

Mist Eliminators ME Filters

150 to 12,000 scfm



- Energy Saving
- Long Service Life (10-15 Years Before Element Change)
- 5 Year Performance Guarantee

Sullair's Mist Eliminators

The time-tested range of Sullair Mist Eliminators combine extensive research and development with decades of experience in compressed air treatment.

Sullair now offers the ideal solution to ever increasing demands from industry for clean, high quality compressed air, efficient removal of oil-mist carryover from piston or oil flooded rotary compressors.

Compressed air processing equipment must have a very low pressure drop, long service life, and be strong enough to withstand the most harsh operating conditions. Protection from slugs of oil or compressor air/oil separator failure is essential.

The range of Mist Eliminators is specifically designed to meet these demands and will optimize oil removal while ensuring extremely low pressure drop and long service life.

Element

- Ultra low 0.5 psid.
- High load factor compared to conventional hand packed media which is prone to inconsistent performance under varying load conditions.
 - Provides 9–10 times greater filtration surface area, greater dirt holding capability, and lower pressure drop.
 - Eliminates migration of airflow to area of least resistance, also known as “channeling”.
 - Eliminates the shedding of media.
 - Consistent quality.

- Strong stainless steel support sleeve construction.
 - Eliminates rust and corrosion which can contaminate the air system.
 - Integral support of the filtration media to eliminate bypass of contaminants.
- For the removal of particles down to 1 micron including coalesced liquid water and oil providing a maximum remaining oil aerosol content of 0.5 ppm.

Special machine pleated element construction

The machined pleating of the filter media increases its stability under changing loads and reduces the specific surface tension.

Low pressure drop and running costs

The Sullair Mist Eliminator's pressure drop is one of the lowest available at 0.5 psi which is typically 4 psi lower than conventional filters. This provides significant energy savings as on average every 2 psi pressure drop in the system equals a 1% loss in compressor horsepower.

Therefore annual energy savings would be:

4 psi = 2% Savings in lost compressor power

Annual energy savings on 100 hp system

$\$0.05/\text{kWh} \times 8760 \text{ hours} \times 74.6 \text{ kW} \times 2\% = \$ 653$

$\$0.08/\text{kWh} \times 8760 \text{ hours} \times 74.6 \text{ kW} \times 2\% = \1046

$\$0.10/\text{kWh} \times 8760 \text{ hours} \times 74.6 \text{ kW} \times 2\% = \1307

5 year
PERFORMANCE
GUARANTEE

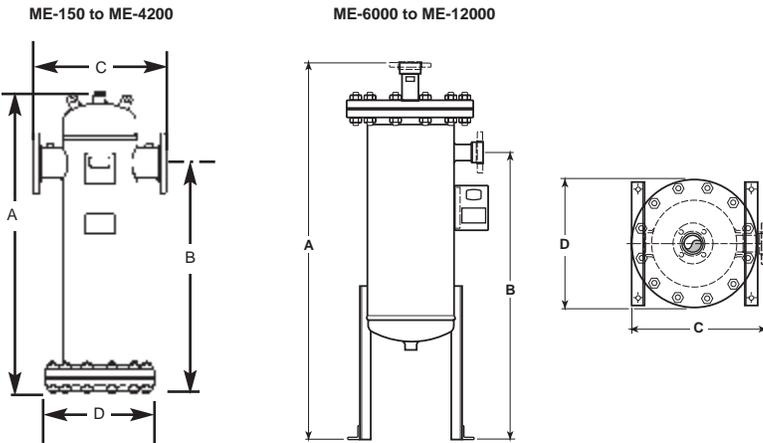
5 Year Performance Guarantee that the differential pressure will not exceed 1 psid

