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Catalog ZINISAN ZYVP

Brand Oil-Lubricated Rotary Vane
Vacuum Pumps

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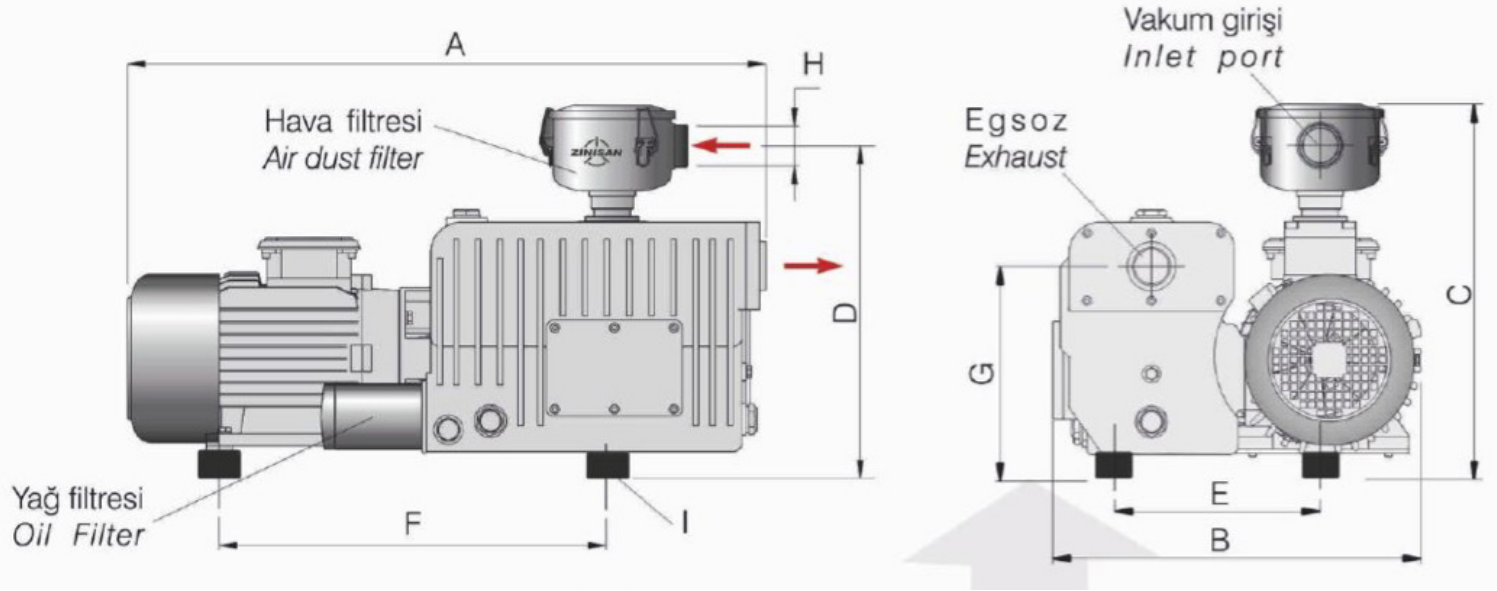
Brand Oil-Lubricated Rotary Vane Vacuum Pumps

The range of capacity options and high ultimate vacuum pressure of Zinisan ZYVP series vacuum pumps makes an ideal solution for even most demanding applications.

The ZYVP series have been designed for continuous operation in industry and used in many applications for long years. ZYVP series vacuum pumps ensure the optimum performance via high quality materials and implenting up to date computerized manufacturing methods in all kinds of work environments.

Direct driven by a standard electric motor eliminates the problems caused by trasnmissi-on components. The integrated check-valve prevents air admittance into the vacuum chamber. Easy to service, compact design, air cooling and easy access rapid and simple servicing with long periods between repairs. Preventive maintenance is not required other than simple oil change.

