

ROTARY OIL VACUUM PUMPS

CE
97/23/EC

Orfe

ROTARY OIL VACUUM PUMPS



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Industrial standard

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Industrial standard

- robust industrial vacuum pumps
- most models can run 24/7
- the most commonly used vacuum pump technology in industry
- suitable for installing in a machine
- suitable for a central vacuum



Robust and reliable:

- proven rotary oil vacuum pump technology
- robust design
- high reliability
- only a few components that are subject to wear and tear
- easy maintenance
- combined versions available



Convenient service:

- service team
- most of the vacuum pumps in stock
- most of the service parts in stock
- substitute vacuum pumps available for rent upon outages
- phone support line

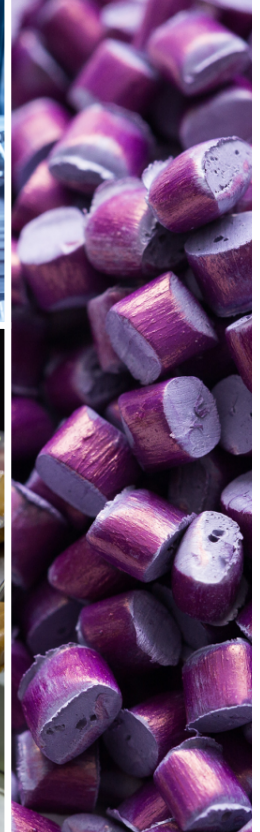
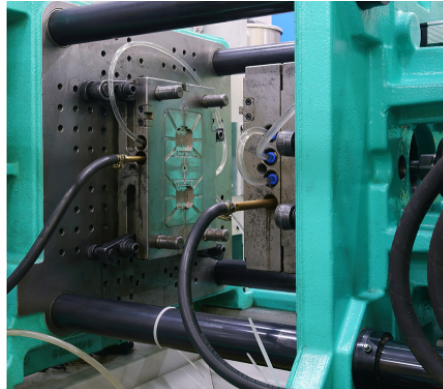


Universal usage

- extensive product line
- standardized vacuum pump series
- high vacuum in a single vacuum pump segment
- wide spectrum of accessories
- simple installation

Applications

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Food processing and packaging

- food packages, chamber packaging, continuous packaging, vacuum conservation, tumbling machines, filling machines

Automotive industry

- vacuum-drying of individual components, locating leaks using helium, vacuum fillers, vacuum exchanges

Injection molding machines

- air exhausts from injection molding machines, injection molding machine for plastic, injection molding machine for aluminum, rubber production, granulate transport

Vacuum fastening

- fastening impermeable materials, tweezer vacuum, underpressure source for manipulation robots, CNC machines

Electronics and other

- handling and production of electronics, PCB, hospitals, vacuums for laboratories, wood and paper production



Sales and service

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20 years of experience in the field

We have been supplying the Czech and Slovak market with top quality, highly reliable vacuum pumps and blowers since 1998. We are professionals in the area of designing and supplying vacuum pumps and implementing vacuum systems.



10,000 items in stock

We have a complete range of vacuum pumps of various types and sizes in stock. We also stock the most commonly worn parts and parts required for servicing and general repairs.



7 of the 10 largest companies in the Czech Republic

We work for 7 of the 10 largest companies in the Czech Republic. Our customers include large multinational corporations, but also medium and small enterprises and skilled designers and engineers. Let us help you succeed too



Warranty and post-warranty service

We provide warranty and post-warranty service for customers in the Czech Republic and Slovakia. We also carry out emergency and preventive general repairs. We have most of our service parts in our Jihlava warehouse. We provide contract and occasional service.



Rental shop

We have new and reconditioned vacuum pumps and blowers in stock. If you are not sure which type of vacuum pump is right for you, you can opt for a trial purchase. We also offer hire to prototype manufacturers.



Complete service

We offer complete services, from design to operational service. Operating parameters calculation. Proposal/design of suitable vacuum pumps Calculating energy intensity. Filtration, distribution and accessories.

Overview of the vacuum pumps

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Mini vacuum pumps

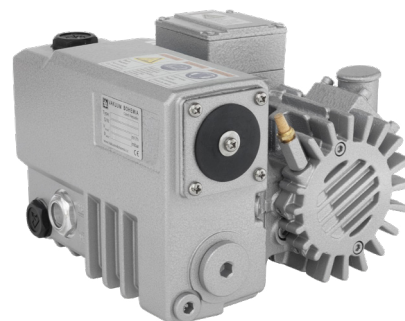
The smallest vacuum pumps are designed for sucking air out from small vacuum chambers or small volumes. Mini vacuum pumps are designed to be incorporated in other machines.



Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]
PA 0008 A	8	2	0,35

Compact vacuum pumps

Compact oil rotating vacuum pumps are ideal for machines or applications where it is only necessary to extract a small amount of gas.



Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]
PA 0010 K	10	2	0,3
PA 0016 K	16	2	0,55

Industrial standard

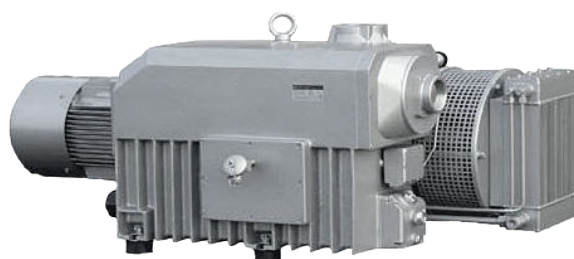
Standard rotary oil vacuum pumps are the most prominent type of vacuum pumps globally. They are suitable for a wide range of applications.



Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]
PA 0021 K	20	0,2	0,9
PA 0040 K	40	0,1	1,1
PA 0063 K	63	0,1	1,5
PA 0100 K	100	0,1	2,2
PA 0175 K	175	0,1	5,5
PA 0250 K	250	0,1	5,5
PA 0305 K	300	0,1	7,5

Slow-running vacuum pumps

Slow-running rotary oil vacuum pumps allow the suction of a large amount of gas and are often used as a central source of vacuum.



Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]
PA 0420 K	420	0,1	11
PA 0500 K	500	0,1	11
PA 0660 K	660	0,1	15
PA 0750 K	750	0,1	18,5

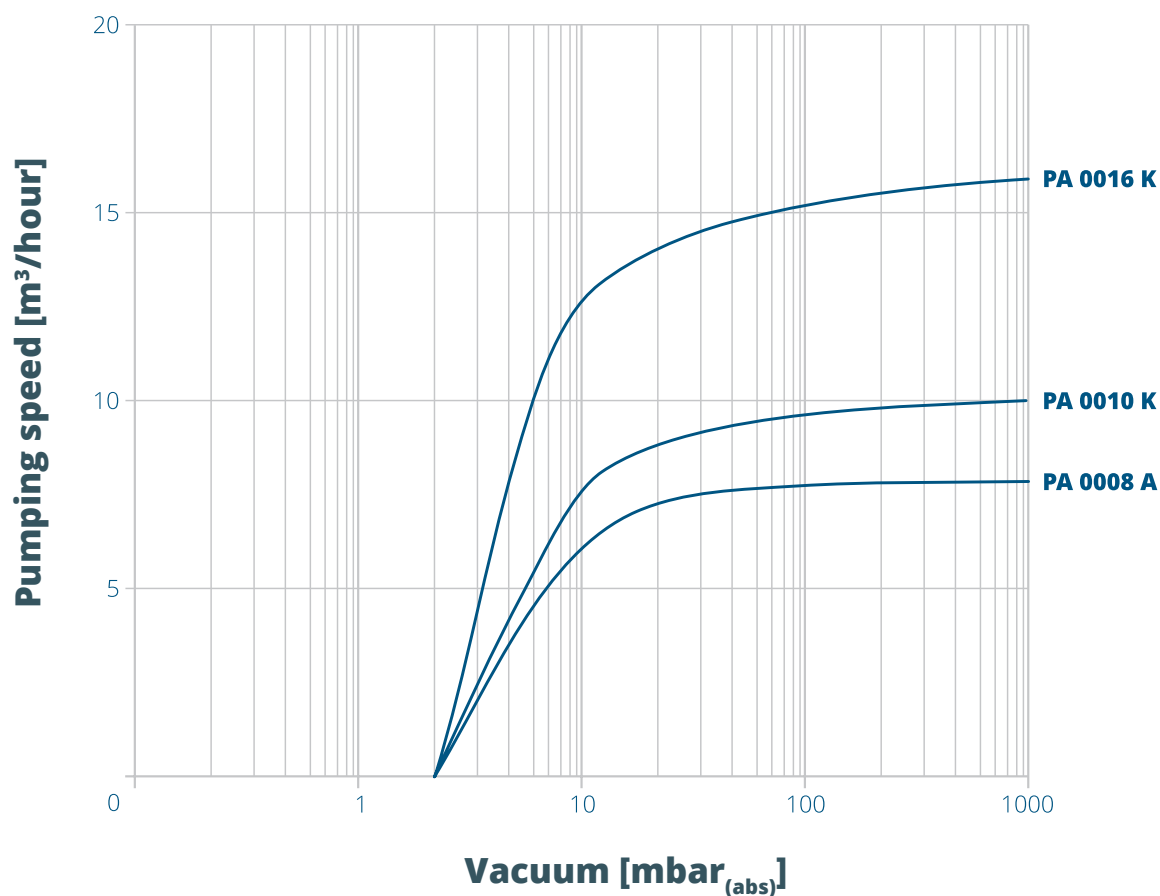
Mini and compact vacuum pumps

PA 0008 – PA 0016



Pumping characteristic

(8 m³/h - 16 m³/h)



Technical data

Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]	Noise level [dB]	Weight [kg]	Engine versions	Speed [rpm]
PA 0008 A	8	2	0,35	59	10	1 x 220 V-240 V	2900
PA 0010 K	10	2	0,3	59	16	1 phase or 3 phases	3000
PA 0016 K	16	2	0,55	60	18	1 phase or 3 phases	3000

