

Vacuum Pumps America Inc.

Vertical Dry Screw Vacuum Pumps VPA-VSS Series



VPA-VSS60Ex






VPA-VSS60Ex



VPA-VSS100

Features of VSS Dry Screw Vacuum Pumps:

- Rugged and Robust design. Capable of handling all types of gases, vapors and solvents.
- Capable of handling gases in radiation area like: Particle accelerators, Nuclear Waste Management
- Reduced discharge temperature greatly and close to T4 requirement for ATEX versions. 
- 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 that 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.
- Simple design results easy maintenance.
- Different internal coatings available based on application like Teflon, PFA and Hardened Screws for Harsh and Dusty applications.
- VPA-VSS Vertical Dry Screw Vacuum Pumps are available with TEFC, Water cooled, ATEX  and Explosion Proof  motors at different voltages like 3 phase motors at 380V, 400V, 415V, 460V and 575V @ 50/60Hz are available with UL, CSA and CE approvals
- VPA-VSS Dry Screw Vacuum Pumps can handle all types of petrochemical vapors, solvents and biologic vapors like: Acetone, Bio Diesel, Butane, Isobutene, Propane, Dimethyl Ether DME, Difluoroethane HFC, Tetrafluoroethane, Pentane, Carbon Dioxide, Methylated spirits, Methanol, Ethanol, Propanol, Xylene, Toluene, Methyl Ethyl Ketone, Alcohols, Benzene, Oxygen, Ozone, etc...
- VPA-VSS Dry Screw vacuum Pumps are completely adapted to Pharmaceutical, Chemical, Food and Radiation, applications.
- Standard 3 phase motors at 380V, 400V, 415V, 460V and 575V @ 50/60Hz are available with UL, CSA and CE approvals for all VPA-VSS Vertical Dry Screw Vacuum Pumps.

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

Specifications of VPA-VSS Vertical Dry Screw Vacuum Pumps:



















Model	Pumping Speed		Ultimate Pressure Torr	Power (kW) 60Hz	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	840 50 29.5	1000 60 35.5	1 x 10 ⁻³	3.7	6000	KF50	KF40	2.5	4	180
VPA-VSS100	1500 90 53	1666 100 59	1 x 10 ⁻³	5.5	5000	KF50	KF40	4	4 to 6	260

*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

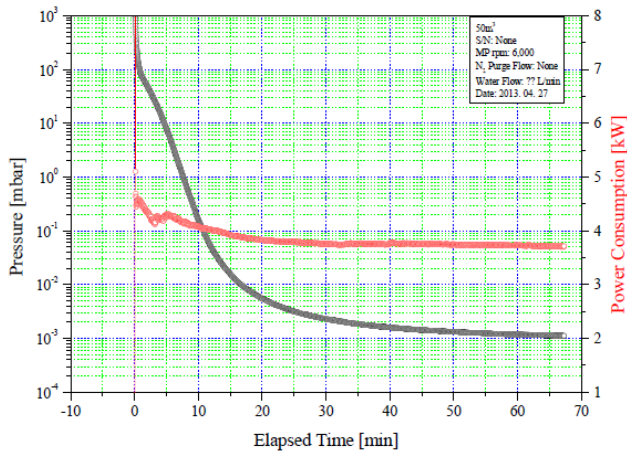
Applications of VPA-VSS Vertical Dry Screw Vacuum Pumps:

- Autoclaves
- Automotive
- Backing pump for high vacuum pumps
- Brake Fluid Filling Systems
- Brazing
- Casting
- Chemical Distillation 
- Chemical Processing 
- Chemical Laboratories 
- Chemical Vapor Deposition
- CVD Coating Systems
- Central Vacuum Systems 
- Debinderization
- Degassers 
- Degassing 
- Drying 
- Drying Chambers
- Evacuating of Refrigeration Systems
- 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 
- Laboratory
- Leak Detection of dry systems
- Light Bulb Manufacturing
- Liquid Gas Storage
- Metallurgy
- Metals Processing
- Oil Degassers 
- Nuclear Waste Management
- Packaging
- PET Processing
- Pharmaceutical Processes 
- Physical Vapour Deposition PVD Coating Systems
- Physics Laboratories
- Potting
- Research & Development
- Refineries 
- Roll Coating
- Silicon Crystal Growing
- Sintering
- Solvent Recovery 
- Solvent handling 
- Transformer Drying 
- Vacuum Coating
- Vacuum Furnaces
- Vacuum Heat Treating
- Vacuum Melting
- Vacuum Metalizing
- Vacuum Packaging
- Vacuum Metallurgy

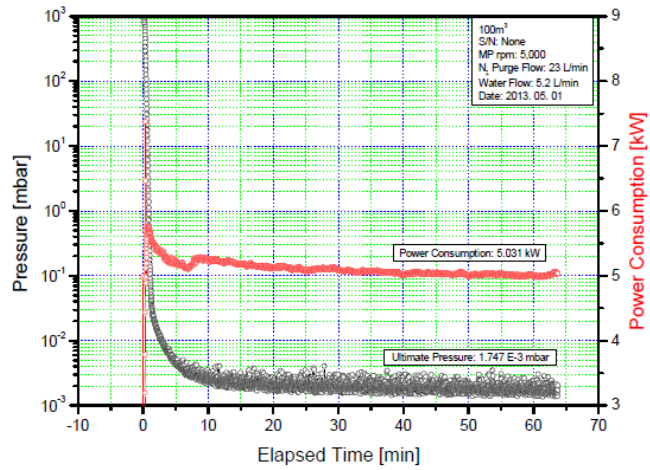
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Performance curves:

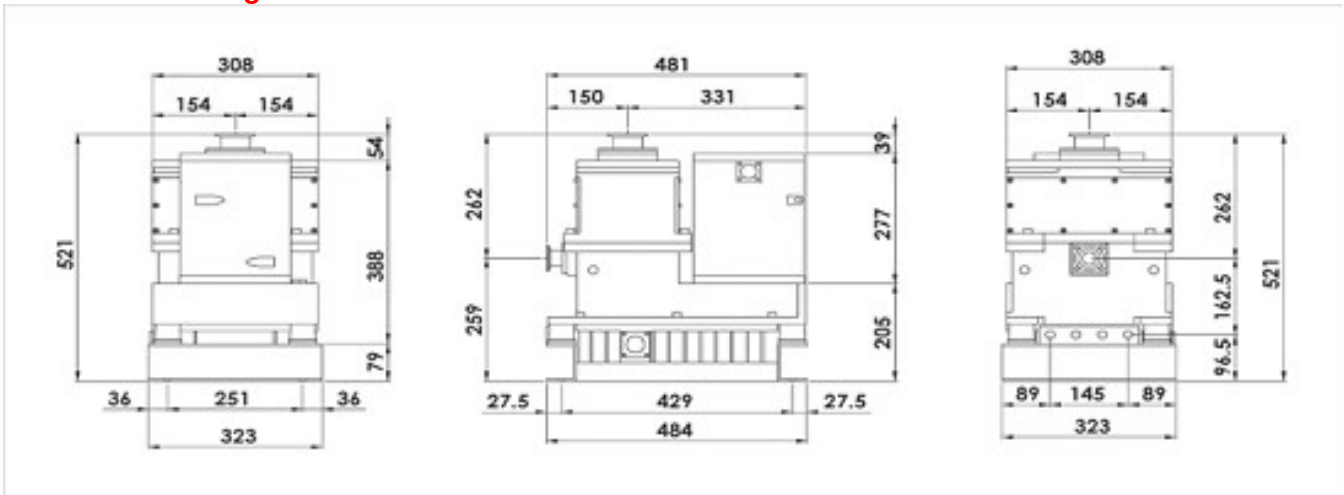


Pumping Speed & Power Consumption curves for VPA-VSS50

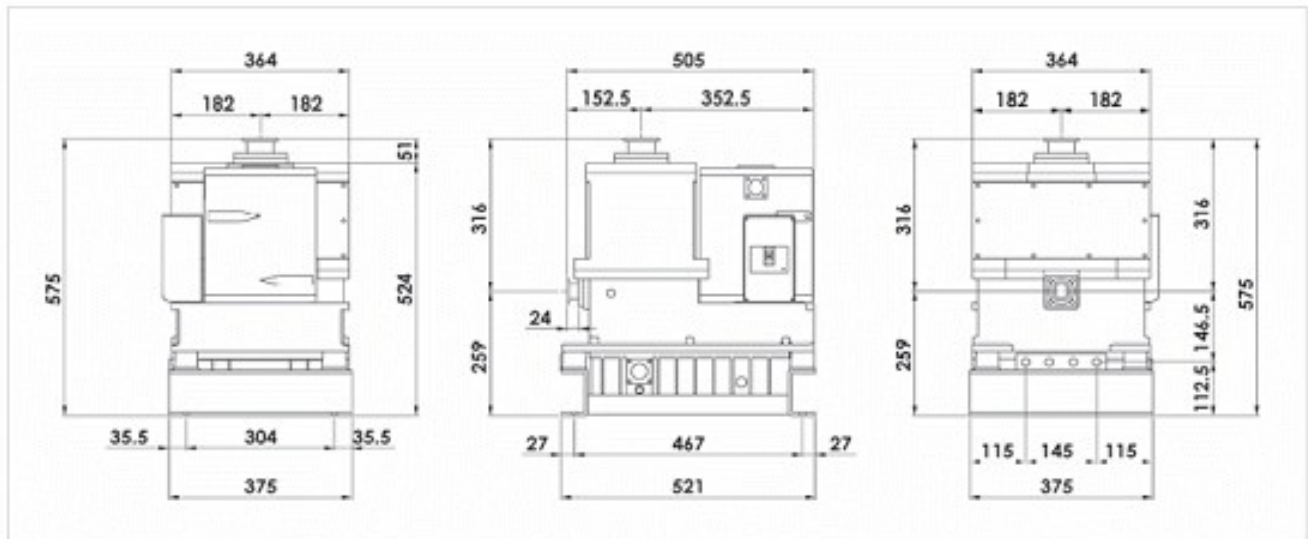


Pumping Speed & Power Consumption curves for VPA-VSS100

Dimensional drawings for VPA-VSS60 and VPA-VSS100:



Dimensions of VPA-VSS60





Dimensions of VPA-VSS100

*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 Vertical Dry Screw Vacuum Pumps as follows:

- TEFC Air Cooled
- TEFC Water Cooled
- ATEX 
- Energy efficient
- Explosion proof 
- Wash down
- All the above Motors are compatible with CE, CSA standards.

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