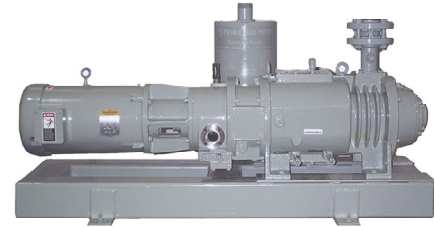


# PFS DRY SCREW VACUUM PUMPS

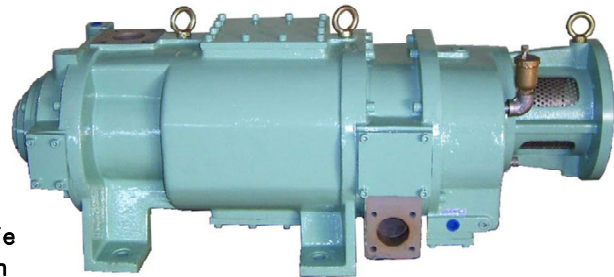
## DRY-VAC SERIES

The Dry-Vac single stage screw vacuum pump was designed especially for difficult applications in the chemical and pharmaceutical processing industries. The pump offers greater efficiency and lower maintenance than other types of dry vacuum pumps because of its unique and simple short pitch rotary screw design. The rotor provides a synchronous rotation with no parts coming in contact with each other with less power consumption and low discharge temperature.



### FEATURES & ADVANTAGES

- Low operational cost
- Low discharge temperature
- Single stage – no intercoolers required
- Low vibration and noise levels
- Non-contacting parts – longer operational life
- Clean vacuum – water and oil free operation
- No contaminants, No pollutants
- High volume, efficient screw design – less power consumption
- Short gas path – prevents condensation, product build-up and corrosion
- Only two rotors rotate in cylindrical housing without touching
- Simple design – fewer parts, easier maintenance and cost effective
- Small footprint area – robust configurations yet less space requirements
- The robust design allows the handling of some process byproducts (condensate, dust)
- Optional N<sub>2</sub> Purging systems – for flushing of toxic and condensate process gases
- Optional internal coating – protective PTFE, PFA high coating
- Full capacity from atmosphere down to 1 Torr with ultimate pressure of 0.1 Torr or less



### MATERIALS OF CONSTRUCTION

- Screw Rotor: Ductile Iron
- Casing, Side Plate: Ductile Iron
- Timing Gear: Ground Helical Type

### SEAL CONFIGURATION

- Shaft Seal:
  - Drive Side – Mechanical Seal & Viton Oil Seal
  - Non Drive Side – Teflon Lip Seal
- Seal Sleeve: Stainless Steel
- Oil Seal: Viton (Gear Box)

### STANDARD ACCESSORIES

- Directly Coupled to NEMA C-Face Motor
- Discharge Silencer
- Suction Check Valve

### COATING: (Casing, Screw, Rotor)

- Standard: Teflon (Special: Nickel)

### O-RINGS:

- Standard: Viton (Special: Kalrez)

### OPTIONAL ACCESSORIES

- Seal gas pressure and flow switches
- Cooling water flow control system
- Discharge gas temperature switch
- Temperature gauges
- Inlet particulate suction filter
- Knock-out pot (with inlet suction filter)
- Automatic solvent flushing package
- Automatic Start / Stop purge package
- Automatic pressure control system
- Electrical control panel
- Pre-condenser / after condenser



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4460 Harvester Rd. Burlington, Ont. Canada, L7L 4X2  
Tel: 1-800-461-2611 or (905) 637-2611 Fax: (905) 333-4722  
Email: info@pfspumps.com Website: www.pfspumps.com

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