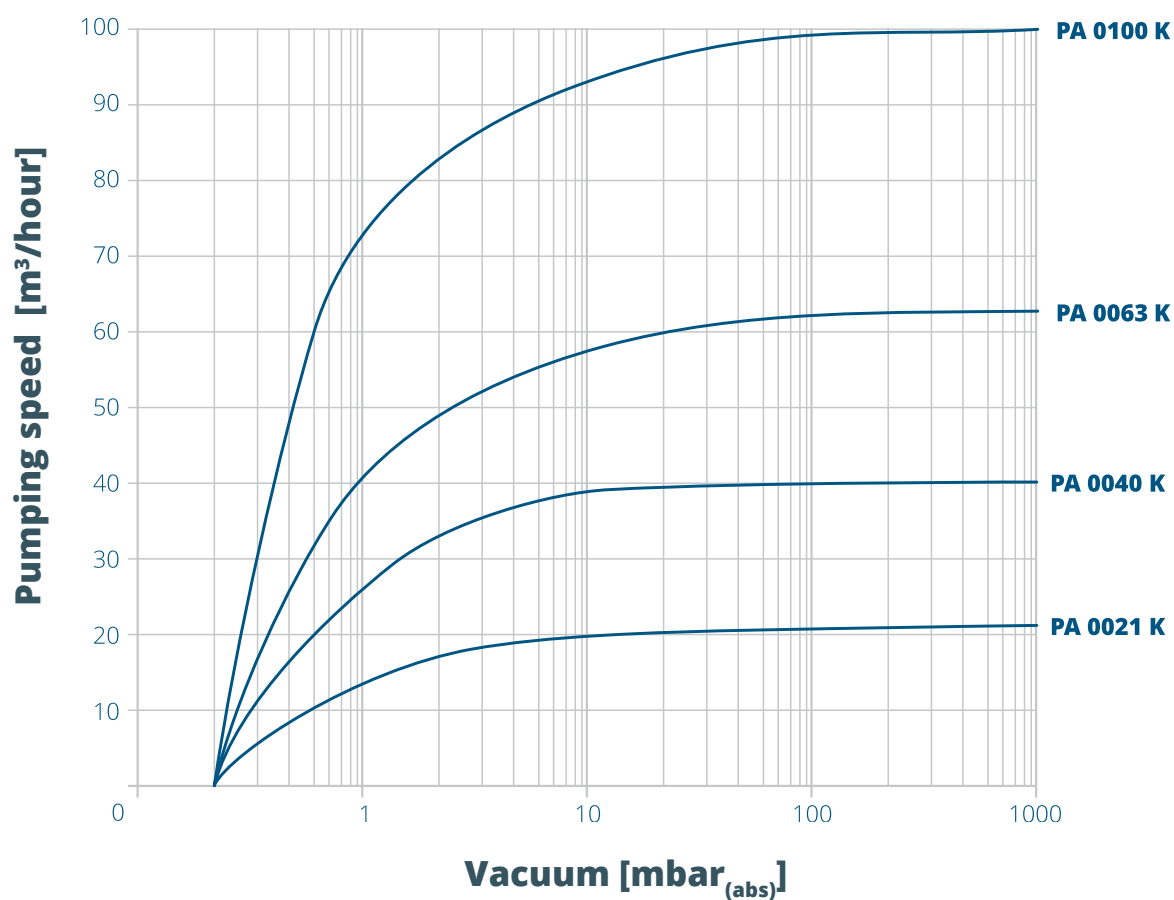
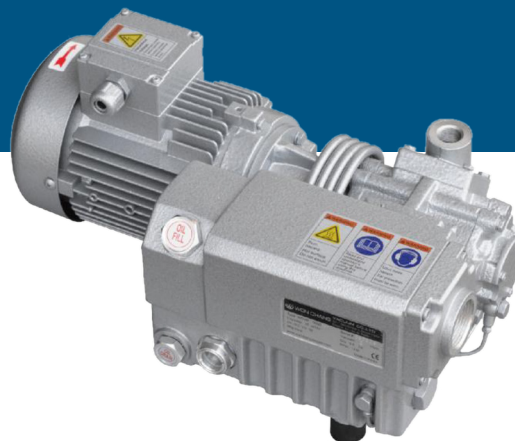
Industrial standard

PA 0021 – PA 0100



Pumping characteristic

(20 m³/h - 100 m³/h)

