

Mist Eliminators

M SERIES

THE AUDITORS CHOICE!

Reduce energy costs while removing oil and water aerosols from compressed air systems.

Hankison's M Series Mist Eliminators:

- Protect products and processes from contamination
- Increase the life of pneumatic equipment
- Helps retain a smooth paint appearance and eliminates adhesion problems
- Keep pneumatic instruments operating

LOW OPERATING COSTS

- Low pressure drop: 0.5 to 1 psi (0.03 to 0.07 bar)
 - Typical coalescing filters operate at 3 to 6 psi (0.21 to 0.41 bar) requiring the air compressor to operate at higher operating pressures, increasing power requirements by 2.5% or more
- Long element life: 8 to 15 years
- With a large in-depth bed, element life is much longer than conventional oil removal filters
- Virtually maintenance free

EXTRA PROTECTION

- Captures and retains large slugs of oil and water, should drain trap fail
- Protects downstream equipment from contamination should oil separator on rotary screw compressor fail

STANDARD FEATURES

- 5 year equipment warranty
- 5 year element life guarantee
- Differential pressure gauge mounted and piped
- Heavy duty ASME stamped pressure vessel
- Long life mist eliminator element
- Floor stand
- Dedicated vent port for demand type drains



SUPERIOR INSTALLATION FLEXIBILITY

- Twelve (12) inlet positions to better adapt to your piping arrangement
- Inlet piping clears vessel diameter to prevent element removal complications
- Flanged inlet connection ensures easy access to element
- Dedicated vent connection port for clean, easy demand drain trap installations

REMOVES SUBMICRONIC PARTICLES FOR ULTRA CLEAN AIR

- 100% of particles 3 microns and larger
- 99.98% of particles 0.1 micron and larger
- 0.5 ppm w/w maximum liquid content after filtration
- 1000 ppm maximum inlet liquid loading

OPTIONAL FEATURES

- Automatic condensate drains:
 - Pneumatically operated demand drains
 - Electrically operated timer drains
- Differential pressure gauge with reed switch

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PRODUCT FEATURES AND SPECIFICATIONS

Advanced filter bed technology

Compressed air enters the rotatable flanged inlet assembly engineered for easy element access. Designed for optimum velocity, the air is directed through a loosely packed bed of highly engineered, water resistant glass fibers. Water droplets, oil aerosols and solid particles entrained in the air stream are captured by the fibers through the mechanics of direct interception, inertial impaction, and diffusion that result from the forces of Brownian motion. The captured liquids and aerosols move along the fibers and coalesce into larger droplets. Gravity draws the coalesced liquids to the bottom of the filter element where they drop into a quiet zone in the bottom of the vessel for removal.

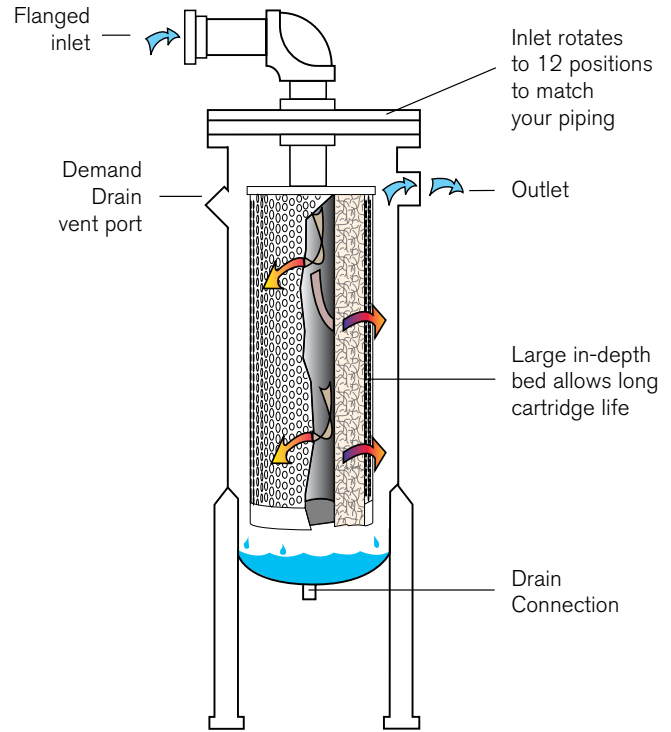
Superior Drainage

Condensate drainage can be accomplished automatically by installing an optional drain valve. Timer operated drains or energy efficient demand style drain valves (optional) can be adapted to the drain connection. Demand style drain valves benefit from the demand drain vent connection port (see illustration) engineered into these vessels. This exclusive feature equalizes drain-to-vent pressures and simplifies vent piping installations. Equalized pressure ensures consistent drainage and prevents "air-lock" induced drain valve failures common in other designs.

SIZING

| Min. Inlet Pressure | psig | 20 | 30 | 40 | 60 | 80 | 100 | 120 | 150 |
|---------------------|------------|------|------|------|------|------|------|------|------|
| | bar | 1.4 | 2.1 | 2.8 | 4.2 | 5.6 | 7.0 | 8.4 | 10.5 |
| | Multiplier | 0.30 | 0.39 | 0.48 | 0.65 | 0.82 | 1.00 | 1.17 | 1.43 |

Maximum air flow at 100 psig (7 bar) is indicated in the Specifications table. To determine maximum air flow at pressures other than 100 psig (7 bar) multiply flow @ 100 psig (7 bar) by multiplier from the table below that corresponds to the minimum operating pressure at the inlet of the filter.



M SERIES PRODUCT SPECIFICATIONS

| Model Number | Flow @ 100 psig (7 bar) | | Replacement Cartridge | Dimensions | | | | Connections ^a | | Weight | |
|--------------|-------------------------|--------------------|-----------------------|------------|-------|-------|------|--------------------------|------------|--------|------|
| | scfm | nm ³ /h | | Height | | Width | | Inlet | Outlet | lbs | (kg) |
| | | | | in. | (mm) | in. | (mm) | | | | |
| MM1 | 125 | 212 | MM1F | 40 | 1,016 | 17 | 431 | 2" FLG | 2" NPT | 194 | 88 |
| MM2 | 250 | 425 | MM2F | 40 | 1,016 | 17 | 431 | 2" FLG | 2" NPT | 200 | 91 |
| MM3 | 500 | 850 | MM3F | 52 | 1,320 | 18 | 457 | 2 1/2" FLG | 2 1/2" NPT | 231 | 105 |
| MM4 | 1000 | 1,699 | MM4F | 77 | 1,955 | 26 | 660 | 4" FLG | 4" FLG | 368 | 167 |
| MM5 | 1500 | 2,549 | MM5F | 85 | 2,159 | 27 | 686 | 4" FLG | 4" FLG | 410 | 186 |
| MM6 | 2100 | 3,568 | MM6F | 94 | 2,388 | 33 | 838 | 4" FLG | 4" FLG | 735 | 333 |
| MM7 | 2400 | 4,078 | MM7F | 94 | 2,388 | 33 | 838 | 4" FLG | 4" FLG | 751 | 341 |
| MM8 | 3000 | 5,097 | MM8F | 94 | 2,388 | 33 | 838 | 4" FLG | 4" FLG | 767 | 348 |

Maximum working pressure: 150 psig (10.5 bar), Maximum operating temperature: 150°F (66°C)

^a Consult factory for BSP or DN flanges



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