Tecnichal Data		ZYVP 016	ZYVP 025	ZYVP 040	ZYVP 063	ZYVP 100	ZYVP 175	ZYVP 250	ZYVP 320	ZYVP 320-S	ZYVP 400	ZYVP 500	ZYVP 650
Nominal Displacement	50 Hz - m ³ /h 60 Hz - m ³ /h	16 19	25 30	40 48	63 76	100 120	175 195	250 300	320 380	320 380	400 480	500 600	650 760
Ultimate Pressure	mbar	2	2	2	2	2	2	2	2	2	2	5	5
Motor Rating	50 Hz - kW 60 Hz - kW	0,37 0,55	0,75 1,1	1,1 1,5	1,5 2,2	2,2 3,0	4,0 5,5	5,5 7,5	7,5 10,0	5,5 7,5	7,5 10,0	11,0 13,0	15,0 18,5
Motor Speed	50 Hz - d/d 60 Hz - rpm	1500 1800	1500 1800	1500 1800	1500 1800	1500 1800	1500 1800	1500 1800	1500 1800	1000 1150	1500 1800	1000 1150	1000 1150
Noice Level	50 Hz - db(A) 60 Hz - db(A)	53 55	60 63	63 66	64 66	65 68	70 73	73 76	74 76	70 73	77 79	77 79	77 79
Operation Tempuature	50 Hz - °C 60 Hz - °C	80 83	80 85	82 90	84 92	84 93	82 90	86 96	88 98	80 83	86 98	80 86	80 86
Oil Capacity	lt.	0,5	1,5	1,5	3	3	6	6	6,5	6,5	6,5	18	18
Approximate Weight	kg.	21	37	44	59	76	147	210	213	220	236	540	580



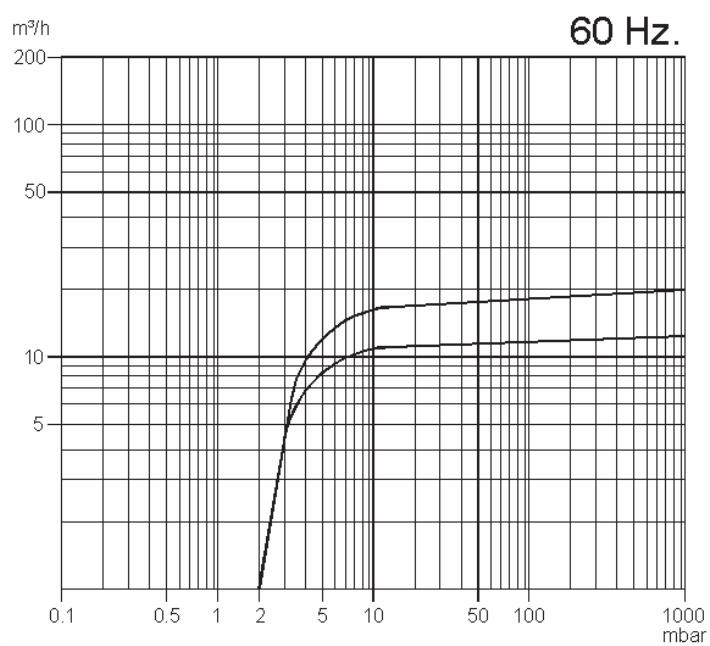
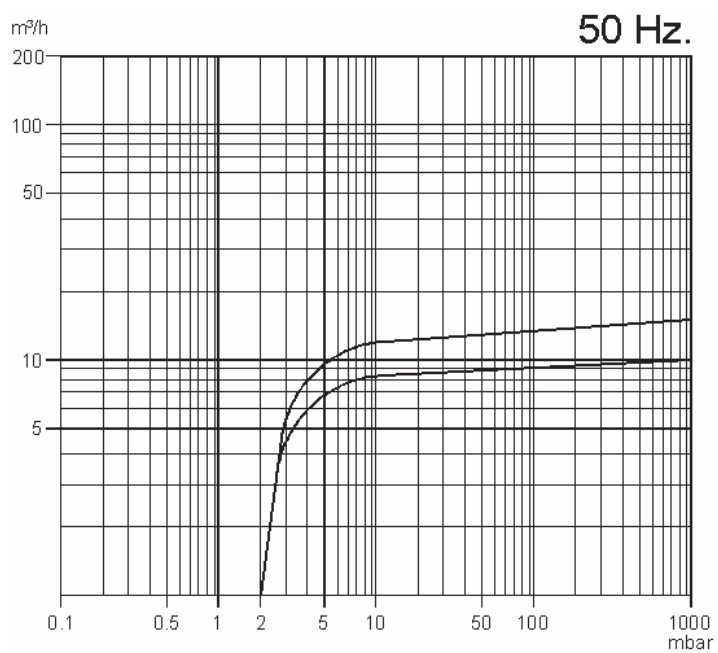
Ölçüler / Dimensions