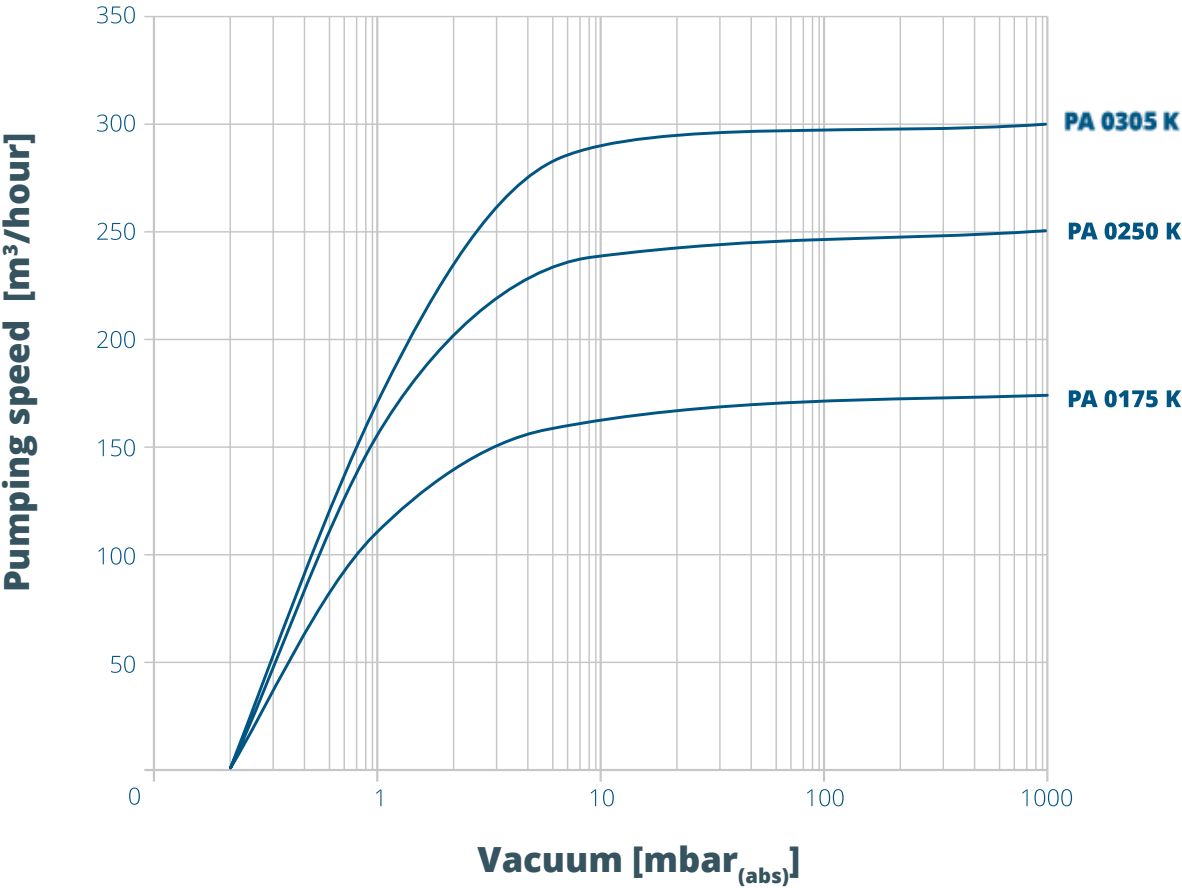


Technical data

Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]	Noise level [dB]	Weight [kg]	Engine versions	Speed [rpm]
PA 0021 K	20	0,5	0,9	60	20	1 phase or 3 phases	2870
PA 0040 K	40	0,1	1,1	64	53	3 phases	1450
PA 0063 K	63	0,1	1,5	65	64	3 phases	1450
PA 0100 K	100	0,1	2,2	65	75	3 phases	1450



Pumping characteristic
(175 m³/h - 300 m³/h)



Technical data

Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]	Noise level [dB]	Weight [kg]	Engine versions	Speed [rpm]
PA 0175 K	175	0,1	5,5	74	164	3 phases	1450
PA 0250 K	250	0,1	5,5	74	184	3 phases	1450
PA 0305 K	300	0,1	7,5	75	180	3 phases	1450

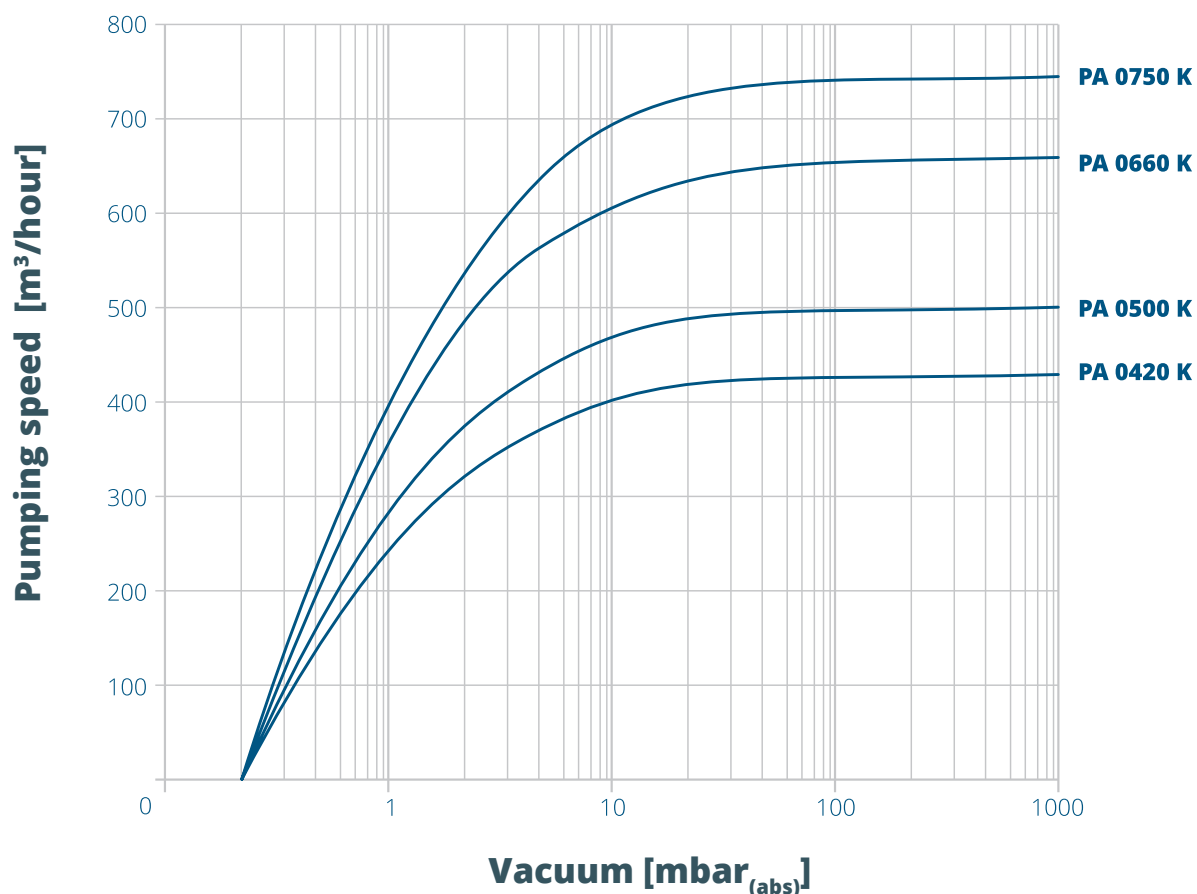
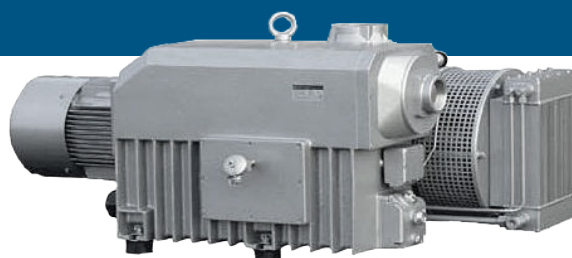
Slow-running vacuum pumps

