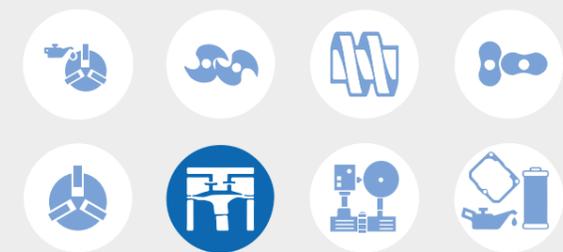
* Vacuum tight version

		CD 25		CD 40	
		~1	~3	~1	~3
		17,7		28,3	
		+31		+31	
		1,2		2	
		1800		1800	
		20,7x10,1x10,2		22,8x10,1x10,2	
		72,8		79,4	



MICRO Series

Diaphragm vacuum pumps
and compressors



Diaphragm pumps of "M41 and M71 Series" are completely oil free.

They can be used either to create vacuum or pressure.

The "M41 Series" pumps have a Ryton®-made pump body, diaphragm and gasket are made of VITON, EPDM or PTFE. The "M71 Series" pumps have pump body made of galvanized anticorodal aluminium, diaphragms and gaskets can be made of EPDM or VITON. All the pumps are available either with single or double-head to be used either in parallel or in series. The "M41 Series" pumps can also be supplied with three or four heads to increase their capacity.

TOP 3 INDUSTRIES



Food Industry
Vacuum Packaging Machines



Packaging, handling & plastics
Pick and place



Other Industries
Gas analyzers



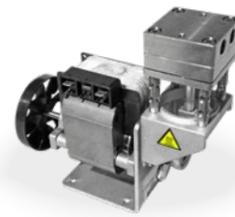
M41BX AC04



M41BX DC53



M71BX AC08



M41S AC04 HT



M41S AC04



M71S AC05



M71S DC54



M71BX DC55



EMMEBOX

		M41S AC04 HT		M41S AC04**		M41S DC52		M71S AC05		M71S DC54	
		50 Hz		50 Hz	60 Hz			50 Hz	60 Hz		
Nominal capacity	US gal/min	1,8	2,1	2,5	2,1	7,9	9,5	7,9			
Max. relative pressure	PSIG	29	29		36,3	10,2		10,2			
Max. vacuum	torr	135	150		150	75		75			
Voltage	V	AC	230	230	110-230	-	230	110-230	-		
		DC	-	-	-	12	24	-	-	12	24
Motor power	Hp	80	80	96	8	127	147	40			
Total weight	lbs	4			1,3	4,6		4,2			

* Combined version vacuum and pressure

** Available in EMMEBOX version too

		M41BX AC04		M41BX DC53		M71BX AC08			M71BX DC55	
		50 Hz 60 Hz				50Hz 1 ~	60Hz 1 ~	50Hz 3 ~		
Nominal capacity	US gal/min	Series	2,1	2,2	8,7	10,3	8,7	8,7		
		Parallel	4,2	4,5	16,4	19	16,4	16,4		
Max. relative pressure	PSIG	Series	43,5	43,5	26,1			26,1		
		Parallel	29	29	11,6			11,6		
Max. vacuum	torr	Series	30 (45*)	30 (45*)	11,3			11,3		
		Parallel	150 (173*)	150 (173*)	75			75		
Voltage	V	AC	230	110-230	-	230	110-230	230-400	-	-
		DC	-	-	12	24	-	-	-	12
Motor power	Hp	80	96	29	188	214	188	80		
Total weight	lbs	3,5		2,6	7,1	6,8	6,8	6		

Special series HT with body and valve made of AISI 316. Max. temperature of the pumped medium up to 392° F.

GVK Series

Compact vacuum systems



Compact vacuum systems have been designed for those customers who need to couple vane vacuum pumps with pumps for high vacuum. This solution allows them to reach higher nominal capacities with higher ultimate pressure (up to 5×10^{-3} torr).