DIMENSIONS	A	B	C	D	E	F	G	H	I	DIMENSIONS
ZYVP-016	490	230	310	260	130	292	170	G3/4"	M6	ZYVP-016
ZYVP-025	615	320	395	350	140	330	235	G1 1/4"	M8	ZYVP-025
ZYVP-040	655	320	395	350	140	370	235	G1 1/4"	M8	ZYVP-040
ZYVP-063	650	420	415	370	230	362	245	G1 1/4"	M8	ZYVP-063
ZYVP-100	730	420	415	370	230	448	245	G1 1/4"	M8	ZYVP-100
ZYVP-175	870	540	590	505	320	455	310	G2"	M10	ZYVP-175
ZYVP-200	910	540	590	505	320	495	310	G2"	M10	ZYVP-200
ZYVP-250	990	540	590	505	320	560	310	G2"	M10	ZYVP-250
ZYVP-320	1050	560	640	545	315	565	310	G2 1/2"	M10	ZYVP-320
ZYVP-400	1120	560	640	545	315	595	310	G2 1/2"	M10	ZYVP-400
ZYVP-500	1150	590	640	545	340	620	350	G2 1/2"	M10	ZYVP-500
ZYVP-520	1520	865	985	905	465	810	505	G3"	M12	ZYVP-520
ZYVP-650	1690	865	985	905	465	945	505	G3"	M12	ZYVP-650
ZYVP-750	1170	920	985	905	525	1110	505	G4"	M16	ZYVP-750

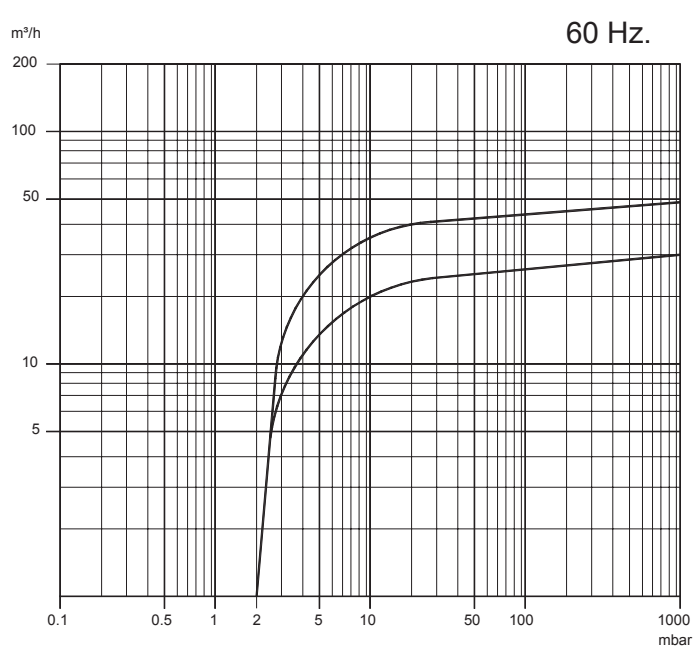
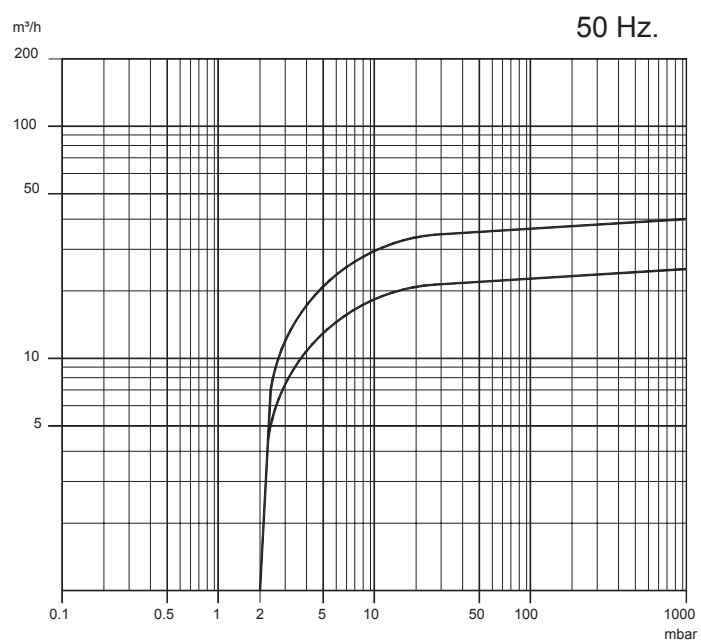
Vakum & Basınç çevrim tabloları / Vacuum & Pressure Conversions

