

THERMOJET® H4000/4500

PRODUCT SPECIFICATION SHEET

Colfax Fluid Handling's Reliability Services Oil Purifier 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 Cleanliness Code 15/13/10
- 2 close-coupled gear pumps driven by single motor
- Process flow rate at 550 gph (2,100 lph)
- 0-8 ppm oil discharge in condensate, far surpassing EPA regulations of 15 ppm for "clean" sewers
- Available in various international voltages
- Unit for Class I, Division 2, Groups B/C/D areas; CSA listed
- Unit for Class I, Division 1, Groups C/D areas; CSA listed

BENEFITS

- Removes all three forms of water
- No waste-oil disposal
- Improved machinery reliability
- No machinery failures due to poor quality oil
- No oily discharge
- No emissions penalties from environmental agencies
- 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® H4000/4500 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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Fluid Handling

RELIABILITY
SERVICES