		GVK 11.3 S300 H	GVK 11.4 S300 H	GVK 12.5 S300 H
Pump type		GMa11.3HV	GMa11.4HV	GMa12.5HV
		EU300 H	EU300 H	EU300 H
Nominal pumping speed	cfm	353	530	706
Ultimate pressure (abs)	torr	$\leq 5 \times 10^{-3}$	$\leq 5 \times 10^{-3}$	$\leq 5 \times 10^{-3}$
		$\leq 1,5 \times 10^{-2}$	$\leq 1,5 \times 10^{-2}$	$\leq 1,5 \times 10^{-2}$
Motor power	Hp	3+10	4+10	5+10
Noise level	dB(A)	76	76	76
Dimensions	L x W x H in	39,4x26,9x45,6	39,4x26,9x45,6	44x26,9x47,2
Total weight	lbs	915	981	1091

*Dimensions subject to variations depending on the type of motor.

1* Gas ballast closed

2* Gas ballast open

GVK 12.5 S300 H



GVK 12.6 S300 H	GVK 13.f7 S650 H	GV 13.8 S650 H
GMa12.6HV	GMa13.f7HV	GMa13.8HV
EU300 H	EU650 H	EU650 H
989	1412	2048
$\leq 5 \times 10^{-3}$	$\leq 5 \times 10^{-3}$	$\leq 5 \times 10^{-3}$
$\leq 1,5 \times 10^{-2}$	$\leq 1,5 \times 10^{-2}$	$\leq 1,5 \times 10^{-2}$
7+10	10+25	15+25
76	80	80
50,7x26,9x47,2	57,1x39,4x60,8	61,9x39,4x60,8
1235	2414	2722



GVK 13.f7 S650 H

Systems with dry screw pumps are also available in combination with pumps for high vacuum. Special versions with final vacuum up to 5×10^{-4} torr.

Designed to offer the customer a lot of advantages

The compact design also simplifies the configuration with different types of accessories such as air filters, filter water traps, inverter, control panels and solenoid valves for gas ballast management.

- Small footprint
- Easy installation thanks to the reduction in size and weight
- Easy access to all system components
- Efficiency and ergonomics during maintenance phases, reducing time and costs
- Improved performance thanks to combination with EU H or HWT series pumps

TOP 3 INDUSTRIES



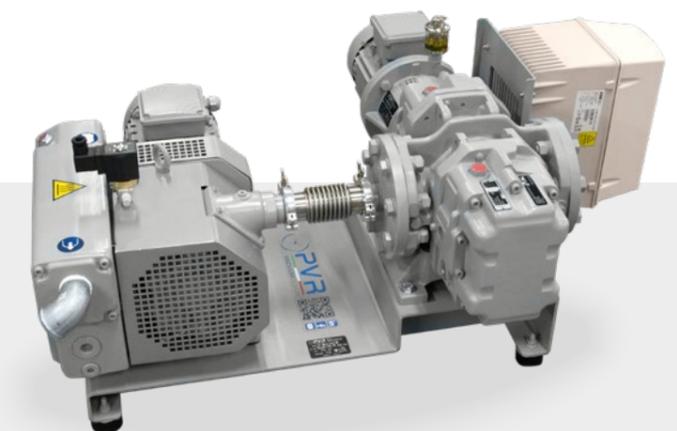
Electrical Industry
Transformer oil purification



Food Industry
Thermoforming Modified Atmosphere Packaging Machines (MAP)



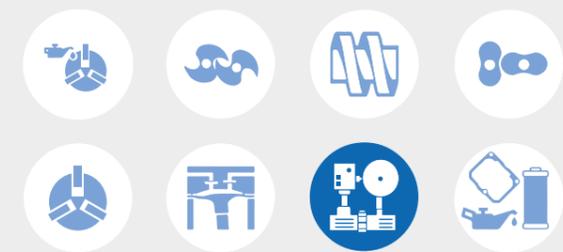
Other Industries
Heat treatments



GVKZ 10.1 VFD S65

CSKZ/CDKZ/CTKZ Series

Compact central vacuum systems



PVR offers a wide range of central vacuum systems including vessel and either one, two or three vacuum pumps. COMPACT AND MODULAR our central vacuum systems are offered with horizontal or vertical vessel, to optimize the footprint. Customized central vacuum systems with different characteristics than those shown in the standard catalogue are available on request.

