

Air-Cooled Heat Exchanger Lubrication Solutions

**Innovative Products and Systems to Increase Reliability
and Reduce Maintenance Costs**

ACHE Lubrication Systems

The T.F. Hudgins Air Cooler Lube System provides automated lubrication of fan shaft bearings using a centralized, divider block mechanism. The system delivers a precise volume of grease to maintain a full bearing, without the threat of over-lubrication. By automatically lubricating all bearings, the system eliminates the dangerous and time-consuming task of climbing the tower to access each lube point by hand.

The system consists of divider blocks, a pump, controller and monitor. A single Air Cooler Lube System may be engineered to lubricate an entire bank of air-cooled heat exchangers.

The Air Cooler Lube System features alarm notification if any bearing does not receive the proper amount of lubrication. Alarms may also be configured to indicate high-pressure blockage in the system or low grease level in the reservoir. For any alarm condition, the system provides a convenient "road map" to locate the exact lube point with the error condition.

The control panel can be mounted close to the lube points or in a control room. For improved safety and convenience, the system reservoir can be filled with a remote-fill pump/barrel of grease.



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Advantages

- Eliminates the need to shut down machinery for lubrication
- Assures accurate volume of lubrication
- Provides warning for non-lube conditions
- Saves time
- Improves personnel safety
- Increases machinery reliability
- Extends service life of equipment



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Cooling Tower Lubrication Solutions

Oil Mist Systems for Cooling Tower Gearboxes

T.F.Hudgins oil mist systems provide protection to metal components in cooling tower gearboxes, reducing maintenance costs and extending machinery run times.

Oil mist systems operate by atomizing lubricating oil into small particles, which are conveyed by a low-pressure distribution system to the cooling tower gearbox. By providing a continuous flow of pressurized oil mist into the gearbox, the system prevents contamination and moisture from entering. This preserves the purity and effectiveness of the lubricant and allows extended oil change intervals.

The oil mist system also protects gearbox components when the cooling tower is not in operation. The system continues to run during downtime, coating internal surfaces with an oil film that eliminates corrosion and excessive wear on gears and bearings.

A T.F.Hudgins centralized oil mist system consists of an oil mist generator, pipe system for mist transfer and reclassifiers that control the mist flow to application points. By providing thin-film lubrication, oil mist systems use up to 40% less lubricant than conventional liquid/sump lubrication. Systems are engineered to deliver trouble-free operation and ease of maintenance. Quality construction and robust components assure consistently precise operation and long service life.



Advantages

- Prevents contaminant entry
- Extends oil change intervals
- Protects components when unit is down
- Improves machinery reliability
- Reduces maintenance expenses



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