PA 0420 – PA 0750



Pumping characteristic

(420 m³/h - 750 m³/h)

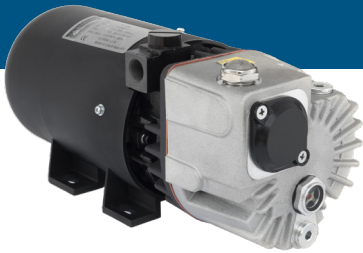


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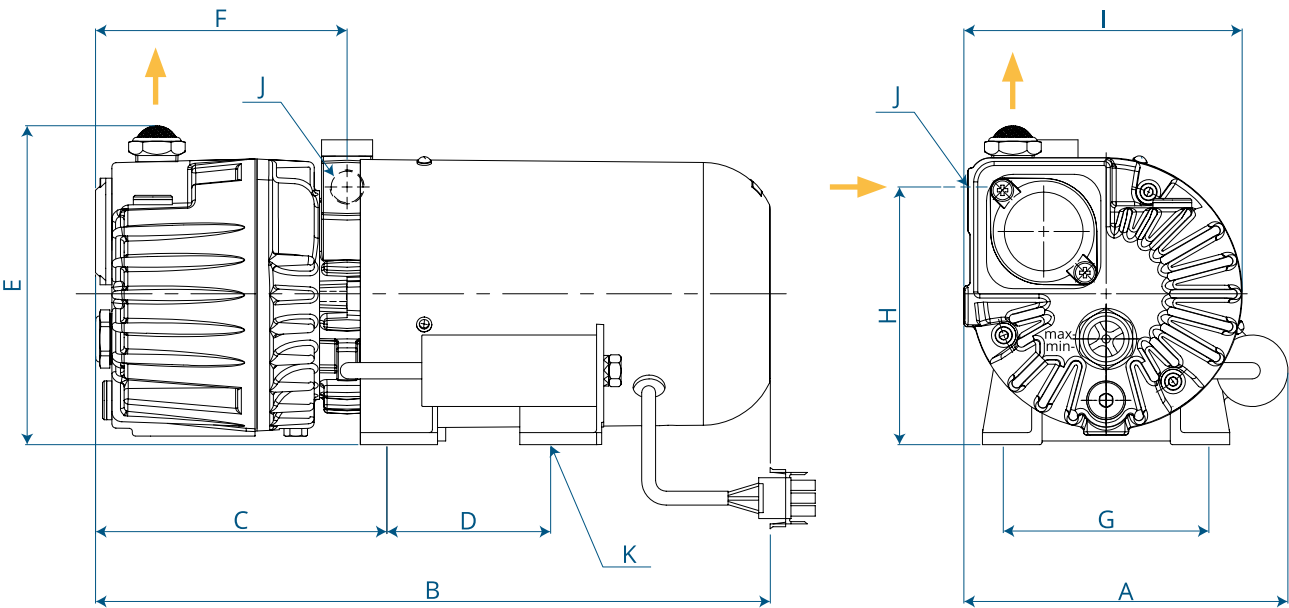
Model	Pumping speed [m³/hour]	Max. vacuum [mbar]	Output power [kW]	Noise level [dB]	Weight [kg]	Engine versions	Speed [rpm]
PA 0420 K	420	0,1	11	76	510	3 phases	960
PA 0500 K	500	0,1	11	77	550	3 phases	960
PA 0660 K	660	0,1	15	77	720	3 phases	960
PA 0750 K	750	0,1	18,5	79	530	3 phases	1450

