



MIS-1500

MIS Series Features

- Low pressure differential P 0.5 - 1.0 psi @ rated capacity under typical conditions.
- Long service life.
- Pressure vessel ASME U Stamped National Board Registered.
- CRN available upon request.
- Low pressure drop, maximum filter area and dirt capacity.
- Hinged flange and lift lug standard on closure flanges.
- Service access without breaking connections.
- Rugged enameled steel.
- Connections sizes from 2 to 10-inch ANSI flange.
- Standard differential pressure gauge on all models.
- Optional zero-loss auto drain.
- White enamel interior coating.

MIS Series Elements

- High efficiency pleated construction.
- High efficiency needled polyester outer layer particulate removal.
- Two stage borosilicate glass coalescing media.
- Unique threaded element "design" (patent pending) requires no internal loose parts and no internal housing center core.
- The filter element will collect particles greater than 1 micron with 99.5% efficiency. Particles 0.5 micron in size will be filtered at an efficiency of 99.3%.
- Special HE (958 media) element available for 0.1 micron particles filtered at an efficiency of 99.99%.

The **Aircel MIS Mist Eliminator (300 - 8000 scfm)** provides a full line of mist eliminators to effectively remove oil, solids and water from your compressed air system. In addition, this technology can serve as an efficient prefilter and contaminant separator for refrigerated and desiccant compressed air dryers. By reducing the liquid loading potential and preventing liquid slugs from reaching the dryer, it will extend the life of your refrigerated dryer's heat exchanger or the life of desiccant in regenerative dryers.

The Aircel MIS Mist Eliminator features an element with patent pending urethane threaded end. This unique design requires no internal loose parts and no internal housing center core. This provides easy, hassle-free element changeout and reduces the overall initial unit shipping weight, saving on freight costs. The element is designed with optimum pleat spacing and fin depth to provide unsurpassed low differential pressure, dirt holding capacity, and efficiency. Filtration efficiency and permeability are based on independent laboratory testing by Interbasic Resources, Inc.

Sustainable Energy Savings

Pressure Drop Reduces Compressor HP 4% per 8 PSI Drop

For every 8 psi pressure drop, compressor horsepower efficiency will be reduced by 4%. Therefore, the annual energy cost to run a typical 100 hp compressor with 85% efficiency compressor/motor can be figured as follows:

- Conventional Filter: \$0.07/KW-hr x 8760 hours x 103.3 KW x 4% = \$2533.74
- Mist Eliminator: \$0.07/KW-hr x 8760 hours x 103.3 KW x 0.5% = \$316.72
(1 psi pressure drop = 0.5% compressor HP reduced)

That's a savings of \$2217.02 per year.

MIS SERIES Recommended Installation

Locating a mist eliminator downstream from the compressor effectively lengthens the maintenance cycle on all elements, significantly reducing costs of system maintenance.

