

ThermoJet® Oil Purifier

Moisture Removal to Ultra-low Levels

Water Removal

THE THERMOJET OIL PURIFIER PROVIDES YOUR MAINTENANCE DEPARTMENT WITH AN EFFICIENT TOOL TO REMOVE HIGH CONCENTRATIONS OF WATER FROM LARGE RESERVOIRS WHILE EQUIPMENT IS IN OPERATION.



BENEFITS

Simple Operation

The ThermoJet® works on the principal of air stripping. The use of air or nitrogen bubbled through contaminated liquids has long been used to remove contaminants. But the use of this technique was restricted because the volume of gas required was large due to limited mixing of the gas with the liquid. The unique technology embodied by the ThermoJet® makes air/gas stripping practical and efficient because of the mixing and intimate contact of the air/gas with the fluid being cleaned.

Water Removal

The ThermoJet® Oil Purifier not only removes free water it also removes emulsified and dissolved water meaning compressor, turbine lube oil and hydraulic systems can be kept water-free. This results in improved reliability of machinery and also eliminates the need for frequent change of lube oil. The ThermoJet® out performs other equipment such as settling tanks, coalescing filters and centrifuges.

Environmental Cleanliness

ThermoJet® Oil Purifiers remove water and gaseous contaminants from industrial lubricating oil without contaminating the environment in which they operate. All ThermoJet® Oil Purifiers are equipped with the condensate purifier assembly that absorbs oil from the water condensate before it exhausts from the unit. Documented tests show that the water discharged can be put into a sanitary sewer since the contained hydrocarbon is below 8 parts per million. (EPA limit is 15 PPM)

FEATURES

- Simplicity = Reliability & Maintainability
- Choice of Steam or Electric Heater
- Corrosion-Resistant Stainless Steel Construction
- Particulate Filtration to ISO 13/10
- 2 Close-Coupled Gear Pumps Driven by Single Motor
- Streamlined Instrumentation with Panel Mounted Gauges
- Enclosed Cabinet Design with Hinged Door for Easy Access
- CSA Listed for Class 1 Division 2 Groups B/C/D T4
- Available in Various International Voltages
- Oil Vapor Discharge Well within OSHA Standards
- 0-8 PPM Oil Discharge in Condensate, Far Surpassing EPA Regulations
- Process Flow Rate 180 GPH (680 lph)

OVERVIEW

- Remove the water from lubricant instead of dumping good oil.
- Reduce 1000ppm of water to 100ppm of water in 5 passes.
- Remove both free water and emulsified water.
- Clean discharge water to below EPA standards.

RENTAL OPTIONS

ThermoJet units are available for weekly and monthly rental.



PROACTIVE LUBRICATION MANAGEMENT

ThermoJet® Oil Purifier

Moisture Removal to Ultra-low Levels

PRODUCTS

ThermoJet Oil Purifier
[H2000E-D-BL-01]



Cart-Mounted ThermoJet
[H2000E-D-PB-01]

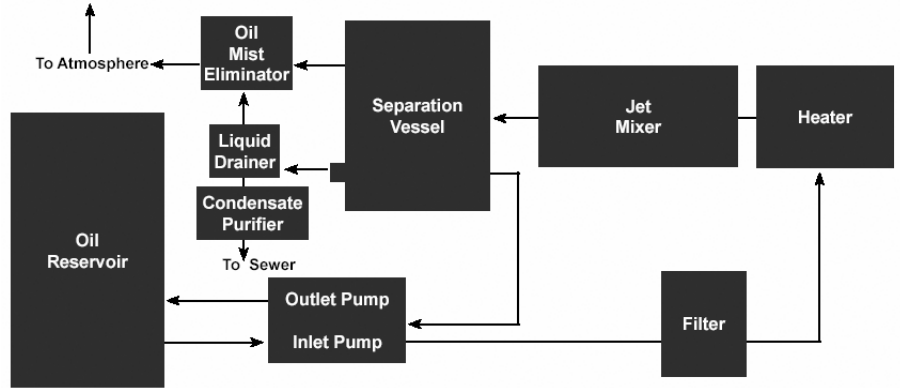


Trailer-Mounted ThermoJet
[H2000E-D-TR-01]



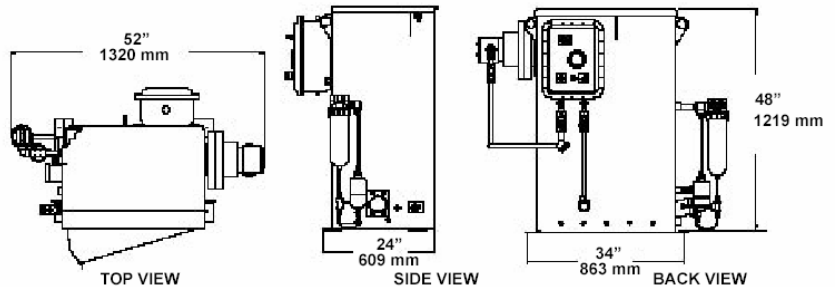
PRINCIPLE OF OPERATION

THERMOJET® Flow Diagram



How The THERMOJET® Oil Purifier Functions

Oil is drawn from a reservoir by a pump through a sight flow indicator and a Y-strainer. A filter removes small quantities of dirt, wear particles and corrosion products. The oil temperature is elevated by a heater. Downstream of the heater, atmospheric air is filtered as it is drawn into the wet oil by a highly efficient, proprietary Jet Mixer. As the air contacts and mixes with the oil, the liquid water changes into a vapor. A supply of compressed air is not required. Dehydrated oil collects in a level-controlled separation tank. In the space above the oil level, the water vapor separates from the oil. The unique design of the THERMOJET® separation tank prevents any condensate from recontaminating the oil. Clean, dry oil is drawn from the tank by a second gear pump which delivers it back to the machinery reservoir or oil tank. The clean water vapor which passes through an oil mist coalescer exhausts to atmosphere. The water condensate passes from a liquid trap into a Condensate Purifier Assembly which removes 100% of the coalesced oil before it is discharged into a clean sewer.



PROACTIVE LUBRICATION MANAGEMENT

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