

Rotary Vane Pumps, ILMVAC®

The rotary vane pumps of the P-Z series from ILMVAC are ideally suited for use in the laboratory.

Advantages of the ILMVAC rotary vane pumps for the users:

- high water vapor tolerance
- compact, light-weight construction
- low noise emission
- high reliability
- no oil contamination of the chamber by migration or suck-back
- high pumping speed
- free of non-ferrous metals
- low, ultimate pressures are reached quickly
- direct drive with elastic coupling
- robust, functional construction
- long service intervals
- low energy consumption
- easy reassembly when servicing
- permanent operation possible
- simply attach and switch on

Ranges of application:

- vacuum drying
- distillation
- spectral analysis
- freeze drying
- vacuum concentration
- and everywhere else a vacuum is required

Scope of delivery:

rotary vane vacuum pump ready-to-use with oil charging, centering ring, clamping ring, motor protection switch and main power switch. Special oils available on request.

Mains cable and plug are included.

On request:

Helium-tight models or other voltages.



① Two stage rotary vane pumps

Ultimate pressure without gas ballast total 2×10^{-3} mbar

Type	Suction rate 50/60 Hz m ³ /h	Wght kg	W x D x H mm	Order No.
PK 2 DC	1.8/2.2	8.0	330×165×170	56 92 32010
P 4 Z	4.6/5.5	17.5	415×150×235	56 92 32099
P 6 Z	5.8/6.6	19.5	430×150×235	56 92 32100
P 8 Z	7.2/8.6	21.5	445×150×235	56 92 32101
P 12 Z	11.0/13.2	35.0	540×170×260	10 92 42314
P 17 Z	16.0/19.2	37.0	540×170×260	10 92 42315
P 23 Z	21.0/25.2	38.0	540×170×260	10 92 42316

Accessories for rotary vane pumps

Article	for type	Order No.
Oil mist filter OME 10/16	PK 2 DC, P 4 Z, P 6 Z	56 92 70010
oil mist filter OME 10/25	P 8 Z, P 12 Z, P 17 Z	56 92 70011
Condensate separator PT 16	PK 2 DC, P 4 Z, P 6 Z	56 92 70144
Condensate separator PT 25	P 8 Z, P 12 Z, P 17 Z	56 92 70145
Active carbon filter AKF 10/16	PK 2 DC, P 4 Z, P 6 Z	56 92 70190
Active carbon filter AKF 10/25	P 8 Z, P 12 Z, P 17 Z	56 92 70191
Separator pressure side AKD 16	P 4 Z, P 6 Z	56 92 30883
Separator suction side AKS 16	P 4 Z, P 6 Z	56 92 30884
Separator pressure side AKD 25	P 8 Z, P 12 Z, P 17 Z	56 92 30885
Separator suction side AKS 25	P 8 Z, P 12 Z, P 17 Z	56 92 30886



Accessories

Article	Order No.
Connection kit 3, DN 16 KF	56 92 30001
Consisting of a 2-way ballcock DN 16, hose nozzle DN 16-12, external centering ring with O-ring, standard clamping ring DN 16, separator pressure side AKD and vacuum tubing 1.5 m	
Article	Order No.
Connection kit 4, DN 25 KF	56 92 30002
Consisting of a 2-way ballcock DN 25, hose nozzle DN 25-16, external centering ring with O-ring, standard clamping ring DN 25, separator pressure side AKD and vacuum tubing 1.5 m	
Article	Order No.
Main current oil filter OPF 40 M	56 92 70153
Complete with cartridge. For physical applications	
Article	Order No.
Main current oil filter OPF 40 C	56 92 70152
Complete with cartridge. For chemical applications	

Oils for rotary vane pumps

LABOVAC oils for rotary vane pumps are subject to continuous and careful quality control. Various oil specifications are needed to cover the range of vacuum applications. ILMVAC therefore offers five types of LABOVAC oil for optimum coverage of the entire spectrum.

LABOVAC-10: For all standard applications. Very low vapor pressure ($< 10^{-5}$ mbar). Low

② oil re-diffusion.

LABOVAC-11: Synthetic oil for high working temperatures, e.g. for the continuous pumping down of large amounts of gas at high intake pressures.

LABOVAC-12S: The oil with the lowest ultimate vacuum and backstreaming. Mineral based. Refined by an extensive molecular distillation process to remove all low boiling fractions.

LABOVAC-13: Perfluor-Polyether oil (PFPE) with medium values of vapor pressure and attainable ultimate partial pressure. Ideal for evacuating plants and tanks with oxygen and ozone as well as for etching processes in the semiconductor industry and micromechanics.

LABOVAC-14: Synthetic oil with low vapor pressure, high chemical stability and good demulsibility. This makes the oil particularly well suited for distillation, drying and freeze-drying processes.

Article	Ultimate pressure at 20°C mbar	Visc. at 40°C cST	Flash point 15°C	Density at °C g/ml	Order No.	PU Liter/ Pack
LABOVAC-10	10^{-5}	118	270	0.888	56 92 80122	1
LABOVAC-10	10^{-5}	118	270	0.888	56 92 80120	5
LABOVAC-10	10^{-5}	118	270	0.888	56 92 80123	10
LABOVAC-10	10^{-5}	118	270	0.888	56 92 80124	20
LABOVAC-10	10^{-5}	118	270	0.888	56 92 80119	200
LABOVAC-11	10^{-5}	110	260	0.960	56 92 80125	1
LABOVAC-11	10^{-5}	110	260	0.960	56 92 80126	10
LABOVAC-11	10^{-5}	110	260	0.960	56 92 80127	20
LABOVAC-12S	10^{-8}	94	260	0.886	56 92 80128	1
LABOVAC-12S	10^{-8}	94	260	0.886	56 92 80129	10
LABOVAC-12S	10^{-8}	94	260	0.886	56 92 80130	20
LABOVAC-13	10^{-6}	120	-	1.89	56 92 80131	1
LABOVAC-13	10^{-6}	120	-	1.89	56 92 80132	2
LABOVAC-13	10^{-6}	120	-	1.89	56 92 80133	5
LABOVAC-13	10^{-6}	120	-	1.89	56 92 80134	10
LABOVAC-14	$<10^{-6}$	47.9	257	0.918	56 92 80135	1
LABOVAC-14	$<10^{-6}$	47.9	257	0.918	56 92 80136	2
LABOVAC-14	$<10^{-6}$	47.9	257	0.918	56 92 80137	5
LABOVAC-14	$<10^{-6}$	47.9	257	0.918	56 92 80138	10



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