



If you any problem with your
Vacuum pumps or system call
VPS for the solution!



SCREW DRY VACUUM PUMP

VPS-P Series



VACUUM PUMP SOLUTION
OIL & WATER FREE DRY SCREW VACUUM PUMPS



If you any problem with your
Vacuum pumps or Vacuum system
call VPS for the solution!



VPS CO., LTD.

VPS have manufactured Dry Screw Vacuum Pumps as special item.

We are doing our best to develop for vacuum business since VPS had been established. Through solving the product with the spirit of Challenge and pioneer, we develop our product which do not need any disposition like wastewater or waste oil for green environment dry screw pump.

We think that the dry screw vacuum pump price is quite high to get so we try to solve this problem then supply our pumps with inexpensive price by large quantity production. So, we are exporting our small, medium & large Capacity Screw Dry pump to domestic and overseas market by ourself.

Also, we supply our total service which you want our service for vacuum pump and vacuum system. Then, we would like to be a partner for future business. The last thing is for A/S, we promise to help your company if you have any problem. We always appreciate for customer's thoughtful consideration and support and look forward to your continuous encouragement and support. If you have any question, please visit our homepage.



VPS

OIL & WATER FREE
DRY SCREW VACUUM PUMPS

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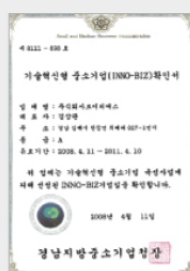
10 **VPS-L Series**



History

- | | |
|--|--|
| <p>2005</p> <ul style="list-style-type: none"> - Foundation of VPS Co., Ltd. - Open Germany Branch office - Develop the New product L-Series <p>2006</p> <ul style="list-style-type: none"> - Part & Material Specially Company by (Ministry of Commerce Industry and Energy, Korea) - Utility model certificate for Vacuum Pump Screw from KIBO - Appointed as Venture Company by KIBO Technology Fund - Foundation of Research Institute - Open Beijing(China) Branch office <p>2007</p> <ul style="list-style-type: none"> - Patent for Vacuum Pump Screw from KIBO <p>2008</p> <ul style="list-style-type: none"> - Appointed as INOBIZ(Innovation Business) Company by SMBA - Total Movement of Busan New Factory <p>2009</p> <ul style="list-style-type: none"> - ISO 14000:2004 Certificate from ITC - ISO 9001 / KS A 9001 Certificate from DAS - Develop the Large capacity VPS-P 2700 | <p>2010</p> <ul style="list-style-type: none"> - Develop the Large capacity VPS-P 1500 - Foundation of Beijing VPS Technology Co., Ltd. <p>2011</p> <ul style="list-style-type: none"> - Large Vacuum pump(1,500m³/hr) delivered to China(SINOPEC) <p>2014</p> <ul style="list-style-type: none"> - ATX Certificate from ECM - Movement of Own Factory(Busan, Korea) <p>2015</p> <ul style="list-style-type: none"> - Foundation of Shandong VPS Machinery Co., Ltd. <p>2016</p> <ul style="list-style-type: none"> - Completion and Production of Factory in China <p>2019</p> <ul style="list-style-type: none"> - Production of Air-Cooled Small capacity VPS-L Series <p>2020</p> <ul style="list-style-type: none"> - Foundation of Shandong VPS Vacuum Co., Ltd. - Production of Solar and Semiconductor Vacuum pump <p>2022</p> <ul style="list-style-type: none"> - Factory Expansion Relocation(Busan, Korea) <p>2023</p> <ul style="list-style-type: none"> - 10 Million Dollar Export Award |
|--|--|

