

# Vacuum Pumps America Inc.

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



VPA-VSS-SUS60Ex







VPA-VSS-SUS60Ex



VPA-VSS-SUS100

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

- Stainless steel and Corrosion Proof, Rugged and Robust design. Capable of handling all types of Corrosive Gases, Vapors and Solvents. Clean Vacuum, Oil Free Clean Vacuum.
- All wetted material including Vacuum Pump Housing and Screw Rotors are made of Stainless Steel.
- Capable of handling gases in radiation area ideal for: Particle accelerators, CANDU Reactors, Nuclear Waste Management, PWR Reactors, Semiconductor Industries, Food Processing and Pharmaceutical Industries.
- Reduced discharge temperature greatly close to T4 and T5 requirement for ATEX  and Ex  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 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 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, 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, Diflouroethane HFC, Tetraflouroethane, Pentane, Carbon Dioxide, Methylated spirits, Methanol, Ethanol, Propanol, Xylene, Toluene, Methyl Ethyl Ketone, Alcohols, Benzene, etc...
- VAP-VSS-SUS can be used in radiation area like Nuclear Reactors, Nuclear Vaste Management facilities and can handle Hydrogen, Deutrium and other radioactive isotopes.

**e-mail: [sales@vpamerica.com](mailto:sales@vpamerica.com) , Phone: 416-407-0350**

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








Model	Pumping Speed	Ultimate Pressure Torr	Power (kW) 60Hz	Motor Rotational Speed (min <sup>-1</sup> )	Port Size Quick Clamp KF Inlet/Outlet		Oil Capacity (L)	Cooling Water (L/ min)	Weight (kg) pump only
	L/min m <sup>3</sup> /h CFM								
VPA-VSS-SUS60	1000 60 35.5	1 x 10 <sup>-3</sup>	3.7	3600	KF50	KF40	2.5	4 to 6	200
VPA-VSS-SUS100	1666 100 59	1 x 10 <sup>-3</sup>	5.5	3600	KF50	KF40	3	4 to 8	300

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


\*\* To convert m<sup>3</sup>/h to CFM, divide by 1.69

Example: 100 m<sup>3</sup>/h ÷ 1.69= 72CFM

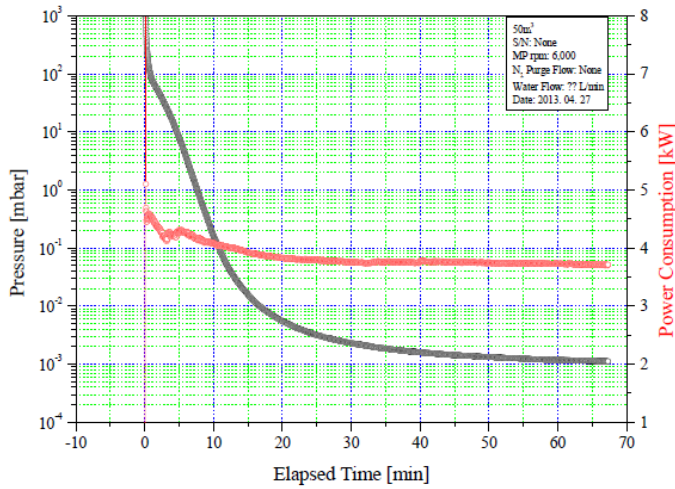
## Applications of VPA-VSS-SUS Stainless Steel Dry Screw Vacuum Pumps:

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

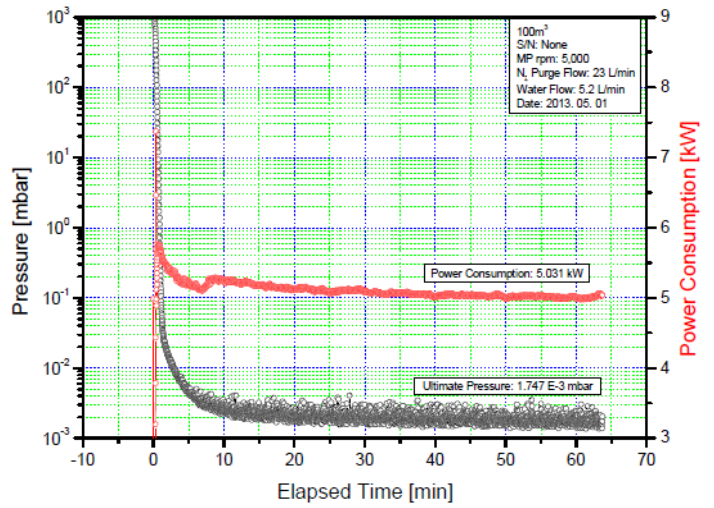
Evacuation of Process chambers   
Forming  
Food Processing  
Food Industry  
Fermentation  
Freeze Drying  
  
Hazardous area   
Heat Treatment  
Heat Exchanger Drying in Power Plants  
  
Hazardous Area   
Impregnating   
Investment Casting   
Impregnation   
Isotope Separation  
Laboratory  
Leak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

Nuclear Reactors  
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  
e-mail: [sales@vpamerica.com](mailto:sales@vpamerica.com),  
Phone: 416-407-0350