Units	mm H ₂ O	Torr(mm Hg)	micron	In. Hg.	In. H ₂ O	lb/in ² (psi)	mbar (hPa)	bar	Pa (N/m ²)	kPa	atm	kp/cm ² (at)
1 mbar (hPa)	10.197	0.75	750	2.953 x 10 ⁻²	0.402	1.45 x 10 ⁻²	1	1 x 10 ⁻³	100	0.1	9.869 x 10 ⁻⁴	1.02 x 10 ⁻³
1 bar	1.02 x 10 ⁴	7.5 x 10 ²	7.5 x 10 ⁵	29.53	4.015 x 10 ²	14.5	103	1	1 x 10 ⁵	100	0.987	1.02
1 Pa (N/m ²)	0.102	7.5 x 10 ⁻³	7.5	2.953 x 10 ⁻⁴	4.015 x 10 ⁻³	1.45 x 10 ⁻⁴	0.01	1 x 10 ⁻⁵	1	0.001	9.869 x 10 ⁻⁶	1.02 x 10 ⁻⁵
1 kPa	1.02 x 10 ²	7.5	7.5 x 10 ³	0.295	4.015	0.145	10	0.01	1 x 10 ³	1	9.869 x 10 ⁻³	1.02 x 10 ⁻²
1 atm	1.033 x 10 ⁴	7.6 x 10 ²	7.6 x 10 ⁵	29.92	4.068 x 10 ²	14.7	1.013 x 10 ³	1.013	1.013 x 10 ⁵	1.013 x 10 ²	1	1.033
1 kp/cm ² (at)	1 x 10 ⁴	7.356 x 10 ²	7.356 x 10 ⁵	28.96	3.973 x 10 ²	14.22	9.807 x 10 ²	0.981	9.807 x 10 ⁴	98.07	0.968	1
1 mm H ₂ O	1	7.354 x 10 ⁻²	73.54	2.896 x 10 ⁻³	3.394 x 10 ⁻²	1.42 x 10 ⁻³	9.807 x 10 ⁻²	9.807 x 10 ⁻⁵	9.807	9.807 x 10 ⁻³	9.677 x 10 ⁻⁵	1 x 10 ⁻⁴
1 Torr (mm Hg)	13.59	1	1 x 10 ³	3.937 x 10 ⁻²	0.535	1.934 x 10 ⁻²	1.333	1.333 x 10 ⁻³	1.333 x 10 ²	1.333 x 10 ⁻¹	1.316 x 10 ⁻³	1.36 x 10 ⁻³
1 micron	1.359 x 10 ⁻²	1 x 10 ⁻³	1	3.937 x 10 ⁻⁵	5.35 x 10 ⁻⁴	1.934 x 10 ⁻⁵	1.333 x 10 ⁻³	1.333 x 10 ⁻⁶	1.333 x 10 ⁻¹	1.333 x 10 ⁻⁴	1.316 x 10 ⁻⁶	1.36 x 10 ⁻⁶
1 in. Hg	3.45 x 10 ²	25.4	2.54 x 10 ³	1	13.6	0.491	33.86	3.386 x 10 ⁻²	3.386 x 10 ³	3.386	3.342 x 10 ⁻²	3.453 x 10 ⁻²
1 in. H ₂ O	25.4	1.868	1.868 x 10 ³	7.356 x 10 ⁻²	1	3.613 x 10 ⁻²	2.491	2.491 x 10 ⁻³	2.491 x 10 ²	0.249	2.458 x 10 ⁻³	2.54 x 10 ⁻³
1 lb.in ² (psi)	7.03 x 10 ²	51.71	5.171 x 10 ⁵	2.036	27.68	1	68.95	6.895 x 10 ⁻²	6.895 x 10 ³	6.895	6.805 x 10 ⁻²	7.03 x 10 ⁻²