Technological Know-how of VPS



INNO-BIZ
04. 2008



Certificate-of Patent
08. 2007



EN ISO 14001 :2004
06. 2009



ISO 9001-KS A 9001 Certificate
06. 2009



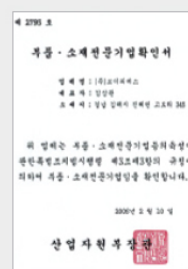
Appointed as Venture Company
09. 2006



Practical Use Registration
04. 2006



Foundation of Research Institute
10. 2006



Part & Material Specially Company
02. 2006

VPS-P Series

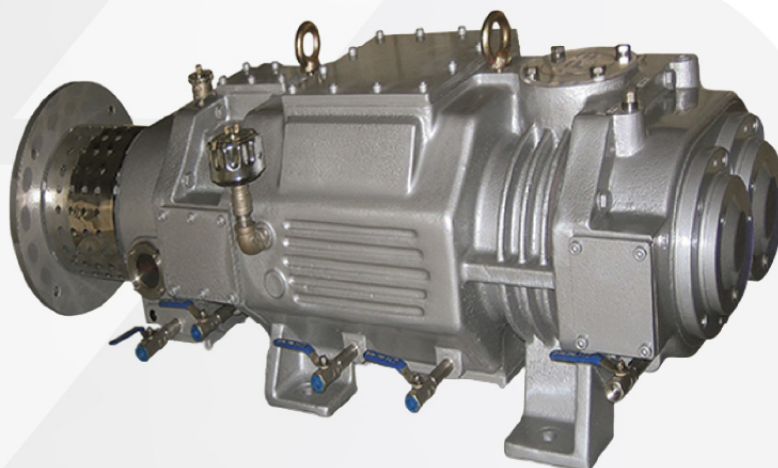
Screw type Dry Vacuum pumps are widely employed worldwide in chemical, Petro-chemical, food processing, plastics, vacuum furnace, semiconductor as well as many other applications in general industries. Screw type Dry Vacuum Pumps are designed for systems and applications.

Screw Rotor & Single Stage

Higher Volume Efficiency | Higher Compression Ratio | Improve Pumping Speed | Lower Cost of Ownership



VPS-P Medium Capacity



+ Characteristics of C-flange Products

For simplicity and space saving, model(P150, P300) are available with flanged adaptors for mounting.

Various standards C-face motor directly to the Vacuum pumps, eliminating the need for a separate for the vacuum pumps.

Base frame mounted assembly and coupling guard.

The other model(P400, P800) are manufactured for special.

Advantages of C-flange models

Reduced installation space	Simplified mounting	Low vibration
Reduced noise level	No alignment required	

✚ Features of Screw type Dry Vacuum Pump

- Oil & Water free Dry running operation makes clean vacuum
- Single stage design enables solid waste easy discharge and eliminate residue in the pump
- Suitable for pumping Toxic, Corrosive and condensable gas by special coating
- Not using Oil or Water as pumping medium, low operation cost
- Simple design results easy maintenance
- No metal-metal contact between Screw and Casing ensures long pump life
- Short gas path through the pump make quick gas discharge
- Screw type rotors have high volume efficiency
- Slow rotational speed results low vibration and low noise level

✚ Seal

- Mech. Seal or Lip Seal
- No Sudden Accident by using the seal
- Protect from dust & etc to purge Air & N₂ in front or Seal (Option)

✚ Optional Materials and Coatings

Standard construction materials for Casing and Screw rotors and Ductile Iron with Teflon Coated internal and Viton O-rings.

- Special coatings - **Teflon(PFA), Ni or Cr Plated**
- However, the followings are also available : **Special O-ring such as Kalrez, Teflon**
Special Mech, Seals like Hastelloy, Ni-resist

✚ Extra Test

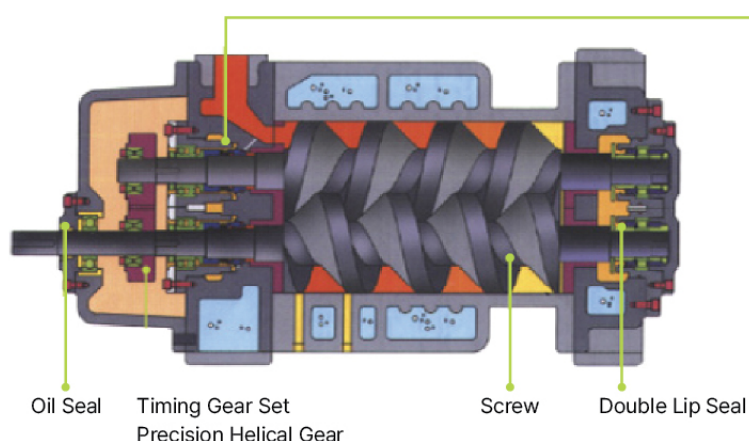
Leak detection | Noise & Vibration | Hydrostatic Pressure | Customerspecified

