

MISTLOCK™ BEARING

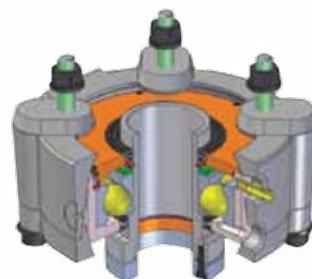
BREAKTHROUGH OIL MIST LUBRICATION SOLUTIONS FOR AIR-COOLED HEAT EXCHANGER (ACHE) BEARINGS AND MOTORS.

Colfax Fluid Handling's Reliability Services, MistLock™ Bearing is a breakthrough in oil mist lubrication technology, an ideal solution for Air-Cooled Heat Exchanger (ACHE) applications. MistLock brings all of the benefits of oil mist to ACHE bearings and motors while eliminating 100% of stray mist that could result in fouling of heat transfer characteristics.

Prior to MistLock, the standard lubrication method for ACHE bearings and motors was grease. But the majority of the fans utilizing bearings operate at high temperatures, often leading to lubricant breakdown and bearing failure. And because the fans are typically located in isolated locations, maintenance was often delayed or overlooked.

The MistLock cartridge overcomes these issues by providing a single, automated lubrication method that provides a clean, cool, continuous oil mist that evenly coats bearing surfaces. The patent-pending MistLock Bearing provides a completely sealed, closed-loop environment for the oil mist. It is also designed to accommodate up to 20 degrees of axial and parallel misalignment of the shaft, eliminating the need for shims. The bearing assembly also eliminates failures attributable to the extreme forces exerted on the bearings due to axial thermal expansion of the shaft. Additionally, the positive pressure provided by oil mist in the bearing housing prevents entry of external contaminants that often lead to bearing failure.

During performance testing and MistLock Bearing field trials in refineries and chemical processing plants, oil-misted bearings have delivered a mean time between repair (MTBR) far exceeding that of a greased bearing.



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