Single pump system

		CSKZ 100-15	CSKZ 100-35	CSKZ 500-45	CSKZ 500-65	CSKZ 500-105	CSKZ 500-160
Nominal pumping speed	cfm	12,4	24,7	34,1	48,9	74,2	107,1
Ultimate pressure (abs)	torr	PVL - EU	≤ 0,375	≤ 0,375	≤ 0,375	≤ 0,375	≤ 0,375
		PVL B - EU B	≤ 15	≤ 15	≤ 7,5	≤ 7,5	≤ 7,5
Tank capacity	US gal	26,4	26,4	132,1	132,1	132,1	132,1
Motor power	Hp	1	1,47	2	3	4	5,36

OUTER INVERTER

CSKZ 500-205	CSKZ 500-300
146	211,9
≤ 0,375	≤ 0,375
≤ 7,5	≤ 7,5
132,1	132,1
7,37	10



CSKZ500-300 HWT VFD

Available Technologies



Double pump system

		CDKZ 500-15	CDKZ 500-35	CDKZ 500-45	CDKZ 500-65	CDKZ 500-105	CDKZ 500-160
Nominal pumping speed	cfm	2x12,4	2x24,7	2x34,1	2x48,9	2x74,2	2x107,1
Ultimate pressure (abs)	torr	PVL - EU	≤ 0,375	≤ 0,375	≤ 0,375	≤ 0,375	≤ 0,375
		PVL B - EU B	≤ 15	≤ 15	≤ 7,5	≤ 7,5	≤ 7,5
Tank capacity	US gal	132,1	132,1	132,1	132,1	132,1	132,1
Motor power	Hp	2,7x1	2,7x1,47	2,7x2	2,7x3	2,7x4	2,7x5,36

CDKZ 1000-205	CDKZ 1000-300
2x146	2x211,9
≤ 0,375	≤ 0,375
≤ 7,5	≤ 7,5
264,2	264,2
2,7x7,37	2,7x10



CDKZ 500-35



CDKZ 200-8V

Compact and modular vacuum systems

PVR designs and manufactures compact and modular vacuum systems capable of offering a series of qualified solutions for the most demanding customers of the industrial sector, offering a rapid delivery time and an extremely reliable product.

- Advanced control and supervision logic
- Touch-screen operator panel
- Possibility of remote controls and signals
- Possibility of connections to corporate networks, VPNs and cloud
- Data transmission with standard protocol (ModBus TCP/IP, RTU, ...)
- Compact systems with integrated tank / bypass / electric control panel

TOP 3 INDUSTRIES



Packaging, handling & plastics
Pick and place



Chemical & pharmaceutical industry
Vacuum mixers

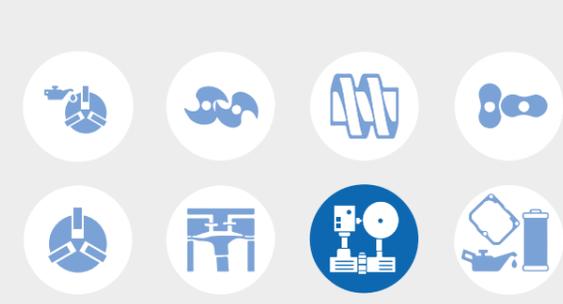


Other Industries
Extrusion plastic machines



CSKZ 500-100D

Customized vacuum systems



PVR offers the possibility of manufacturing customized vacuum systems according to the customers' needs. Thanks to our innovative engineering department, it is possible to design vacuum systems with different features from the standard ones with tank, switchboard, and HMI tailored to the customer's request.

ALL INDUSTRIES AVAILABLE



Food Industry



Chemical & pharmaceutical Industry



Packaging, handling & plastics



Electrical Industry



Green transition



Other Industries



SD350

SD350 SYSTEM WITH CONDENSER AND AISI TANK FOR CONDENSATE RECOVERY

SOPHISTICATED CONTROL PANELS



PDKZ1000

INVERTER INTEGRATED IN THE ELECTRIC PANEL



PDKZ500



SYSTEM WITH SOUNDPROOF CABIN

PTKZ 300DP:Q



WIRING AND SETTING AT PVR

CMKV1000-300D:Q



CMKV1000

MODULAR SYSTEM PREPARED FOR FUTURE CONNECTIONS, COMPLETE WITH TANK AND ELECTRIC CONTROL PANEL WITH INTEGRATED INVERTER

PDKZ300



- We provide commissioning services, on-site repairs and overhauls, in addition to specific training for the customer's operating team.

