

Sealless Leakproof Pumps for Fuming Acids

Experience

- Manufacturer of sealless, leak proof Canned Motor pumps for over 50 years.
- Pumping Sulfur Trioxide, Oleums and Chlorosulfonic acids for over 45 years.
- Proven bearing, journal, and flow configurations for fuming acids services.
- Providing axial and radial rotor position monitoring for over 10 years.
- Active continuous Improvement Program using 6σ and Lean Manufacturing techniques.



Chemump NC Series Submerged Pump

Design

- **Sealless, Leakproof Pump:** No dynamic rotating seals. Acids can't leak out, nor can they be contaminated by the environment.
- **Secondary Containment:** Eliminates the possibility of leakage of these dangerous fluids into the environment.
- **Built to National Standards:** Meets ASME B73.3 and ANSI/HI 5-1-5.6 Sealless Centrifugal Pump Standards.
- **State of the Art Diagnostic Systems:** TRG or IntelliSense™ diagnostic systems offer Real-Time Bearing Wear Monitoring providing preventative and predictive maintenance capabilities.
- **Multiple Bearing Systems:** Carbon Graphite, Silicon Carbide or Aluminum Oxide materials available based on service.
- **Bearing Flush Arrangements:** Standard, Pressurized and Reverse Circulation available based on service.
- **Multiple Configurations:** Horizontal, Vertical or Submerged designs. Submerged pumps can be mounted in stationary or over-the-road tanks.
- **Temperature Monitoring:** Thermowells with thermocouples for temperature monitoring.
- **Temperature Control:** Steam Jacket available for temperature control.
- **Corrosion Resistant:** Standard materials of construction include 316SS, CA20, and Hastelloy C.
- **Submerged Designs:** Can be mounted directly into the fuming acid tank. This compact design eliminates unwieldy shaft extensions, shaft alignment, mechanical seals or the need to control the temperature of the pump.

Features and Benefits

- **Safety** - Secondary containment standard.
- **Leakproof** - No dynamic seals.
- **Diagnostics** - Indicates bearing wear as well as real time position of the rotating assembly.
- **Project Life Savings** - When installed with a Diagnostic Monitor predictive and preventative maintenance will avoid costly failures.
- **Enhanced Reliability** – Only two bearings and one rotating assembly. Simple design with no alignment required.
- **Space Savings** - 1/3 the size of comparable frame mounted pumps.
- **Spare Parts** – Common wear components that are interchangeable across product ranges.
- **Service** – Fully staffed service centers located across the country.
- **Noise Reduction** – Operates less than 85 dBa.



Teikoku Canned Motor Pump

QA Testing & Certification Options

- Lethal Service design constructed to Section VIII of the ASME Pressure Vessel Code.
- Material traceability and certification (CMTRs).
- Welding certification to ASME Section IX.
- Radiography of castings and/or welds.
- Liquid penetrant inspection of welds.
- Certified performance test.
- Certified NPSH test.
- Certified hydrostatic, pneumatic and/or helium leak testing of primary and secondary pressure boundary component.
- Special cleaning and passivating of internal, wetted parts.
- FM, CSA or European Underwriting for hazardous area classifications.



Chempump NC Series