Dimensions

Mini vacuum pumps PA 0008 A



Diagram



Dimensions in mm

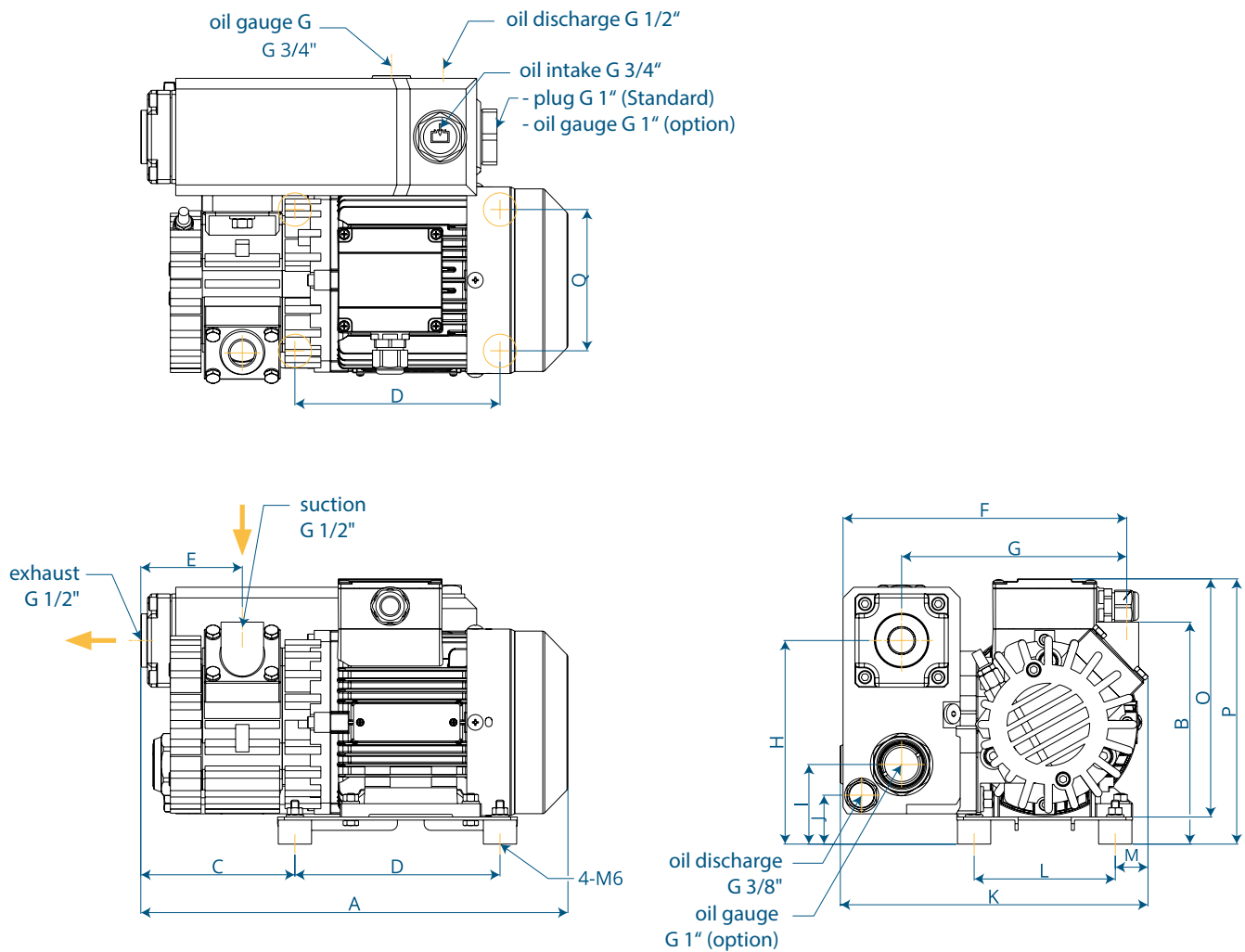
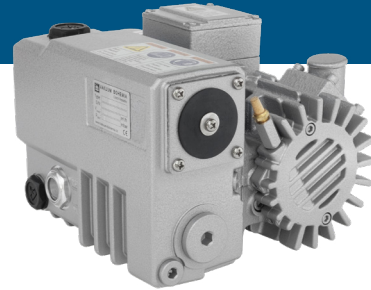
Model	A	B	C	D	E	F	G	H	I	J	K
PA 0008 A	159	334	142.5	80	156	123	100.5	126	137	G 3/8	Ø 8x4

Dimensions

Compact vacuum pumps PA 0010 K - PA 0016 K



Diagram



Dimensions in mm

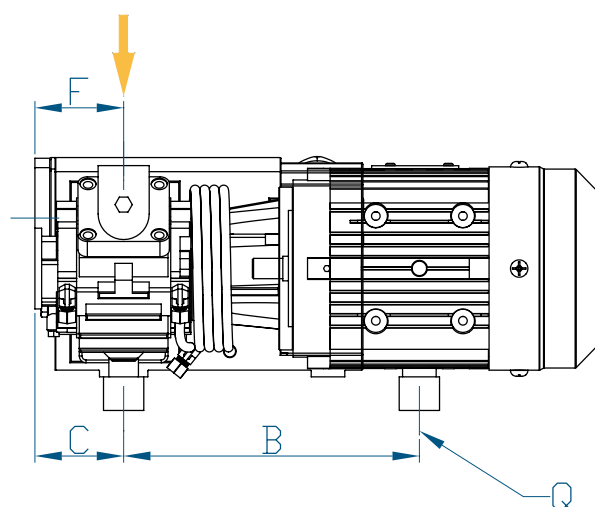
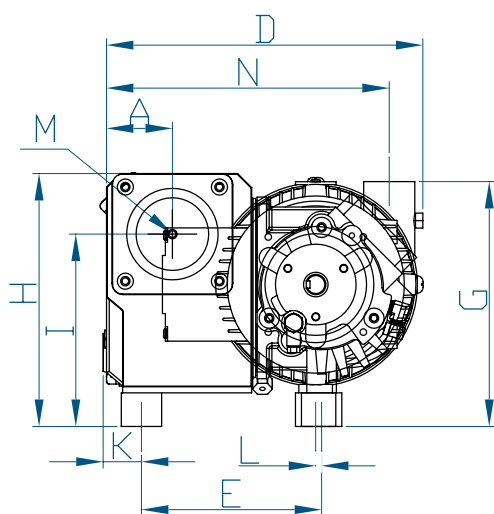
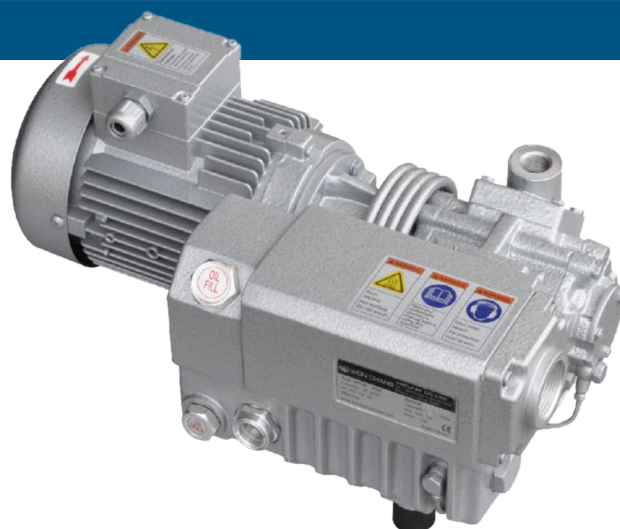
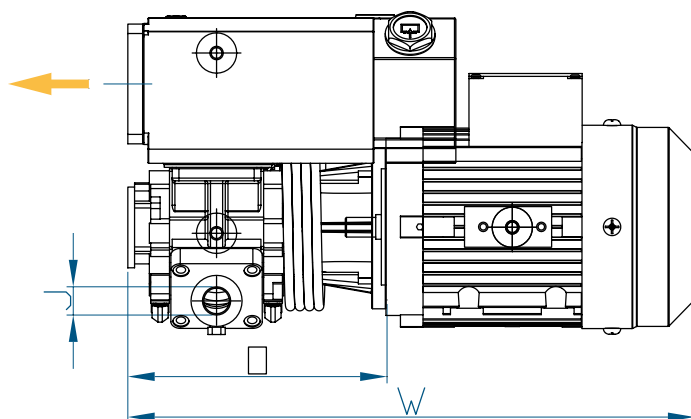
Model	A	B	C	D	E	F	G	H	I	J	K	L	M	O	P	Q
PA 0010 K	311	167	116	154	76	213	169	153	60	37	231	106	25	179	199	106
PA 0016 K	321	167	116	154	76	213	169	153	60	37	231	106	25	179	199	106