- Addition of HMIs, inverters, tanks, specific filters and electrical panels tailored to the customer's requirements.

GC - GV Series

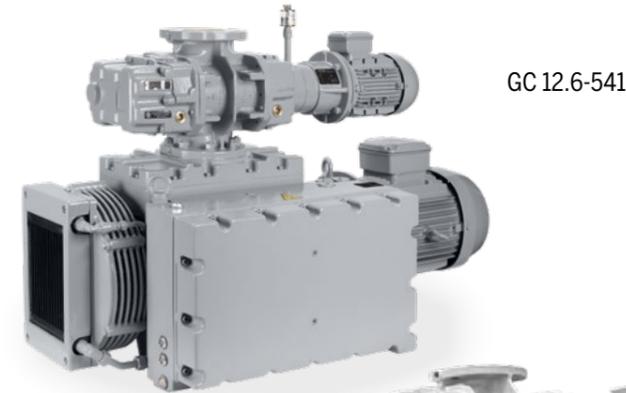
Compact vacuum systems



GC Series

Given the proven performance and reliability of our oil lubricated vacuum pumps and HV pumps for high vacuum, we have designed compact pumping groups that conveniently combine high performance and a reduced footprint. GC vacuum systems can be supplied with an electric control panel compliant with EC standards, inlet filters and process control accessories. The systems with bypass valve (GC-BP) allow the high vacuum pumps to be started at atmospheric pressure. The GC systems are also available in the version regulated by VFD (Variable Frequency Drive).

		GC-GV 11.3-401	GC-GV 11.4-541	GC-GV 12.5-401	GC-GV 12.6-541
Pump type	(1)	GMa11.3HV	GMa11.4HV	GMa12.5HV	GMa12.6HV
	(2)	PVL401	PVL541	PVL401	PVL541
Nominal pumping speed	cfm	319	462,6	606,2	847,6
Ultimate pressure (abs)	torr	$\leq 1,5 \times 10^{-2}$			
Motor power	Hp	2,9+14,7	4+20	5,36+14,7	7,3+20
Noise level	dB(A)	80	80	80	81
Total weight	lbs	1045	1183,9	1298,5	1415,4



Available Technologies

TOP 3 INDUSTRIES

- Electrical Industry**
Transformer oil purification
- Food Industry**
Thermoforming Modified Atmosphere Packaging Machines (MAP)
- Other Industries**
Heat treatments

GV Series

Vacuum systems are designed for customers who need to couple primary vacuum pumps to high vacuum pumps. This solution allows the system to achieve high suction capacity and a high degree of vacuum within a very small footprint. Technical features of the system can be designed according to the customer requirements.

		GC-GV 12.6-650	GC-GV 13.f7-650	GC-GV 13.8-650	GC-GV 12.5BP-401	GC-GV 12.6BP-541
Pump type	(1)	GMa12.6HV	GMa13.f7HV	GMa13.8HV	GMa12.5HV/BP	GMa12.6HV/BP
	(2)	EU650M	EU650M	EU650M	PVL401	PVL541
Nominal pumping speed	cfm	1012,4	1412,6	2039,4	606,2	847,6
Ultimate pressure (abs)	torr	$\leq 1,5 \times 10^{-2}$ ($\leq 5,3 \times 10^{-3}$)*	$\leq 1,5 \times 10^{-2}$ ($\leq 5,3 \times 10^{-3}$)*	$\leq 1,5 \times 10^{-2}$ ($\leq 5,3 \times 10^{-3}$)*	$\leq 1,5 \times 10^{-2}$	$\leq 1,5 \times 10^{-2}$
Motor power	Hp	7,3+24,8	10+24,8	14,7+24,8	4+14,7	5,36+20
Noise level	dB(A)	78	79	80	80	81
Total weight	lbs	2063,5	2171,6	2511,1	1296,3	1490,3

(1) Pumps for high vacuum / (2) Vane vacuum pump / *Value reached in combination with our H pump series.



