

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

- 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 flanged inlet assembly engineered for easy element access. Designed for optimum velocity, the air is directed through 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.

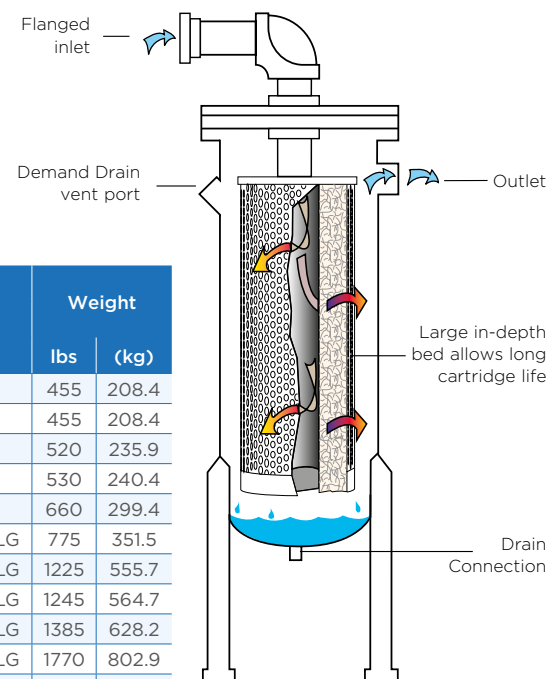
To determine maximum air flow at pressures other than 100 psig (7 bar) multiply flow @ 100 psig (7 bar) by multiplier from the table below that corresponds to the minimum operating pressure at the inlet of the filter.

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	212.4	M125-1	42 1/4"	1073.2	21"	533.4	2" NPT	2" NPT	455	208.4
MM2	250	424.8	M250-1	42 1/4"	1073.2	21"	533.4	2" NPT	2" NPT	455	208.4
MM3	500	849.5	M500-1	68 1/4"	1733.6	21"	533.4	3" NPT	3" NPT	520	235.9
MM4	800	1359.2	M800-1	68 1/4"	1733.6	21"	533.4	3" NPT	3" NPT	530	240.4
MM5	1100	1868.9	M1100-1	72 5/16"	1836.7	23 1/2"	596.9	3" NPT	3" NPT	660	299.4
MM6	1500	2548.3	M1500-1	72 7/16"	1836.7	25"	635	4" R.F. FLG	4" R.F. FLG	775	351.5
MM7	1900	3228.1	M1900-1	75 3/4"	1924.1	32"	812.8	4" R.F. FLG	4" R.F. FLG	1225	555.7
MM8	2400	4077.6	M2400-1	75 3/4"	1924.1	32"	812.8	4" R.F. FLG	4" R.F. FLG	1245	564.7
MM9	3000	5097.1	M3000-1	88 3/4"	2254.3	32"	812.8	4" R.F. FLG	4" R.F. FLG	1385	628.2
MM10	4500	7645.6	M4500-1	153"	3886.2	32"	812.8	6" R.F. FLG	6" R.F. FLG	1770	802.9
MM11	6000	10194.1	M6000-1	CF	CF	CF	CF	CF	CF	CF	CF
MM12	8000	13592.1	M8000-1	CF	CF	CF	CF	CF	CF	CF	CF

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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Design features, materials of construction and dimensional data, as described in this bulletin, are provided for your information only and should not be relied upon unless confirmed in writing. Please contact your local sales representative for product availability in your region.



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