Dimensions

Industrial standard PA 0021 K - PA 0100 K



Diagram



Dimensions in mm

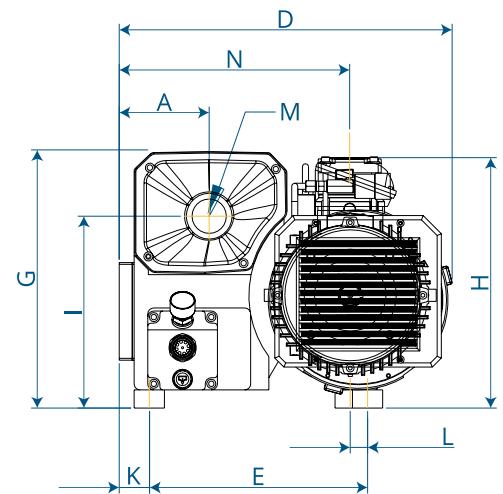
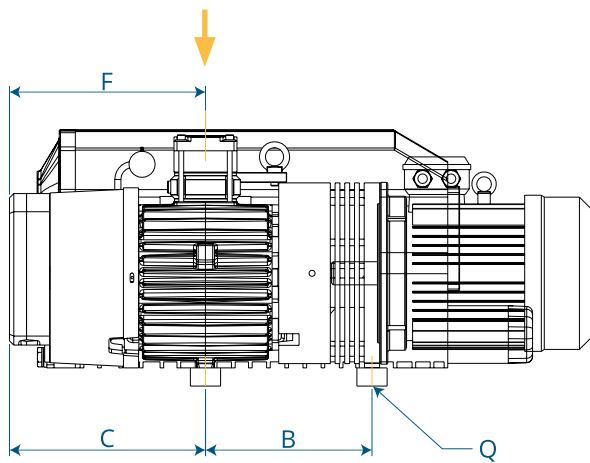
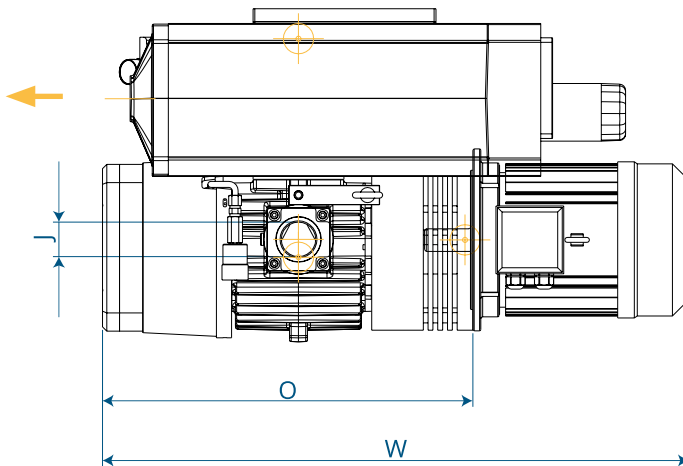
Model	W	D	H	A	B	C	E	F	G	I	J	K	L	M	N	O	P	Q	R
PA 0021 K	422	258	188	49	220	66	134	66	182	143	1/2"	29	4	G1-1/4"	210	192	-	3xM8	-
PA 0040 K	630 (650)	301	270	50	191	154	217	149	265	212	G1-1/4"	15	34	G1-1/4"	200	345	7.5	3xM8	-
PA 0063 K	598 (50Hz)	412	302	49	189	142	292	142	285	235	G1-1/4"	15	10	G1-1/4"	297	336	5.3	3xM8	93
PA 0100 K	704	412	302	49	224	172	292	172	285	235	G1-1/4"	15	10	G1-1/4"	297	396	5.3	3xM8	93