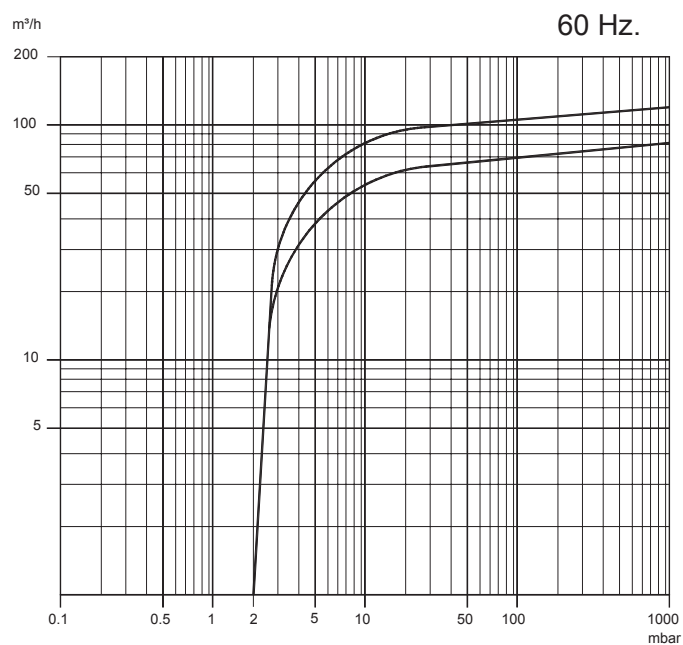
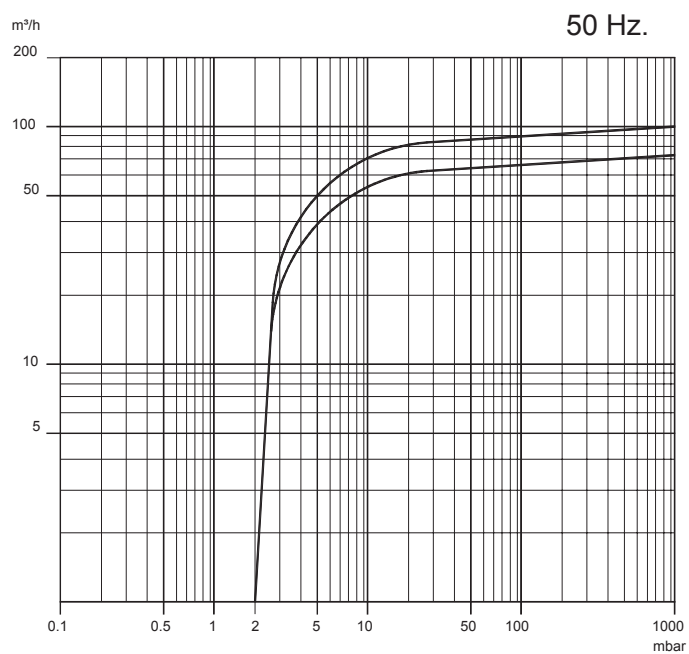
ZYVP – 010, ZYVP – 016