Specification

		VPS-P150	VPS-P300	VPS-P400	VPS-P800
Nominal Displacement (50/60Hz)	M ³ /Hr	120 / 150	205 / 300	330 / 400	680 / 800
	CFM	70.6 / 88.3	147.1 / 176.5	194.2 / 235.4	400.2 / 470.8
	ℓ/min	2000 / 2500	4167 / 5000	5500 / 6667	11333 / 13333
Ultimate Pressure (50/60Hz)	mbar	0.27 / 0.13	0.13 / 0.07	0.04 / 0.013	0.04 / 0.013
	Torr	0.2 / 0.1	0.1 / 0.05	0.03 / 0.01	0.03 / 0.01
	Pa	27 / 13.3	13.3 / 6.7	4 / 1.3	4 / 1.3
Power (50/60Hz)	Kw	5.5	7.5 / 11	11 / 15	18.5 / 22
	Hp	7.5	10 / 15	15 / 20	25 / 30
Rotation (RPM) 50/60Hz		2900 / 3450			
Port Size (A)	Suction	40	50	65	100
	Discharge	40	40	50	65
Gear Oil (L)		1.3	1.6	2	4
Cooling Water	ℓ/min	3	5	7	10
	gal/min	0.8	1.32	1.85	2.64
Weight (Pump only)		220Kg	320Kg	410Kg	630Kg

* Specifications are subject to change without notice to improve product quality.

Standard Water Cooled End Plates, Casing



Over Sized Bearings

Gear : Double Ball Bearing
Shaft : Single Ball Bearing

Seals

Mechanical seal or
Double Lip seal

Over Sized Bearing

Non-drive end shaft:
Rolloer Bearing

VPS-P Large Capacity

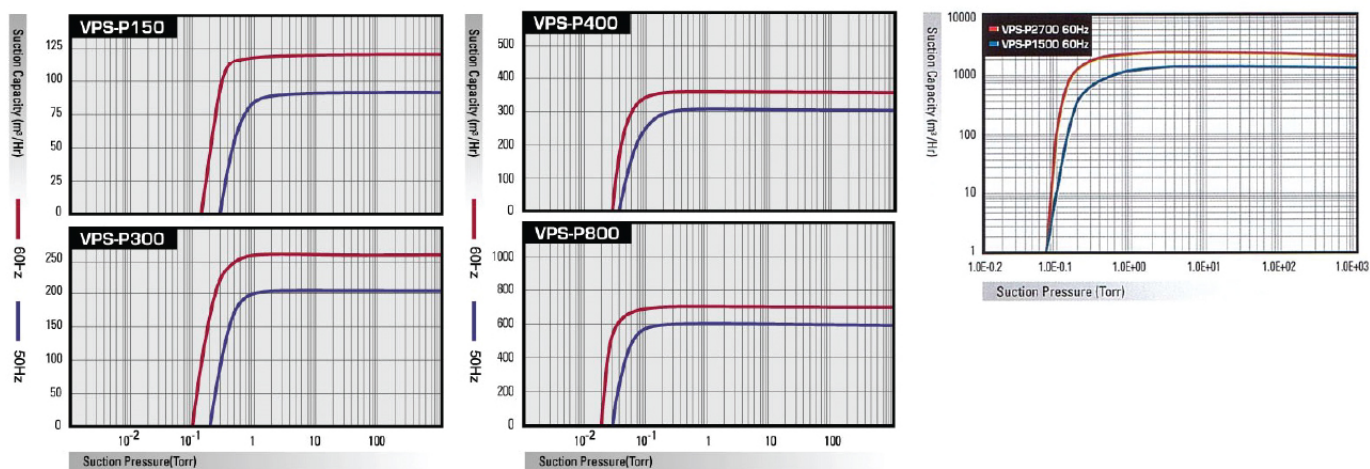


Specification

		VPS-P1500	VPS-P2700
Nominal Displacement (50/60Hz)	M ³ /Hr	1250 / 1500	2250 / 2700
	CFM	735 / 882.8	1324 / 1589
	ℓ/min	20833 / 25000	37500 / 45000
Ultimate Pressure (50/60Hz)	mbar	0.13 / 0.07	0.13 / 0.07
	Torr	0.1 / 0.05	0.1 / 0.05
	Pa	13.3 / 6.7	13.3 / 6.7
Power (50/60Hz)	Kw	37	55
	Hp	50	75
Rotation (RPM) 50/60Hz		1450 / 1750	
Port Size (A)	Suction	125	150
	Discharge	80	100
Gear Oil (L)		5	6
Cooling Water	ℓ/min	20	28
	gal/min	5.3	7.4
Weight (Pump only)		1350Kg	1750Kg

