

THERMOJET® G3000/3500

PRODUCT SPECIFICATION SHEET

The ThermoJet® Oil Purifier by Colfax Fluid Handling's Reliability Services is a state-of-the-art, on-line industrial oil-purification system that removes free, emulsified and dissolved water and light hydrocarbons from industrial lubricants and hydraulic oils. The unique air/gas stripping technology employed by the ThermoJet® Oil Purifier makes it practical and efficient—allowing the ThermoJet® Oil Purifier to outperform centrifuges, coalescers and the more complex vacuum dehydration systems.

FEATURES

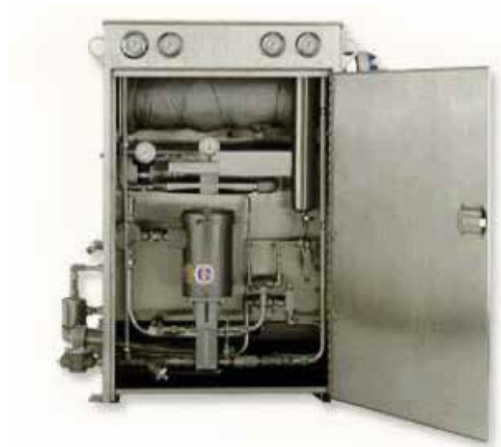
- Electric heater
- Proprietary dual-stage jet mixer
- Corrosion-resistant stainless steel construction
- Particulate filtration to ISO 13/10
- 2 close-coupled gear pumps driven by single motor
- Process flow rate at 180 gph (680 lph)
- Available in various international voltages
- Certified to ATEX-CAT3
- Unit for Class I, Division 2, Groups B/C/D areas; CSA listed & ATEX Zone 2 certified (Model 3000)
- Unit for Class I, Division 1, Groups C/D Areas; CSA listed & ATEX Zone 2 certified (Model 3500)

BENEFITS

- No waste-oil disposal
- Flash point and viscosity return to normal
- No gases exhausted to atmosphere, eliminating EPA penalties for emissions
- No need to retrofit expensive dry gas seals
- No explosive safety hazard
- No machinery failures due to poor quality oil
- Greatly reduces new oil purchases

APPLICATIONS

- Removes not only free water, but also emulsified and dissolved water
- Keeps compressor, turbine lube oil and hydraulic systems water free
- Removes water from oil containing 1000 ppm to less than 100 ppm within eight passes of the oil through the unit
- Removes dissolved light hydrocarbon gases, such as propane and H₂S from industrial lubricants
- Ideal application for removal of hydrogen sulfide from compressor seal oil in refineries and petrochemical plants
- Returns viscosity of lube oil and restores oil flash point to like-new levels, eliminating the need to dispose of gas-laden and sour lube oils



ThermoJet® G3000/3500 Series

OPERATIONAL BENEFITS

- Increased machinery reliability: no machinery failures due to poor oil quality
- All forms of water removed to below 100 ppm
- Eliminate oil changes by always keeping oil like new
- Eliminate new oil purchases and reduce oil inventories
- Reduce particle filtration: Water catalyzes rust and corrosion formation, which produces sludge. When oil is maintained with water contamination below 100 ppm, corrosion, rust and sludge are eliminated, and filter changes are significantly reduced
- Zero disposal of waste oil
- No drum disposal

ENVIRONMENTAL BENEFITS

- Removes water and gaseous contaminants from industrial lubricating oil without contaminating the environment
- All systems are equipped with purifiers that absorb oil from the water condensate before it exhausts from the unit
- Documented tests show that the water discharged can be drained into a sanitary sewer because it contains hydrocarbons below eight ppm (EPA limit is 15 ppm)

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Reliability Services

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