

HILCO® Vent Mist Elimination System Meets RICE NESHAP Requirements



Solution: The HILCO Vent Mist Eliminator removes visible oil vapor in the air stream of vents from lubricating oil systems of large high-speed rotating equipment, generators, pumps, compressors, and other common plant equipment. The mist eliminator prevents oil mist from contaminating air or soil, helping facilities comply with environmental regulations such as the RICE NESHAP (National Emissions Standards for Hazardous Air Pollutants).

Operation: Oil mist generated by the reciprocating equipment is drawn from the breather by the blower. The mist is then pulled through the coalescing cartridges where it is trapped and gathered into droplets which fall to the bottom of the housing. The air, less the captured oil, proceeds through the blower and exhaust silencer, and exits the unit. The Hilco Vent Mist Eliminator System operates with an efficiency of 99.97% or greater of airborne contaminants, regardless of particle size. Now you cannot only deliver oil-free air to the environment, but reduce oil make-up costs as well.

Standard Series:

Blower-Assisted Mist Eliminator: This model is designed for oil systems that cannot withstand back pressure or where back pressure may not be desirable. It can be installed with an airflow-restriction device (butterfly valve) to pull vacuum. It is also designed to maintain atmospheric condition in the oil system.

Mist Eliminator with Heat Exchanger: This model is often used where the oil can reach excessively high temperatures (200 degrees and above). By cooling the air stream, the oil mist becomes easier to coalesce and therefore more efficient.

Coalescer-Only Mist Eliminator: This model is appropriate for use where back pressure on an oil system is not a concern. It can be sized large enough to meet pressure-drop requirements. It also can be used where an existing blower is present to assist flow.

Many standard series in stock & ready to ship.

- **80 CFM** maximum flow capacity
- 2" inlet/outlet connections
- Carbon steel construction
- Meets all electrical requirements -- 50/60 Hz
- Paint as specified
- Mountable inside/outside enclosure
- Utilizes HILCO Demister Element: *DM639-00-C*

HILCO® is a registered trademark of The Hilliard Corporation.

The HILCO Vent Mist Elimination System is a direct replacement for existing non-specified mist elimination systems.

The HILCO Vent Mist Elimination Systems (VME) operate with an efficiency of 99.97% or greater removal of airborne contaminants, regardless of particle size. The HILCO VME effectively remove contaminant and particulate to .3 micron (µm) and below. This efficiency allows for a clean oil return and ultimately a cleaner lube oil system.



- **38 CFM** maximum flow capacity
- 2" inlet/1.5" outlet connections
- Carbon steel construction
- Meets all electrical requirements -- 50/60 Hz
- Paint as specified
- Mountable inside/outside enclosure
- Utilizes HILCO Demister Element: *DM620-00-C*

HILCO Vent Mist Elimination System

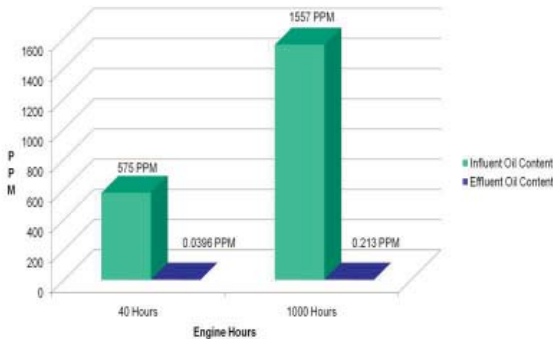
Features and Benefits

- Required where no back pressure is allowed
- Self-regulating bypass will maintain atmospheric conditions in crankcase at all times, regardless of changing blow-by conditions
- Required where a vacuum or zero pressure in crankcase is desired
- Can be used as a vapor extractor and mist eliminator, all in one
- Explosion-proof and UL/CSA approved
- Guaranteed no visible plume and < 3 ppm oil carryover
- 99.97% removal of all airborne contaminants, regardless of particle size or shape
- Can be used in tandem applications
- Both 50 Hz/60 Hz dual rated motors

Typical Performance Data achieved using a HILCO Vent Mist Elimination System

99.97% efficiency regardless of particle size or shape

Performance Data



Typical Installation Wall Mount or Roof Mount Compact Design for small space requirements



The Hilliard Corporation reserves the right to change specifications and dimensions at any time. Please contact the factory for the most current information.

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