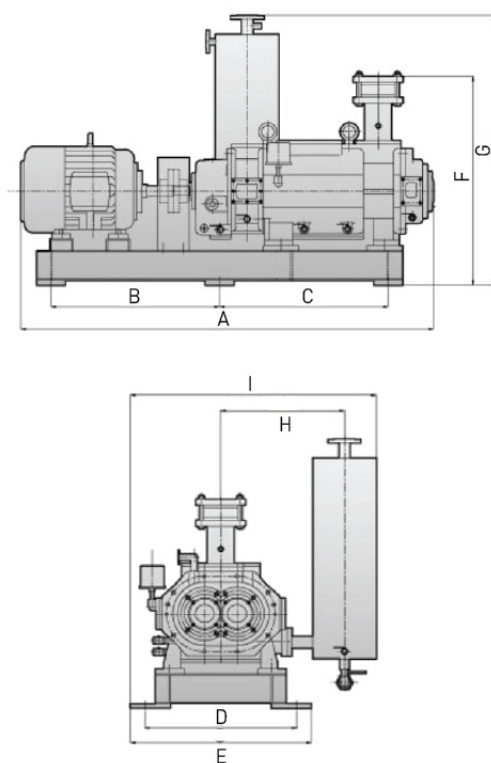
* Specifications are subject to change without notice to improve product quality.

Performance Curve / Dimension



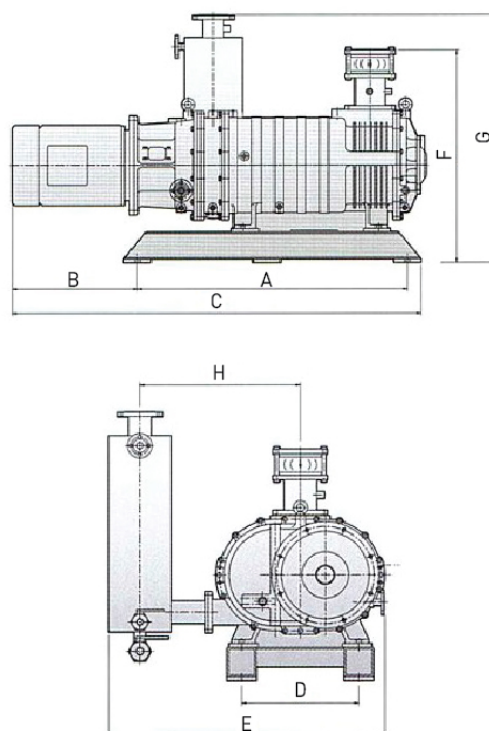
VPS-P Medium Capacity

• VPS-P150 • VPS-P300 • VPS-P400 • VPS-P800



VPS-P Large Capacity

• VPS-P2700 • VPS-P1500



Specification

Model No.	A	B	C	D	E	F	G	H	I	Remark
VPS-P150	1070	-	600	482	602	722	895	380	789	C-FLANGE TYPE
VPS-P300	1305	-	750	538	658	766	895	420	857	C-FLANGE TYPE
VPS-P400	1573	620	620	560	580	789	992	545	885	
VPS-P800	1773	715	715	640	760	880	1137	654	1033	
VPS-P1500	1450	575	2110	480	1210	1035	1340	675		
VPS-P2700	1500	640	2267	600	1410	1180	1370	820		

* Specifications are subject to change without notice to improve product quality.

VPS-L Series

We are doing our best to develop for vacuum business since VPS had been established. Through solving the product with the spirit of Challenge and pioneer, we develop our product which do not need any disposition like wastewater or waste oil for green environment dry screw pump.