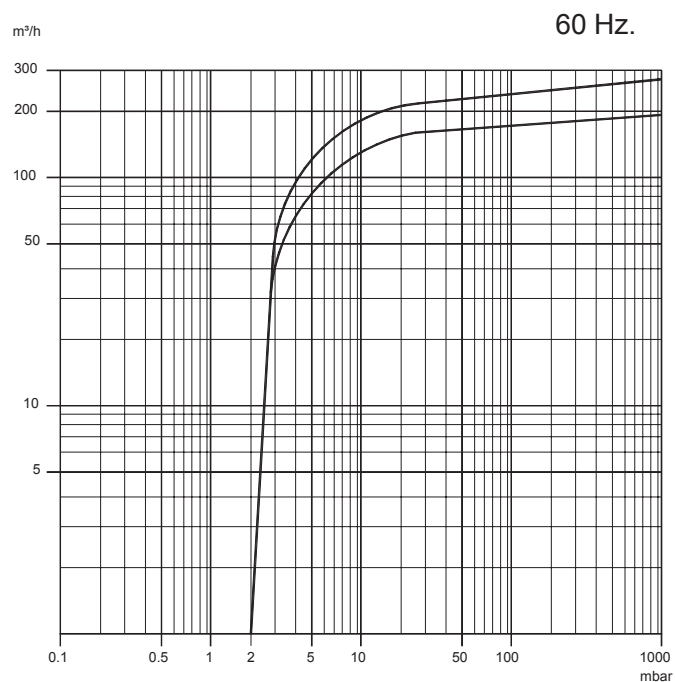
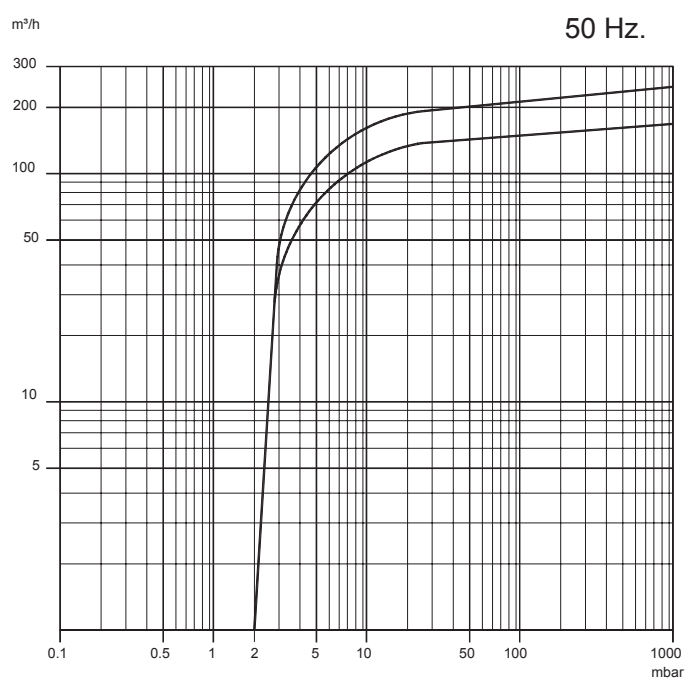
ZYVP – 025, ZYVP – 040