**Performance curves:**

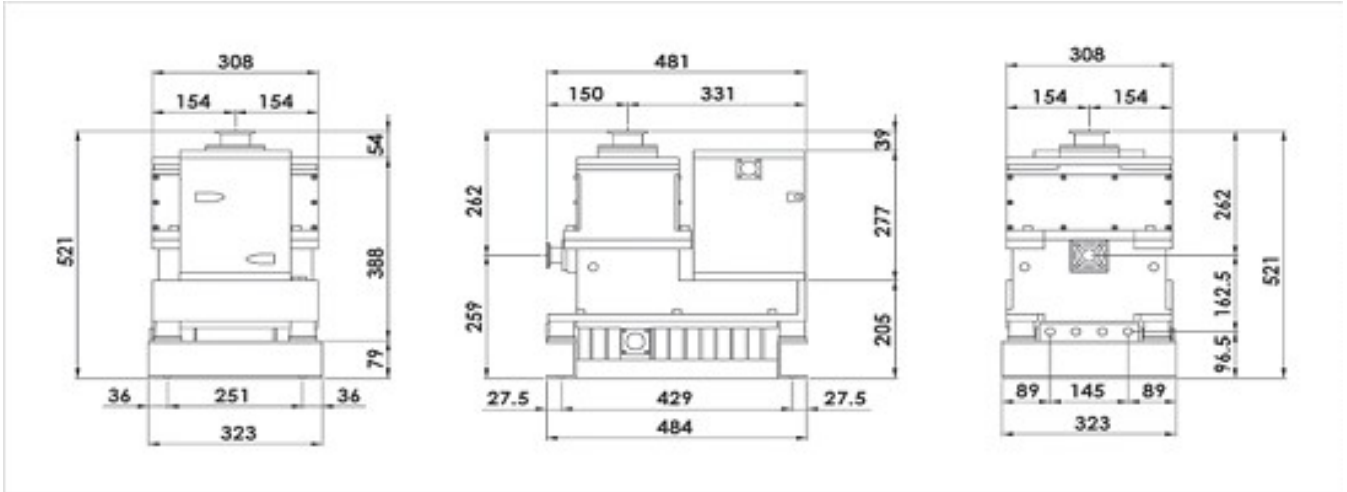


Pumping Speed & Power Consumption curves for VPA-VSS50

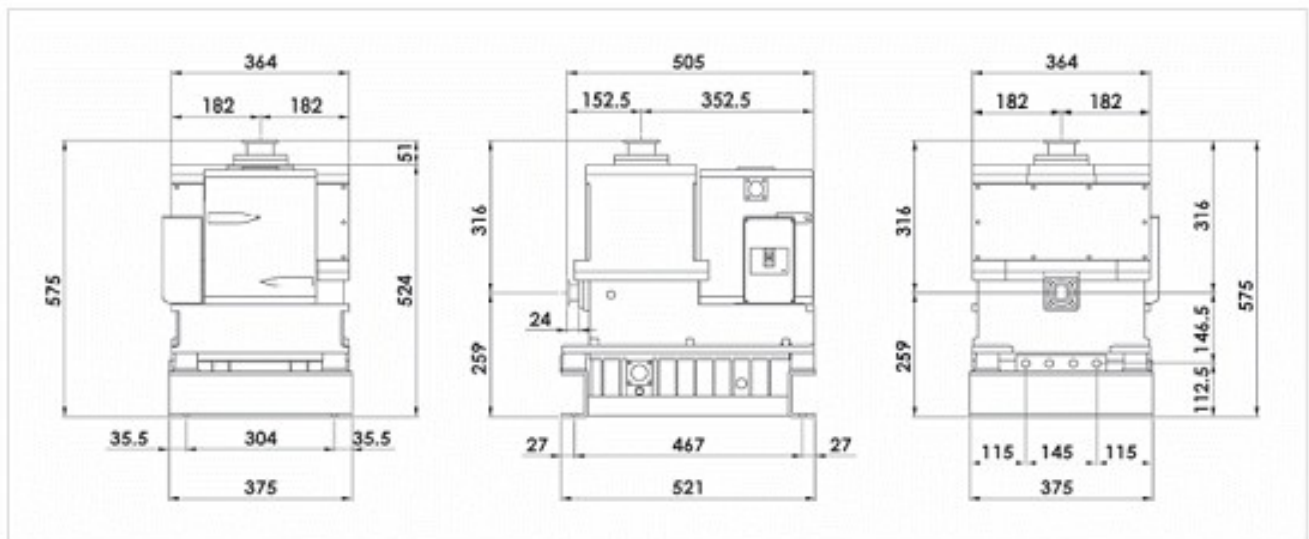


Pumping Speed & Power Consumption curves for VPA-VSS100

**Dimensions:**



**Dimensions of VPA-VSS-SUS60**





**Dimensions of VPA-VSS-SUS100**

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

\*\*All dimensions are in millimeter.

**e-mail: [sales@vpamerica.com](mailto:sales@vpamerica.com), Phone: 416-407-0350**

**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
- ATEX 
- Energy efficient
- Flame proof 
- Wash down
- Motors are compatible with CE, CSA or UL standards.

**e-mail: [sales@vpamerica.com](mailto:sales@vpamerica.com), Phone: 416-407-0350**