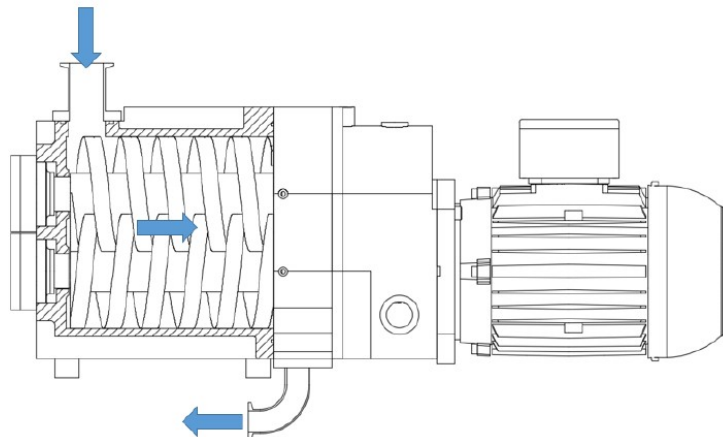


# Vacuum Pumps America Inc.

## Air Cooled Dry Screw Vacuum Pump VPA-ASP50 & VPA-ASP50/Ex



### Features of VPA-ASP50 and VPA-ASP50/Ex, Air Cooled Dry Screw Vacuum Pumps:

- Air cooled design. No need for water cooling, heat exchanger or any other cooling liquid.
- Corrosion Proof, Rugged and Robust design. Capable of handling all types of Corrosive Gases, Organic Vapors, Organic Solvents, Oxygen, Ozone, etc.....
- Suitable for creating clean vacuum and oil free clean vacuum.
- All wetted material including Vacuum Pump Housing and Screw Rotors are TEFLON Coated.
- Capable of handling all types of gases in any application ideal for: Pharmaceutical Industries, Food Processing Plants, CBD and THC Extraction Plants, Particle accelerators, CANDU Reactors, Nuclear Waste Management, PWR Reactors, Semiconductor Industries, Bio-Fuel processing etc.
- Reduced discharge temperature greatly to T4 for Hazardous area including Explosion Proof versions



and ATEX versions



- Small foot print, compact design and proven quality.
- Low noise and vibration due to completely balanced screws.
- No use of Oil or Water as pumping medium, low operation costs and low cost of ownership.
- No oil back migration and no oil back streaming.
- Advanced design for Screw Rotors doesn't let the bearings and seals come in contact with gases, vapors and even liquids.
- Gravity drain for liquids and condensations through the exhaust silencer and trap.
- High Performance and High Efficiency.
- Short gas path through the pump makes quick gas discharge.
- Easy on-site maintenance and cleaning.
- VPA-ASP50 and VPA-ASP50/Ex Dry Screw Vacuum Pumps are available with Regular, Explosion



Proof , ATEX and Stainless Steel motors at different voltages: 380V, 400V, 415V, 230/460V and 575V @ 50/60Hz with CE, CSA or UL approvals.

- VPA-ASP50/Ex are Air Cooled Dry Screw Vacuum Pumps and can handle all types of Corrosive gases, Petrochemical vapors, Organic Solvents and Biologic vapors in hazardous area 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, Acetates, Ethylene Dichloride, Pentane, Adhesives, Ethylene Oxide, Phenol, Aldehydes, Fatty acids, Phosgene, Glycerides, Phosphoric Acid, Amines, Halides (HCl, HBr, HF), Polycarbonates, Aromatics, Hexane, Polyglycols, Ammonia, Hydrocarbons, Sulphides, Benzene, Hydrogen, Sulphuric Acid, Biofuels, Isocyanates, Siloxanes, Bromides, Ketones, Thionyl Chloride, Chlorides, Mineral acids, Dimethyl Sulphide, Triethylamine, Diols, etc..