Specifications

Type	Capacity @ 100 psig	Dimensions				In/Out Connections	Drain Port	Weight Lbs.
		"A"	"B"	"C"	"D"			
ME-150	150	17-3/4"	26"	8-3/4"	10"	2" FLG	1/2"	184
ME-300	300	17-3/4"	33"	8-3/4"	16"	2" FLG	1/2"	210
ME-600	600	17-3/4"	48"	8-3/4"	27"	2" FLG	1/2"	280
ME-800	800	19-3/4"	40"	8-3/4"	20"	3" FLG	1/2"	342
ME-1200	1200	19-3/4"	50"	10-1/4"	27"	3" FLG	1/2"	392
ME-1600	1600	19-3/4"	50"	10-1/4"	27"	3" FLG	1/2"	397
ME-2100	2100	24"	56"	12-5/8"	25"	4" FLG	1/2"	544
ME-2750	2750	24"	56"	12-5/8"	25"	4" FLG	1/2"	545
ME-4200	4200	31-1/8"	55-3/8"	10-5/8"	26"	6" FLG	1/2"	723
ME-6000	6000	83-1/2"	68"	30-1/2"	27-1/2"	6" FLG	1	C/F
ME-8000	8000	84-12"	66"	34-3/4"	32"	8" FLG	1	C/F
ME-10000	10000	88"	68"	34-3/4"	32"	10" FLG	1	C/F
ME-12000	12000	109-1/4"	88-1/2"	34-3/4"	32"	12" FLG	1	C/F

For higher capacities, consult factory.

Sullair is committed to a program of continuous improvement. Features and specifications may change without notice. Consult your Sullair representative or authorized Sullair distributor.



Housing

- ASME approved
- CRN approved
- Incremental differential pressure gauge standard
- Condensate drain options

Maximum operating pressure:	260 psig
Maximum operating temperature:	200°F
Minimum operating temperature:	35°F
Initial clean pressure drop:	.05 psig

Line Pressure psig	20	30	40	60	80	100	120	150
Correction Factor	0.45	0.55	0.63	0.77	0.89	1.0	1.1	1.22

For flow rates at other pressures, apply the factor shown to the above flow rates.

Sullair Air Quality Guarantee

Two Levels of Air Quality

Sullair recognizes that the requirements for air quality vary according to each compressed air application. For this reason, Sullair provides compressed air Systems that achieve two distinct levels of air quality and a guarantee for each.

The Sullair System.

The Sullair System matches a Sullair compressor, a Sullair dryer and Sullair filters. Sullair assures that its System will meet specific performance levels throughout its operational life. We offer a one-year test/review period, backed by a purchase refund guarantee, to verify the performance of the Sullair System.

Select the System.

Select the air quality level to meet your plant air or process requirements. You can be assured that the quality of air from the Sullair System you specify will remain consistent for the life of the equipment. Sullair guarantees it... and that's as good as gold.

The Sullair Oil-Free Air Quality Guarantee.

The System consists of a Sullair compressor, Sullair dryer, and Sullair SCF and SCH or PF/PH filters. The compressed air from this system contains particulates no larger than .01 micron, including coalesced liquid water and lubricants.



Maximum remaining oil aerosol content is 0.01 parts per million by weight (ppm/w) @ 70°F, including oil vapor. The air from this Sullair System meets the most stringent ISO standard (ISO 8573.1, Class 1) for air quality.

The Sullair Critical Air Quality Guarantee.

The compressed air from this Sullair System exceeds the ISO standard (ISO 8573.1, Class 1) for air quality with the use of the SCC or PC filter. The System includes a Sullair compressor, Sullair dryer, and Sullair SCF, SCH, and SCC; or PF, PH, and PC filters. The odor-free compressed air from this system contains particulates no larger than 0.01 micron, including water and oil aerosol content of 0.01 parts per million by weight (ppm/w) @ 70°F. The remaining oil vapor content is less than 0.003 ppm/w.

These Systems are not intended to remove carbon monoxide, methyl isocyanate or other noxious, corrosive or toxic gases, vapors or fumes. The system does not provide breathing air.

The AirMetrix by SULLAIR logo is at the top left of the box. Below it is a quote: "Sullair offers AirMetrix™ solutions that help reduce energy costs and improve productivity by analyzing, managing, and controlling the total compressed air system." Below the quote is a circular diagram divided into six segments: DOWNSTREAM PRODUCTS, AIR AUDITS, CUSTOMER CARE™ BY SULLAIR®, AIRILITY™, SYSTEM MONITORING, and CORE PRODUCTS. The SYSTEM CONTROLS segment is also present but partially obscured by the other segments.

AirMetrix
by SULLAIR

Sullair offers AirMetrix™ solutions that help reduce energy costs and improve productivity by analyzing, managing, and controlling the total compressed air system.

DOWNSTREAM PRODUCTS
AIR AUDITS
CUSTOMER CARE™ BY SULLAIR®
AIRILITY™
SYSTEM MONITORING
CORE PRODUCTS
SYSTEM CONTROLS

For more information on Sullair products and services, please contact your local Sullair distributor.



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