Dimensions

Industrial standard PA 0175 K - PA 0300 K



Diagram



Dimensions in mm

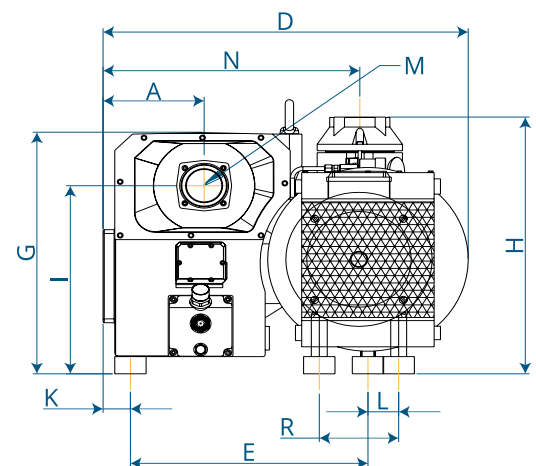
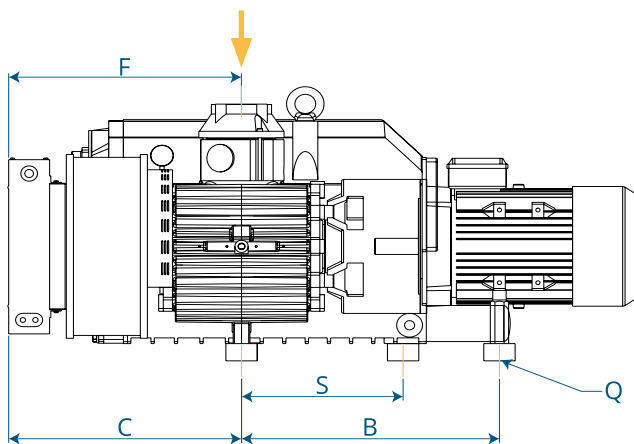
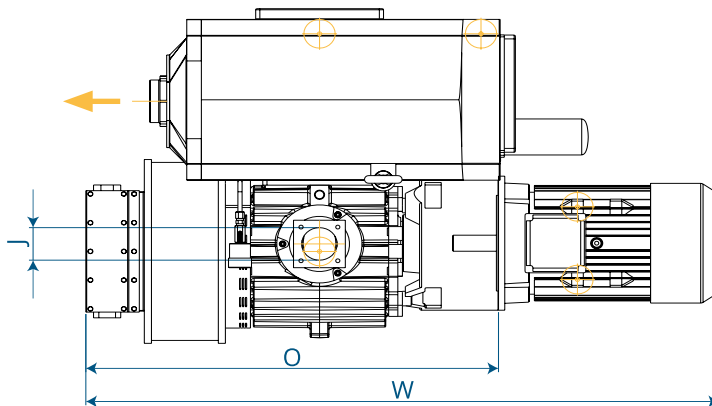
Model	W	D	H	A	B	C	E	F	G	I	J	K	L	M	N	O	Q
PA 0175 K	905	529	413	148	280	296	360	294	423	316	G2"	50	29	G2"	233	554	3xM8
PA 0250 K	1006	550	413	149	275	323	360	324	426	316	G2"	50	29	G2"	380	612	3xM10
PA 0300 K	1032	550	413	149	311	323	360	324	426	316	G2"	50	31	G2"	380	612	3xM10

Dimensions

Industrial standard PA 0420 K - PA 0750 K



Diagram



Dimensions in mm

Model	W	D	H	A	B	C	E	F	G	I	J	K	L	M	N	O	Q	R	S
PA 0420 K	1484	874	671	242	417	494	569	494	631	491	G3"	65	118	G3"	614	889	4x12	279	387
PA 0500 K	1583	874	671	242	549	559	569	559	631	491	G3"	65	118	G3"	614	988	4x12	279	387
PA 0660 K	1747	874	671	242	636	595	569	595	631	491	G3"	65	138	G3"	614	1097	4x12	318	387
PA 0750 K	1583	874	671	242	698	559	569	559	631	491	G3"	65	118	G3"	614	988	4x12	279	387

Accessories

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Air filters

The filter is installed in front of the vacuum pump as a protection against suction of foreign particles, or in dusty environments. The air filter is also used to dampen the noise created by suction.



Vacuum regulation valve

The vacuum regulation valve sucks in a small volume of air, thus reducing the underpressure, created by the vacuum pump. By sucking air in, the vacuum pump lightens, thus reducing the electricity consumption.

Control unit:

The control is ideal for the central vacuum systems. Vacuum pump or a set of vacuum pumps runs automatically. The vacuum pump starts based on the set activation points in the control unit. The unit displays the current pressure on a digital display. The vacuum pump control system saves electricity.



Vacuum gauge:

Vacuum gauges are used for displaying the pressure at the vacuum pump suction mechanism. Pressure information allows the technologists to maintain product quality, indicates states for easier control and maintenance, and makes defect and leak indication within the technology easier. For this purpose, visual manometers or vacuum gauges are available.

VAKUUM BOHEMIA

Services

On-site service

The VAKUUM BOHEMIA team provides on-site service for all common types of industrial vacuum pumps. This concerns oil rotary vacuum pumps, liquid ring vacuum pumps, claw vacuum pumps, screw vacuum pumps, vacuum pumps with a reciprocating piston, Roots blowers and side channel blowers. VAKUUM BOHEMIA also provides warranty and post warranty repairs for all the vacuum pumps and vacuum systems it supplies. The parts for repairs are all in stock. Naturally there is operator training and equipment maintenance briefings for all deliveries of more complicated systems.

Other services

VACUUM BOHEMIA runs a vacuum pump hire service and offers reconditioned vacuum pumps. We have many years of experience with planning vacuum systems, the production of standardized vacuum assemblies and unique special-purpose machines. Our solutions are based on the individual requirements of each application and each customer.



Jihlava Service Center



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