

Vacuum Pumps America Inc.

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 Stainless Steel Dry Screw Vacuum Pumps:

- Stainless steel structure, Corrosion Proof, Rugged and Robust design. Capable of handling all types of Corrosive Gases, Vapors, Solvents and Isotopes.
- Suitable for creating very clean vacuum in CIP and GMP applications.
- All wetted material including Vacuum Pump Housing and Screw Rotors are made of Stainless Steel.
- Capable of creating vacuum from 150 Torr for low vacuum applications to high vacuum down to 3×10^{-3} Torr
- 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 T6 requirements for Hazardous area
- Small foot print, compact design and proven quality.
- Low noise and vibration level due to precisely balanced screws.
- No use of Oil or Water as pumping medium, low operation costs and nearly maintenance free.
- 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. Designed based on CIP and GMP requirements.
- VPA-VSS-SUS Stainless Steel Dry Screw Vacuum Pumps are available with Air cooled, Water cooled, Nuclear Grade, 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 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, etc...
- VPA-VSS-SUS can be used in radiation area like Nuclear Reactors, Nuclear Waste Management facilities and can handle Hydrogen, Deuterium and other radioactive isotopes.

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








Model	Pumping Speed	Ultimate Pressure Torr	Power (kW) 60Hz	Motor Rotational Speed (min ⁻¹)	Port Size Quick Clamp KF Inlet/Outlet		Oil Capacity (L)	Cooling Water (L/ min)	Weight (kg) pump only
	L/min m ³ /h CFM								
VPA-VSS-SUS60	1000 60 35.5	5 x 10 ⁻³	3.7	3600	KF50	KF40	2.5	4 to 6	250
VPA-VSS-SUS100	1666 100 59	5 x 10 ⁻³	5.5	3600	KF50	KF40	3	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 Stainless Steel Dry Screw Vacuum Pumps:

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

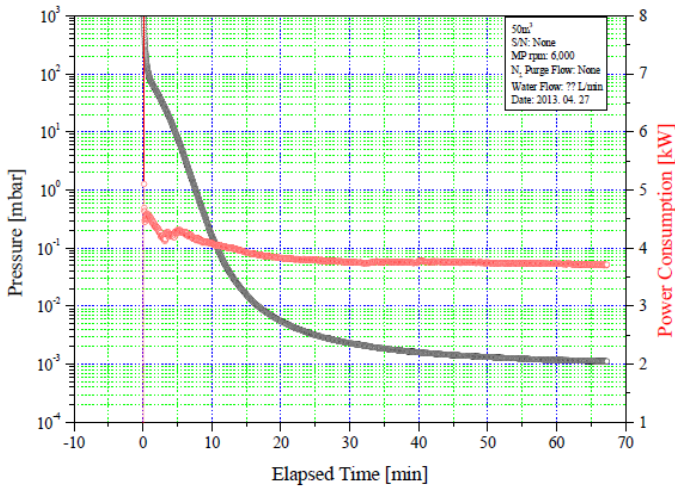
Evacuation of Process chambers 
Forming
Food Processing
Food Industry
Fermentation
Freeze Drying
Hazardous area 
Heat Treatment
Heat Exchanger Drying in Power Plants
Impregnating 
Investment Casting
Impregnation 
Isotope Separation
Laboratory
Leak Detection of dry systems
Light Bulb Manufacturing
Liquid Gas Storage
Metallurgy
Metals Processing
Oil Degassers 
Nuclear Waste Management
Nuclear Reactors
Packaging

PET Processing

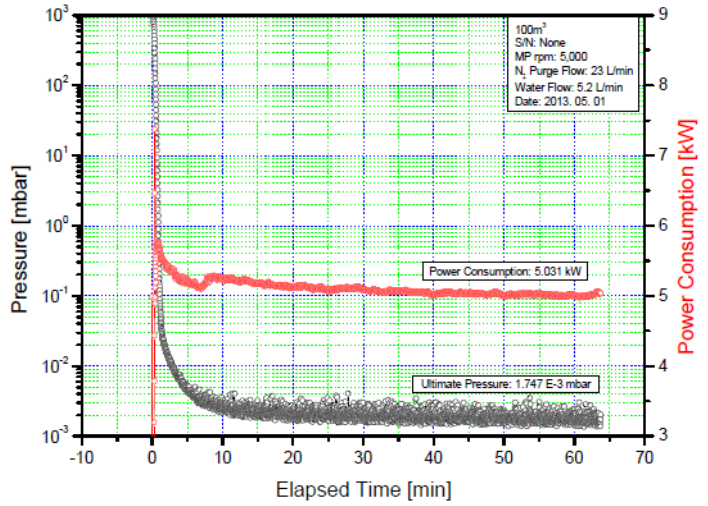
Pharmaceutical Processes 
Physical Vapour Deposition PVD PVD
Coating Systems
Physics Laboratories
Potting
Research & Development
Refineries 
Roll Coating
Semiconductor Industries
Semiconductors
Silicon Crystal Growing
Sintering
Space Simulation
Solvent Recovery 
Solvent handling 
Transformer Drying 
Vacuum Coating
Vacuum Furnaces
Vacuum Heat Treating
Vacuum Melting
Vacuum Metalizing
Vacuum Packaging
Vacuum Metallurgy