VPS
L-Series

Specification

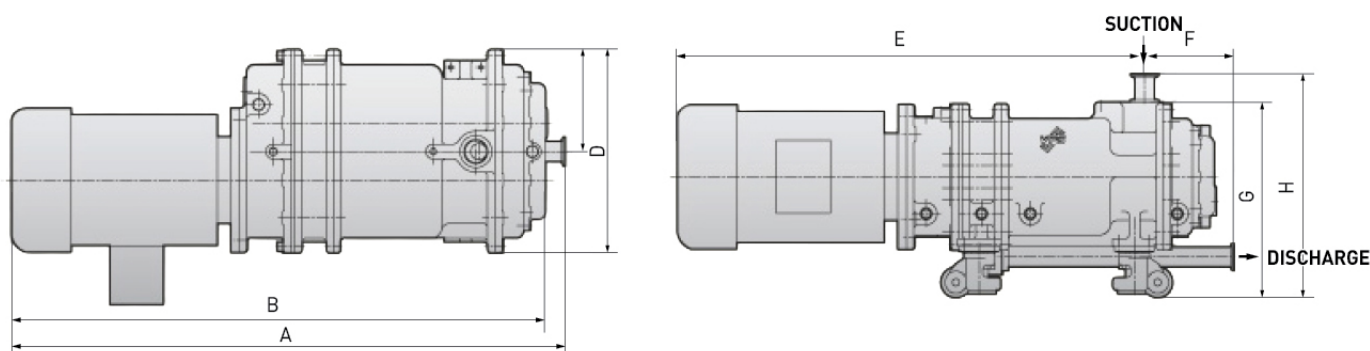
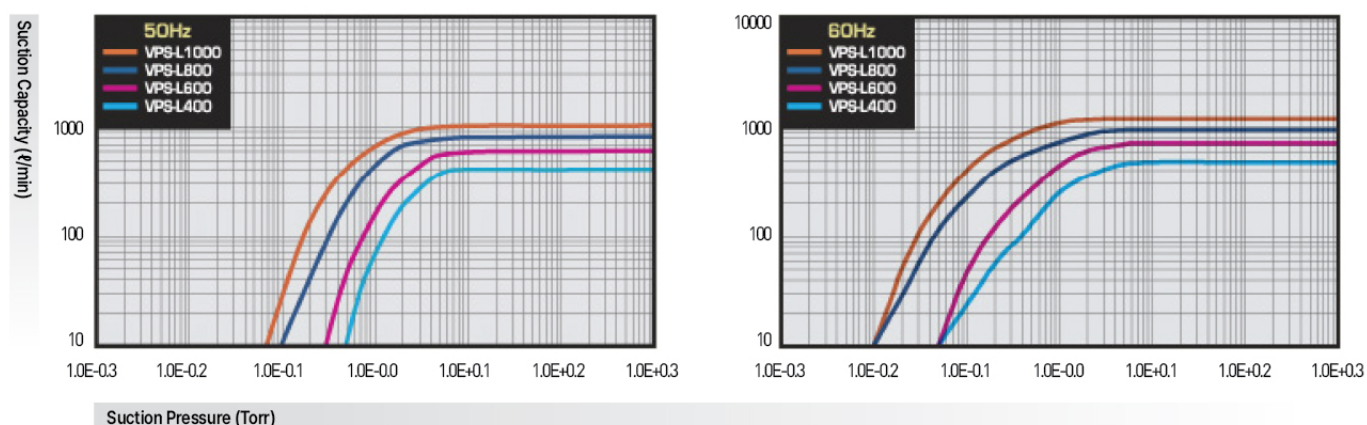
		VPS-L400	VPS-L600	VPS-L800	VPS-L1000
Nominal Displacement (50/60Hz)	M ³ /Hr	24 / 29	36 / 43	48 / 57	
	CFM	14 / 17	21.2 / 25.3	28.2 / 33.9	
	ℓ/min	400 / 480	600 / 720	800 / 960	
Ultimate Pressure (50/60Hz)	mbar	0.7 / 0.067	0.4 / 0.07	0.13 / 0.03	
	Torr	0.5 / 0.05	0.3 / 0.05	0.1 / 0.02	
	Pa	66 / 6.7	40 / 6.7	13.3 / 2.7	
Power (50/60Hz)	Kw	2.2	2.2	3.7	
	Hp	3	3	5	
Rotation (RPM) 50/60Hz		2900 / 3450			
Port Size (A)	Suction	NW25	NW25	NW25	
	Discharge	NW25	NW25	NW25	
Gear Oil (L)		0.4	0.4	0.4	
Cooling Water	ℓ/min	2	2	3	
	gal/min	0.53	0.53	0.8	
Weight (Pump only)		85Kg	100Kg	120Kg	

* Specifications are subject to change without notice to improve product quality.

✚ Features of Screw type Dry Vacuum Pump

- Small Capacity Screw type Dry Vacuum Pump
- Reduce discharge temperature greatly & close to T4 requirement
- Mostly C-flange design Simplified mounting reduce noise level and eliminate shaft alignment
- Not using Oil or Water as pumping medium, low operation cost
- Non Oil back Stream
- Screw type rotors have high volume efficiency
- Short gas path through the pump make quick gas discharge
- Simple design results easy maintenance

✚ Performance Curve / Dimension



Specification

Model No.	A	B	C	D	E	F	G	H	Remark
VPS-L400	850	802	176	352	675	175	375	415	
VPS-L600	863	815	176	352	688	175	375	415	
VPS-L800	930	882	196	392	755	175	395	435	
VPS-L1000	950	900	196	392	775	175	395	435	

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WEBSITE



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OIL & WATER FREE DRY SCREW VACUUM PUMPS

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