

# POWEREX MAINTENANCE REQUIREMENTS

## Medical vacuum and laboratory vacuum maintenance

### ROTARY CLAW PUMPS

- Intake filter  
Inspect 500 hours or quarterly  
Replace 2500 hours or yearly
- Pump fins, cooler, and blower  
Inspect quarterly  
Clean every 6 months or if dirty
- Gear case oil  
Replace yearly  
(Busch recommends 20,000 hours or 6 years)  
(Rietschle only 5000 hours or yearly)
- Grease pump bearings  
Replace yearly  
(Rietschle only 5000 hours or yearly)
- Oil vent cap  
Replace yearly
- Oil level and check for leaks  
Customer to check daily/weekly  
Technician to check quarterly
- Motor  
Grease yearly

### LUBRICATED ROTARY VANE PUMPS

- Intake filter and inlet screen  
Inspect 500 hours or quarterly  
Replace 2500 hours or yearly
- Pump fins, cooler, and blower  
Inspect quarterly  
Clean every 6 months or if dirty
- Exhaust filters  
Inspect differential quarterly  
Replace 2500 hours or yearly
- Oil  
Replace 500 hours or yearly
- Oil filter  
Replace 500 hours or yearly
- Oil level and check for leaks  
Customer to check daily/weekly  
Technician to check quarterly
- Motor  
Grease yearly

### DRY ROTARY VANE PUMPS

- Intake filter and inlet screen  
Inspect 500 hours or quarterly  
Replace 2500 hours or yearly
- Pump fins, cooler, and blower  
Inspect quarterly  
Clean every 6 months or if dirty
- Discharge filter  
Inspect 2000 hours or yearly  
Replace if necessary
- Grease  
Apply grease to bearing in end shield every 2000 hours or yearly
- Second cooling filter (larger pumps only)  
Inspect 2000 hours or yearly  
Replace if necessary
- Pump vanes  
Inspect 8000 hours or yearly  
Replace if less than manual size recommendation
- Motor  
Grease yearly

### VACUUM SYSTEM CONTROLS

(same for all three pump types)

- Inlet check valve  
Inspect quarterly
- Tank sight glass  
Customer to check daily/weekly  
Drain tank if visible liquid is present
- Vacuum switch/transducer operation  
Inspect quarterly  
Test yearly
- Vacuum gauge  
Inspect quarterly
- Test purge control and valves (laboratory vacuum only)  
Inspect quarterly
- Purge inlet filter (laboratory vacuum only)  
Inspect quarterly  
Replace 2500 hours or yearly