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Performance curves:

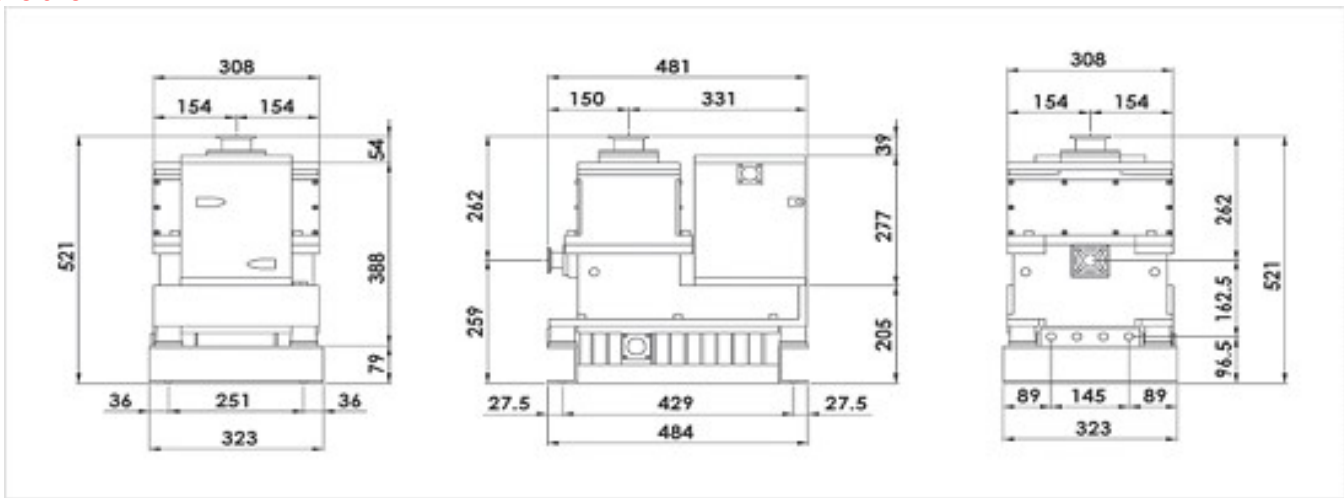


Pumping Speed & Power Consumption curves for VPA-VSS60-SUS

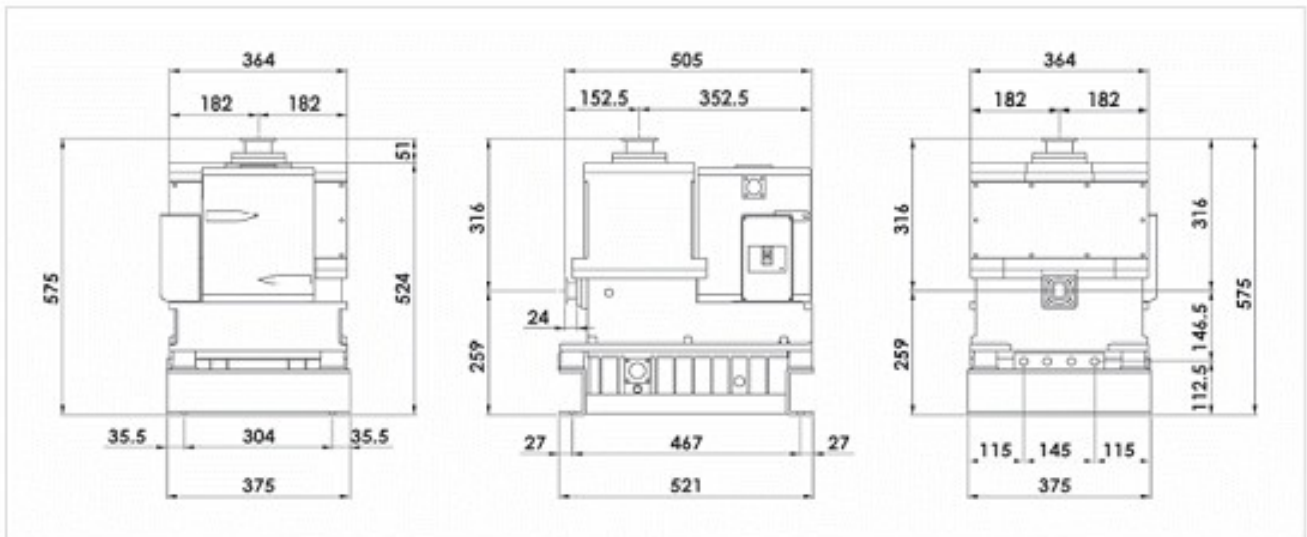


Pumping Speed & Power Consumption curves for VPA-VSS100-SUS

Dimensions:



Dimensions of VPA-VSS60-SUS



Dimensions of VPA-VSS100-SUS



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

**All dimensions are in millimeter.

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Different types of motors are available for VPA-VSS-SUS 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 other Classes, Divisions and Groups
- ATEX 
- Energy efficient
- Flame proof 
- Wash down
- Motors are compatible with CE, CSA or UL standards.

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