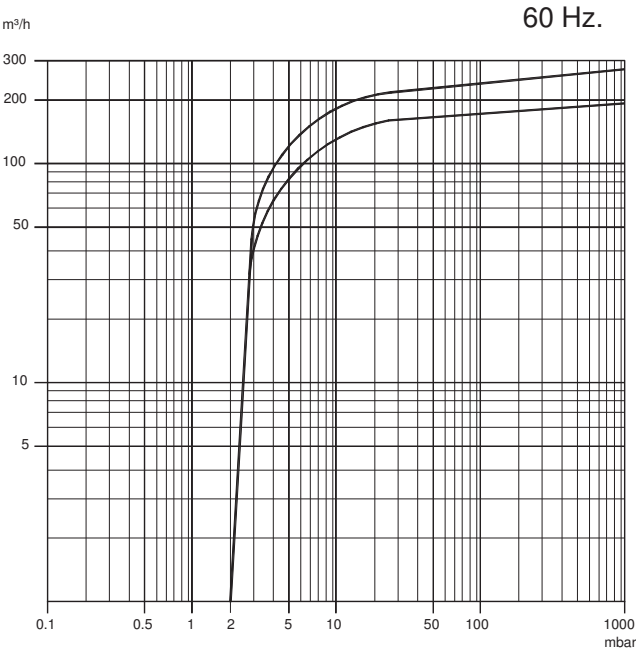
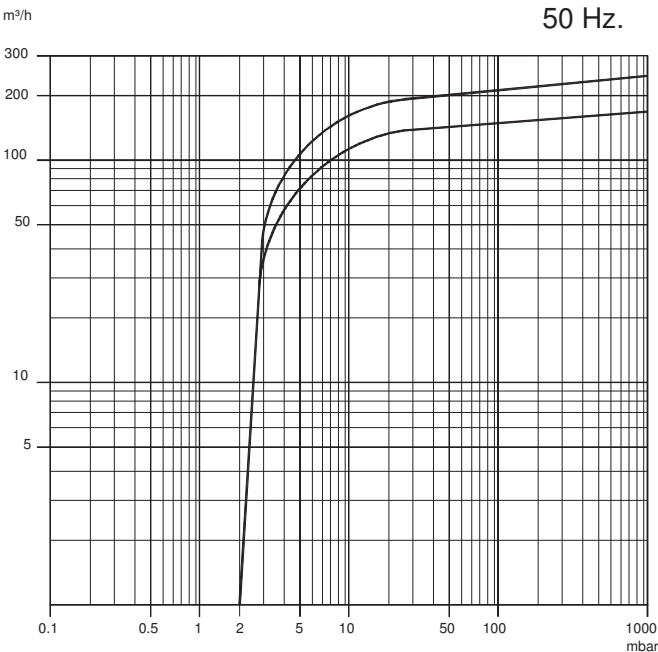
ZYVP – 063, ZYVP – 100



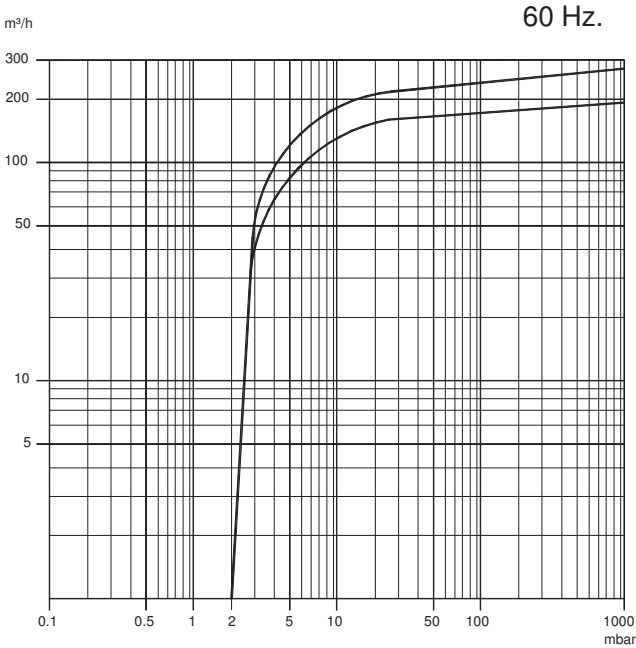
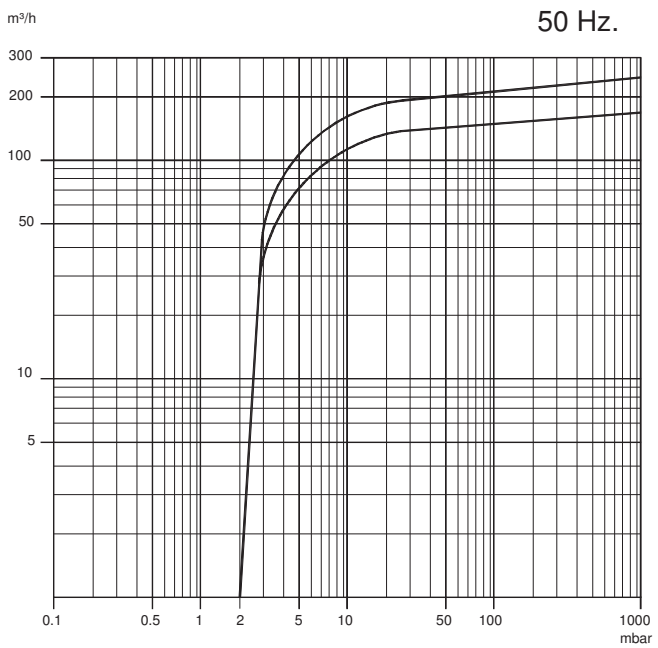
ZYVP – 175, ZYVP – 250

