

Vacuum Pumps America Inc.

Vertical Stainless Steel Dry Screw Vacuum Pump VPA-VSS-SUS Series





VPA-VSS60-SUS with Stainless Steel Motor



VPA-VSS60/Ex-SUS with Explosion proof Motor

Features of VPA-VSS-SUS Vertical Stainless Steel Dry Screw Vacuum Pumps:

- Stainless steel and Corrosion Proof, Rugged and Robust design. Capable of handling all types of Corrosive Gases, Vapors Solvents and Isotopes.
- Suitable for Clean Vacuum, Oil Free Clean Vacuum, CIP and GMP applications
- All wetted material including Vacuum Pump Housing and Screw Rotors are made of Stainless Steel.
- Capable of handling all types of gases and solvents ideal for: Pharmaceutical Industries, Bio-Tech, Chemical, Particle accelerators, CANDU Reactors, Nuclear Waste Management, Semiconductor Industries, Food processing plants, etc.
- Reduced discharge temperature greatly close to T4 requirement for Hazardous area including NEC 500 Explosion proof and ATEX derivatives.
- Small foot print, compact design and proven quality.
- Low noise and vibration level due to completely balanced screws.
- No use of Oil or Water as pumping medium, low operation costs.
- No oil back migration and no oil back streaming.
- Advanced elevated cantilever design for Screw Rotors doesn't let the bearings and seals come in contact with gases, vapors and even liquids.
- High Performance and High Efficiency.
- Short gas path through the pump makes quick gas discharge.
- Easy on-site maintenance and cleaning.
- VPA-VSS-SUS Vertical Stainless Steel Dry Screw Vacuum Pumps are available with Air cooled, ATEX  and Explosion Proof  motors at different voltages for Hazardous area like: 380V, 400V, 415V, 230/460V and 575V @ 50/60Hz with CE, CSA or UL approvals.
- VPA-VSS-SUS Vertical Stainless Steel Dry Screw Vacuum Pumps can handle all types of Corrosive gases, Petrochemical vapors, Solvents and Biologic vapors like: Acetone, Bio Diesel, Butane, Isobutene, Propane, THF, Oxalane, Dimethyl Ether DME, Difluoroethane HFC, Tetrafluoroethane, Pentane, Carbon Dioxide, Methylated spirits, Methanol, Ethanol, Propanol, Xylene, Toluene, Methyl Ethyl Ketone, Alcohols, Benzene, Oxygen, Ozone, etc...
- VAP-VSS-SUS can be used in radiation area like Nuclear Reactors, Nuclear Waste Management facilities and can handle Hydrogen, Deuterium, Oxygen, Ozone and other radioactive isotopes.

E-mail us : sales@vpamerica.com or Phone: 416-407-0350

Specifications of VPA-VSS-SUS Vertical Stainless Steel Dry Screw Vacuum Pumps:










Model	Pumping Speed		Ultimate Pressure Torr	Power (kW) 60Hz	Motor Rotational Speed (min ⁻¹)	Port Size Inlet/Outlet		Oil Capacity (L)	Cooling Water (L/ min)	Weight (kg) pump only
	L/min m ³ /h CFM	50Hz				60Hz				
VPA-VSS60-SUS	840 50 29.5	1000 60 35.5	1 x 10 ⁻²	3.7	3600	KF50	KF40	3	4 to 6	250
VPA-VSS100-SUS	1500 90 53	1666 100 59	1 x 10 ⁻²	5.5	3600	KF50	KF40	4	4 to 8	350

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

** To convert m³/h to CFM, divide by 1.69

Example: 100 m³/h ÷ 1.69= 72CFM

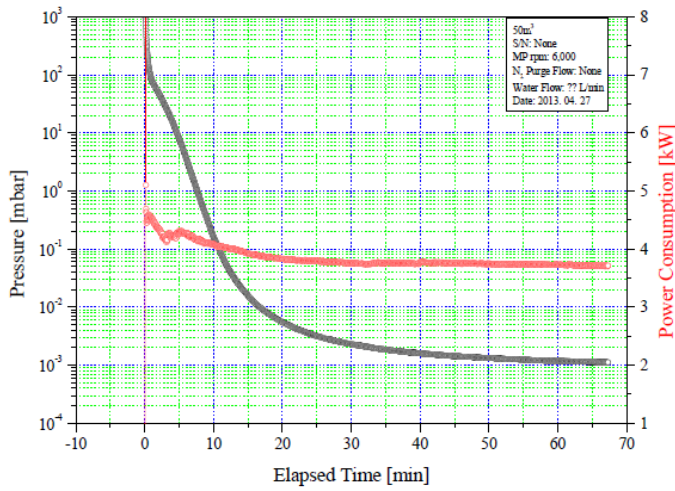
Applications of VPA-VSS-SUS Vertical Stainless Steel Dry Screw Vacuum Pumps:

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|---|--|---|
| <ul style="list-style-type: none"> Autoclaves Automotive Backing pump for high vacuum pumps Backing pump for Turbopumps Brake Fluid Filling Systems Brazing Casting CANDU Reactors Chemical Distillation  Chemical Processing  Chemical Laboratories  Chemical Vapor Deposition CVD Coating Systems Corrosive Gases Central Vacuum Systems  Debinderization Degassers  Degassing  Drying  Freeze Drying Etching Etchers and Dry Etchers Evacuating of Refrigeration Systems | <ul style="list-style-type: none"> Evacuation of Process chambers  Forming Food Processing Food Industry Fermentation Freeze Drying Hazardous area  Heat Treatment Heat Exchanger Drying in Power Plants Hazardous Area  Impregnating  Investment Casting  Impregnation  Isotope Separation Laboratory Leak Detection of dry systems Light Bulb Manufacturing Liquid Gas Storage Metallurgy Metals Processing Oil Degassers  Nuclear Waste Management Nuclear Reactors | <ul style="list-style-type: none"> Packaging PET Processing Pharmaceutical Processes  Physical Vapour Deposition PVD PVD Coating Systems Physics Laboratories Potting Research & Development Refineries  Roll Coating Semiconductor Industries Semiconductors Silicon Crystal Growing Sintering Space Simulation Solvent Recovery  Solvent handling  Transformer Drying  Vacuum Coating Vacuum Furnaces Vacuum Heat Treating Vacuum Melting Vacuum Metalizing Vacuum Packaging Vacuum Metallurgy |
|---|--|---|

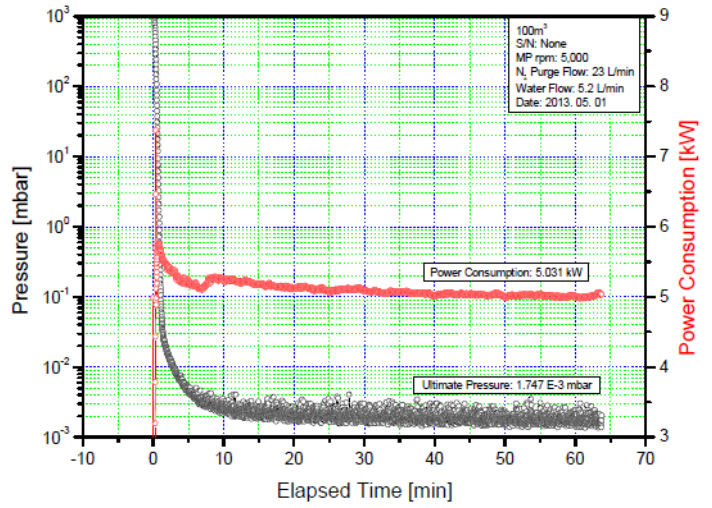
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Performance curves:

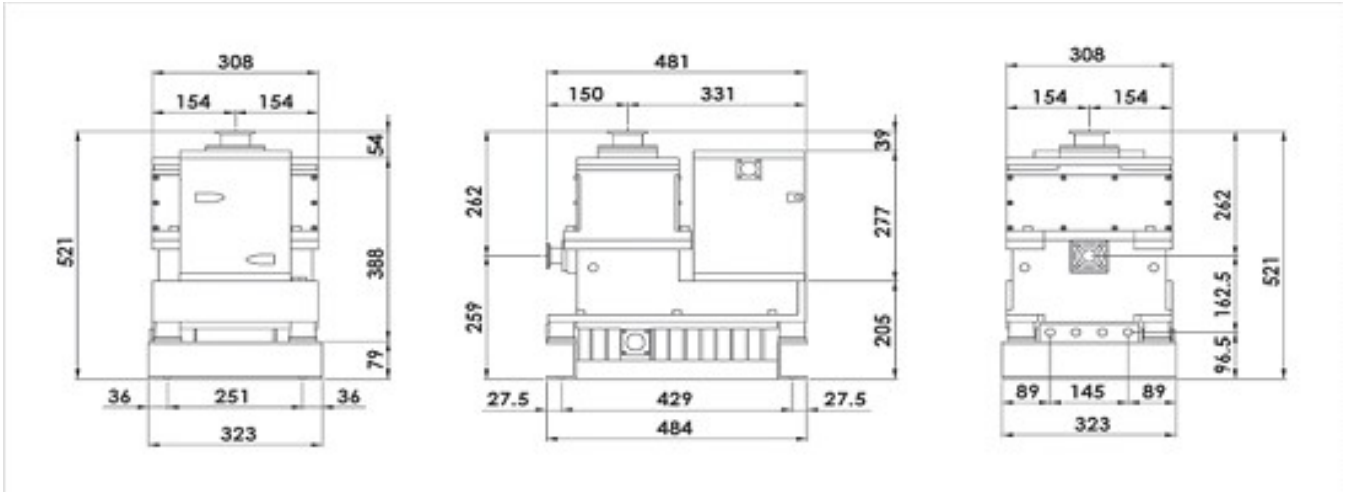


Pumping Speed & Power Consumption curves for VPA-VSS60

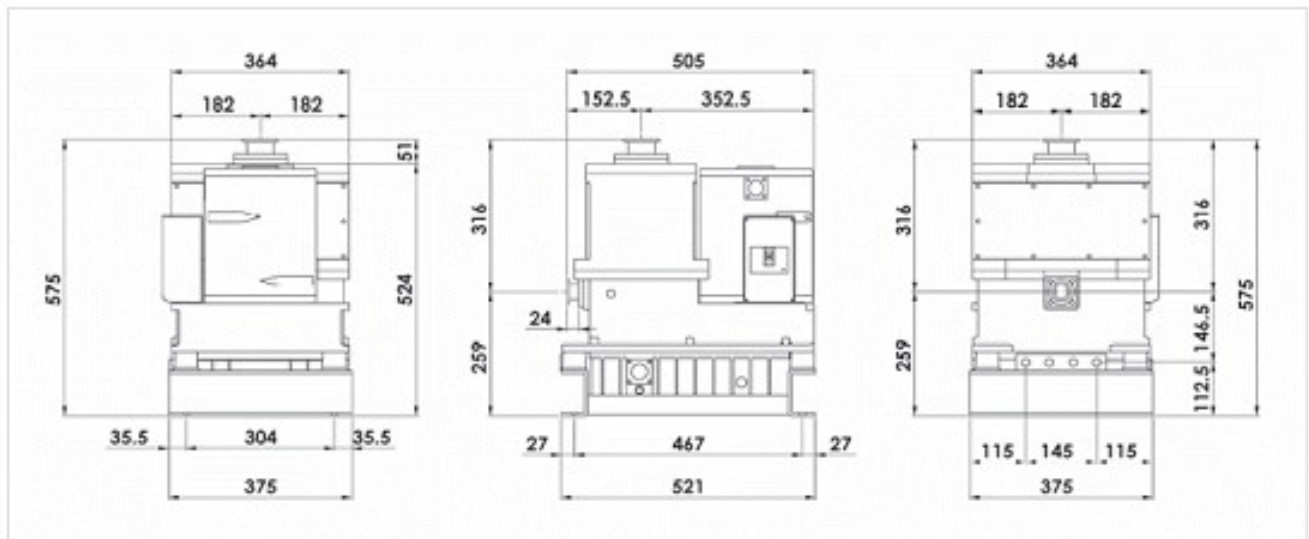


Pumping Speed & Power Consumption curves for VPA-VSS100

Dimensions:



Dimensions of VPA-VSS60-SUS





Dimensions of VPA-VSS100-SUS

*Height of the motor can be changed by use of different types of motors.

**All dimensions are in millimeter.

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Different types of motors are available for VPA-VSS-SUS Vertical Stainless Steel Dry Screw Vacuum Pumps as follows:

- Conventional TEFC Air Cooled
- TEFC Water Cooled
- Explosion proof, Class 1, Division 1, Group C&D and all Classes, Divisions and Groups
- ATEX 
- Energy efficient
- Flame proof 
- Wash down
- Motors are compatible with CE, CSA or UL standards.

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