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

## Specifications of VPA-ASP50 & VPA-ASP50/Ex Air Cooled Dry Screw Vacuum Pumps:








Model	Pumping Speed L/min m <sup>3</sup> /h CFM		Ultimate Pressure (Torr)	Power (kW)	Motor Rotational Speed (min <sup>-1</sup> )	Inlet	Outlet	Nitrogen Purge Pressure (psig)	Oil Capacity (L)	Estimated Weight (kg)
VPA-ASP50 & VPA-ASP50/Ex	@ 50Hz 700 42 25	@ 60Hz 833 50 30	7.5 x 10 <sup>-3</sup>	2.2	3600	KF40	KF25	7.25 to 29	0.25	110

\*Operating Temperature: 5°C to 25°C

\*\*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

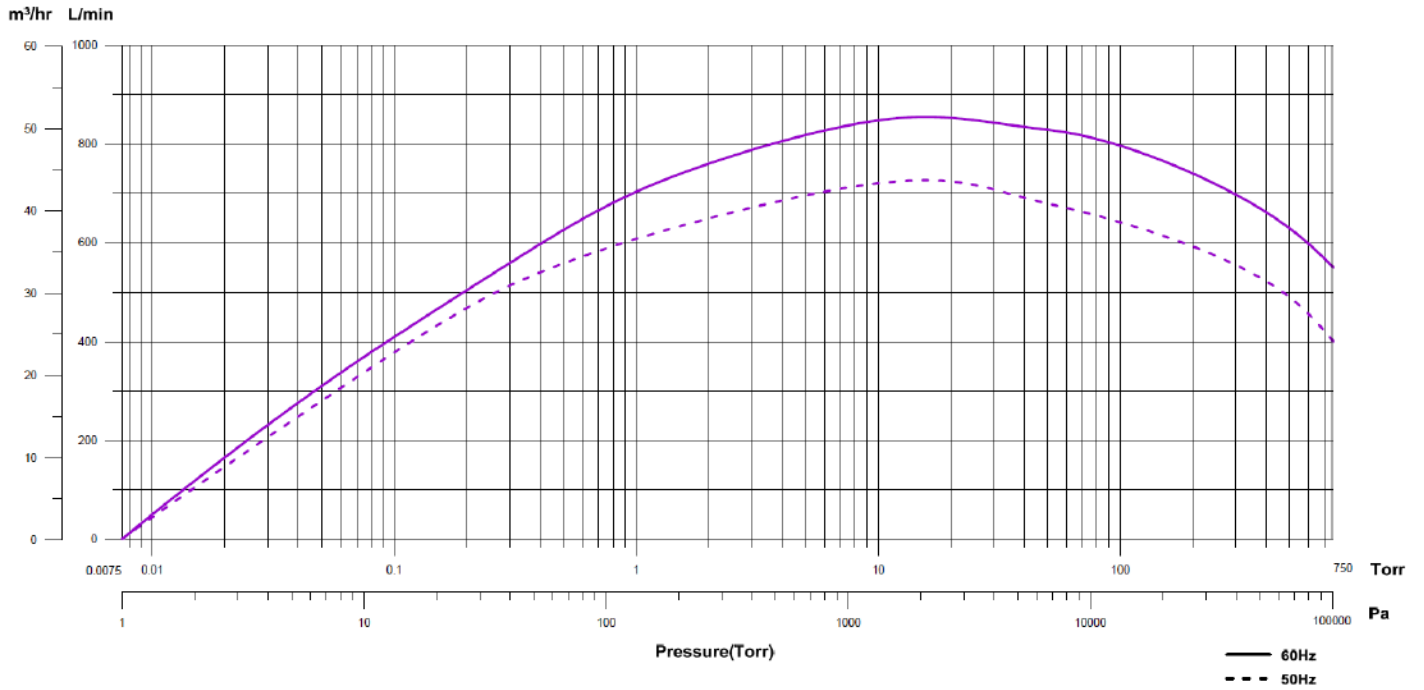
## Applications of VPA-ASP50 & VPA-ASP50/Ex Air Cooled Dry Screw Vacuum Pumps:

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

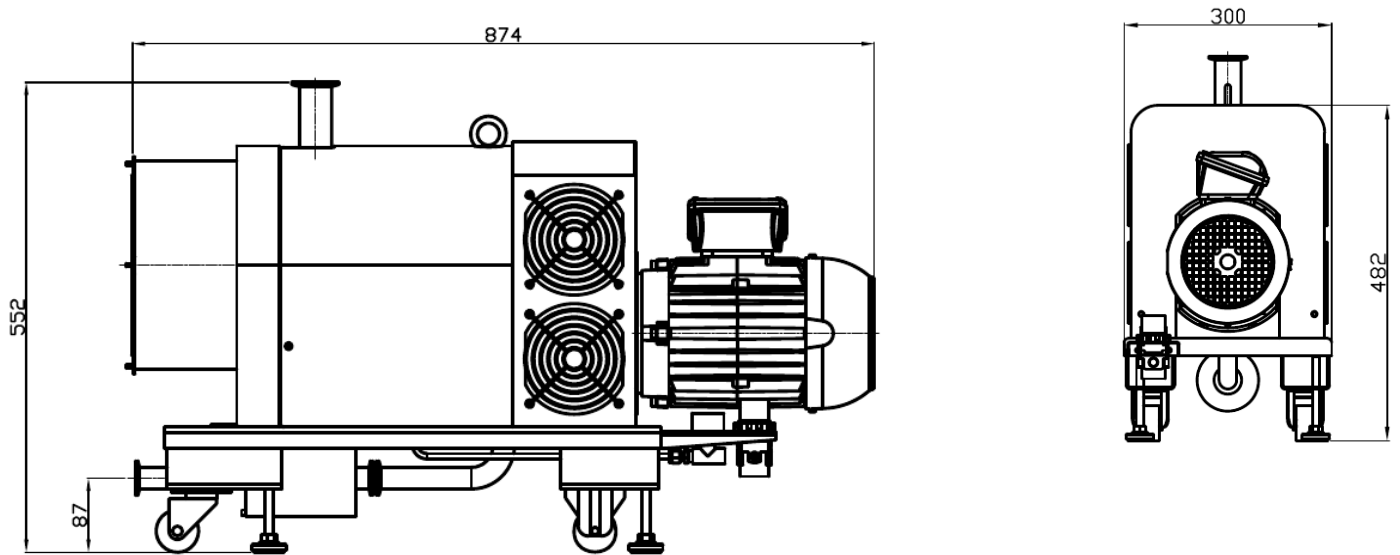
Evacuation of Process chambers   
Forming  
Food Processing  
Food Industry  
Fermentation  
Freeze Drying  
  
Hazardous area   
Heat Treatment  
Heat Exchanger Drying in Power Plants  
  
Hazardous Area   
Impregnating   
Investment Casting   
Impregnation   
Isotope Separation  
Laboratory  
Leak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

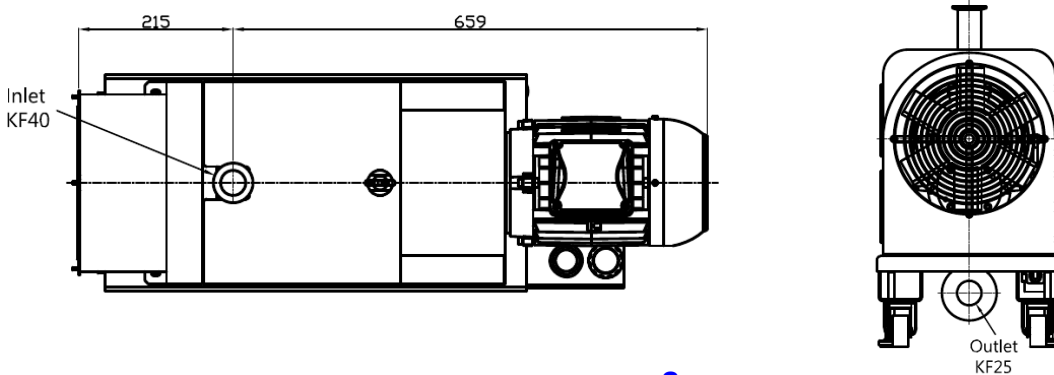
## Performance curves for VPA-ASP50 and VPA-ASP50/Ex:





## Dimensions for VPA-ASP50 and VPA-ASP50/Ex Air Cooled Dry Screw Vacuum Pump



\*Length for the VPA-ASP50/Ex is slightly different. All dimensions are in millimeter.



**Different types of motors available for VPA-ASP50 Air Cooled Dry Screw Vacuum Pumps as follows:**

- Explosion proof, Class 1, Division 1, Group C&D. Other Classes, Divisions and Groups available upon request.
- ATEX 
- Conventional TEFC
- Energy efficient
- Flame proof 
- Stainless Steel and Wash down
- Motors are compatible with CE, CSA or UL standards.

For more information, please contact: **E-mail: [sales@vpamerica.com](mailto:sales@vpamerica.com) or Phone: 416-407-0350**