



ThermoJet® OIL PURIFICATION SYSTEMS

For oil purification levels superior to competing technologies and a direct benefit to the bottom line.

ThermoJet® Oil Purifiers provide an advanced and effective method of purifying industrial lubricants, hydraulic oils and similar fluids. Using the principal of air/gas stripping, ThermoJet removes contaminants such as dissolved gases, light hydrocarbons and water to return lubricants to like-new condition without any impact on the oil's additives or properties.

A proprietary, patented technology provides purification to levels that cannot be achieved with competing oil purification technologies. ThermoJet is effective on a wide range of oils and viscosities (ISO 32-460) and delivers an environmentally clean discharge that meets EPA standards.



OPERATIONAL BENEFITS

Refineries, petrochemical and chemical processing applications can reduce downtime and equipment failures as ThermoJet enhances overall lubricant integrity, a direct benefit to the bottom line. It is available in two different series:

H-Series utilizes air to dehydrate lube oils, effectively operating on all three phases of water: free, emulsified and dissolved. For example, lubricant with a water content of 1,000 ppm can be improved to less than 100 ppm within eight to ten passes of oil through the unit. The **H-Series** is available in two capacities:

- ☑ Model 2000 has a flow rate of 180 gallons per hour, and removes one gallon of water per hour from contaminated lube oil, depending on how “wet” the oil is.
- ☑ Model 4000 has a flow rate of 550 gallons per hour and removes three gallons of water per hour.

G-Series provides degassing services for seal oils, utilizing nitrogen, effectively removing dissolved light hydrocarbon gasses such as propane and hydrogen sulfide, restoring the oil flash point to like-new levels.

An extremely efficient, practical method of lubricant system purification, ThermoJet employs a unique air/gas stripping technology that outperforms centrifuges, coalescers and vacuum dehydration systems. ThermoJet’s advanced technology makes air stripping a viable option due to mixing and intimate contact of air/gas with the lubricant being cleaned. It operates on the principle that the capacity of a gas to entrain moisture increases exponentially with temperature – for example, air entrains 30 times more water at 180°F than at 70°F.

ThermoJet is CSA listed for Class 1, Div 1 and 2, Groups B/C/D areas; ATEX Zone 2, Gas Group IIC certified.

Operational Benefits Summary

- ☑ Increases customer machinery reliability, reducing failure due to poor lubricant condition
- ☑ Removes all forms of water to below 10 ppm. Properly maintained oil, with water contamination below 100 ppm, will eliminate corrosion, rust and sludge, significantly reducing filter replacement
- ☑ Eliminates the need for oil changes by maintaining “like-new” oil
- ☑ Eliminates the need for new oil purchases and reduces oil inventories
- ☑ Reduces particulate contamination through integrated filtration
- ☑ Delivers greater reliability compared to vacuum dehydration and other technologies; ThermoJet is virtually maintenance-free due to mechanical simplicity and few moving parts
- ☑ Minimizes utility requirements; only electrical power required for water removal, or a nitrogen supply for degassing

ENVIRONMENTAL BENEFITS

The process does not contaminate the environment; all ThermoJet systems are equipped with absorbent media that remove oil from the water condensate before it is exhausted from the unit. Water discharged from the process contains hydrocarbons below 8 ppm, well below the EPA limit of 15 ppm; this allows direct discharge into sanitary sewers.

Environmental Benefits Summary

- ☑ Removes water and gaseous contaminant without environmental contamination
- ☑ Allows for water to be discharged to sanitary sewer as it contains hydrocarbons below 8 ppm (EPA limit is 15 ppm)
- ☑ Eliminates the need for disposal of waste oil
- ☑ Eliminates the need for drum disposal

ThermoJet Oil Purification Systems are designed to provide an effective, environmentally sound method of reducing contaminants in your lubrication system – all a part of the Colfax Fluid Handling Reliability Services commitment to keep you **Up and Running.**



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