PLUG & PUMP Series

Plug & Pump vacuum systems



HUMAN - MACHINE INTERFACE HMI



MUCH QUIETER

VARIABLE FREQUENCY DRIVE



Plug & Pump version is available for every vacuum system listed in the catalogue.

Plug & Pump is the new series of compact vacuum systems where pumps, devices, and electrical components are housed in a clean, soundproof case. Simply **plug in** the power supply, **connect** the vacuum to your system and it is ready to use. Plug & Pump systems are supplied with a CE-compliant electrical control panel.

The human-machine interface (HMI) ensures:

- **easy setting** of system characteristics,
- possibility of remote control of all devices within the company network or externally via VPN,
- remote access for software **maintenance and verification** of system status,
- **storage** and history of events and system status,
- management of **scheduled maintenance**.

TOP 3 INDUSTRIES



Food Industry
Thermoforming Modified Atmosphere Packaging Machines (MAP)



Electrical Industry
Transformer oil purification



Other Industries
Oven heat treatments

Sample configuration

		Plug & Pump 13.F7-S650H
Pump type	(1)	GMa13.7fHV
	(2)	EU650M
Nominal pumping speed	cfm	1412,6
Ultimate pressure (abs)	torr	$\leq 1,5 \times 10^{-2}$ ($\leq 5,3 \times 10^{-3}$)
Motor power	Hp	10+24,8
Noise level	dB(A)	75
Total weight	lbs	2645,5

(1) Pump for high vacuum / (2) Vane vacuum pump

Spare Parts and Accessories



Rotant VF®

Professional lubricants

A wide range of selected and qualified lubricants for every application need.



PVR Maintenance kits and original MULTIBRAND spare parts

Available minor and major maintenance kits that allow you to carry out timely and adequate interventions.



Fluid characteristics

- Recommended use
- Accepted use
- Not recommended use

Description	Type	General Purpose	High temperature	Low temperature	Chemical Resistant	Oxidation Resistant	O ₂ Compatible	High Vacuum	Food Grade	H ₂ S Compliance
Rotant VF 200 series	Mineral lubricating fluid	●					●	●	●	●
Rotant VF 300 series	PAO base lubricating fluid	●	●		●	●	●	●	●	
Rotant VF 400 H1 series	Food grade lubricating fluid	●	●		●	●	●	●	●	
Rotant VF 500 series	Lubricating fluid based on diester	●	●		●	●	●	●		
Rotant VF KEMY 600 series	Engineered lubricating fluid	●			●	●	●	●		●
Rotant VF PFPE 700 series	PFPE base lubricating fluid				●	●	●			
Rotant VF 800 series	Lubricating fluid for claw pumps	●								
Rotant VF 3010 series	PAO base lubricating fluid for low temperatures	●		●	●	●	●	●	●	

Spare Parts and Accessories



Filter water traps

The filter water trap is recommended for applications where the pump sucks small quantities of liquid/liquids.

Silencers

Silencers are available to be mounted at the discharge of our dry claw, dry vane and screw vacuum pumps.



Air filter

PVR supplies vacuum-tight dust filters with pressed steel housing and one paper treated cartridge with 5 micron filtration degree. Available stainless steel cartridges with 60 micron filtration degree and polyester cartridges with 3 micron filtration degree.



Safety accessories

Pressure switches, level switches, temperature switches and pressure gauges to check and monitor the correct functioning of PVR vacuum pumps and systems.



Oil separator

The oil separator filters effectively eliminate oil mists at the discharge of the PHV K pumps, using a double filter system to make the work environment free from pollutants.

Vacuum Tester Digital vacuum gauge

PVR Vacuum Tester is a portable battery-powered solution with a Piezoresistive sensor and provides a wide range of pressure measurements from 0 to 760 torr.





Provide trusted & advanced technologies



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