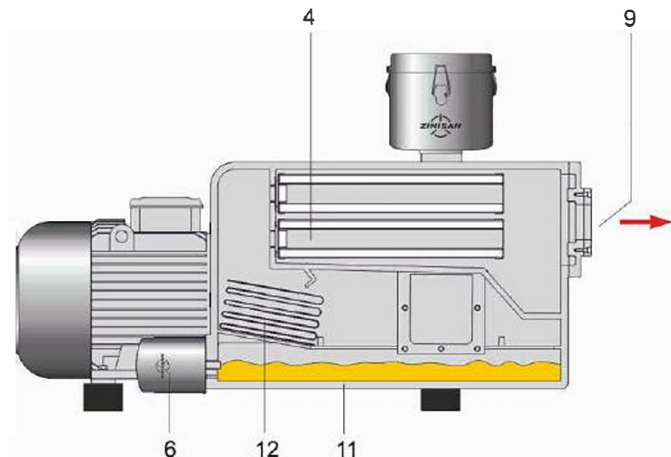
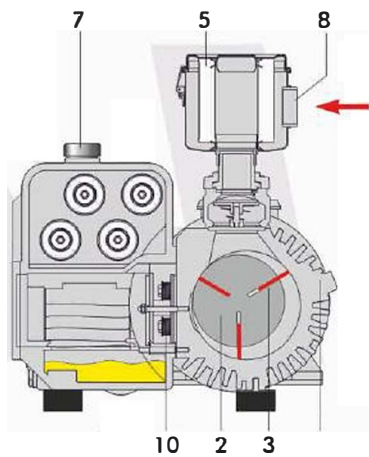


ZYVP-320



ZYVP – 430, ZYVP – 650





- 1- Cylinder
- 2- Rotor
- 3- Vane
- 4- Exhaust Filter

- 5- Inlet Filter
- 6- Oil Filter
- 7- Oil Fill Plug
- 8- Inlet Port

- 9- Exhaust Port
- 10- Exhaust Valve
- 11- Oil Sump
- 12- Mist Eliminator

Principle of operation

ZINISAN NI P series vacuum pumps work according to the rotary vane principle. An eccentrically installed rotor (2) rotates in the cylinder. The centrifugal force generated by the rotation pushes the vanes (3) which slide in slots in the rotor, towards the cylinder wall. The vanes separate the space between the rotor and the cylinder in chambers. When the chambers are connected to the inlet channel, gas is sucked, compressed by the next rotation and pushed into the oil separator. Differential pressure constantly causes oil to be passed into the compression chambers. The oil and medium are then discharged into the oil separator and then separated from the exhaust air by the exhaust filters (4) and gravity. Oil collects on the bottom of the oil reservoir and is passed into the chamber again.

Applications

- Packaging industry
- Food industry
- Marble and stone processing
- Transport and lifting systems
- Medical technology
- Central vacuum systems
- Environmental technology
- Ship building industry
- Woodworking
- Plastic industry
- Ceramics and brick industry
- Sewage transfer
- Textile industry
- Beverage industry
- Paper industry
- Glass industry