

# Mist Eliminators



Parker Airtek's range of Mist Eliminators is the result of extensive research and development, and many years of experience in the design and manufacture of high efficiency compressed air treatment products.

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

Parker Airtek's 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.

The Parker Airtek Mist Eliminator's pressure drop is one of the lowest available at 0.5 psi which is typically 8 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.



## Features:

- Internally epoxy painted (corrosion inhibitor package) - (optional)
- Optimum protection against catastrophic air/oil separator failure by containing large slugs of oil and condensate, up to 50% of compressor sump capacity, without re-entrainment
- Incremental differential pressure gauge supplied for field installation - (standard)
- Condensate drain options
- Built per ASME Code with CRN registration (U or UM Stamp accordingly)

## Benefits:

- Lifetime and Performance Guarantee - 5 year performance guarantee that the differential pressure will not exceed 1 psi d
- Long service life up to 10 years
- Ultra low 0.5 psi d
- Special machine pleated element construction
- Provides 9-10 times greater filtration surface area
- Eliminates migration of airflow to area of least resistance, also known as "preferential flow"
- Strong stainless steel support sleeve construction
- Eliminates rust and corrosion which can contaminate the system
- Integral support of the filter media to eliminate bypass of contaminants
- Tie-rod construction for complete mechanical protection against compressor air/oil separator failure

## Special Machine Pleated Element Construction

The machine pleating of the filter media increases its stability under changing loads and reduces the specific surface tension. This design results in a high load factor when compared to traditional hand packed media which is prone to inconsistent

Performance under varying load conditions. Also known as “preferential flow,” the airflow through media which is not consistently packed, can migrate to areas of least resistance over time as the element begins retaining dirt particles, allowing the filtration

Efficiency to be reduced. Utilizing a machine pleating process increases the flow and dirt holding capacity across the full area of the media, resulting in lower differential pressure and better energy savings from your compressed air system.

## Technical Specifications

<b>Maximum Operating Temperature</b>	200°F (93°C)
<b>Maximum Operating Pressure</b>	150 psi g (10 bar g) (For 250 psi g (17 bar g) consult factory)
<b>Initial Differential Pressure</b>	0.5 psi d (34.48 mbar)
<b>Recommended Pressure Differential for Element Change</b>	1.0 psi d (68.97 mbar)

High Efficiency General Purpose Protection: 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.

Model	scfm	Pipe Size	Drain Connection	A		B		Weight (Approx.)		Replacement Element
				in	mm	in	mm	lb	kg	
<b>PME125</b>	125	2" NPT	1" NPT	20	517	43	1095	292	132	K125PME
<b>PME250</b>	250	2" NPT	1" NPT	20	517	49	1235	310	141	K250PME
<b>PME500</b>	500	2" NPT	1" NPT	17	438	63	1600	352	160	K500PME
<b>PME1000</b>	1000	3" FLG	1" NPT	20	520	77	1949	402	182	K1000PME
<b>PME1200</b>	1200	3" FLG	1" NPT	26	654	71	1806	528	239	K1200PME
<b>PME1500</b>	1500	4" FLG	1" NPT	26	654	83	2105	563	255	K1500PME
<b>PME2000</b>	2000	4" FLG	1" NPT	29	730	79	1997	745	338	K2000PME
<b>PME3000</b>	3000	4" FLG	1" NPT	29	730	88	2225	789	358	K3000PME
<b>PME4500</b>	4500	6" FLG	1" NPT	30	775	85	2162	894	405	K4500PME
<b>PME6000</b>	6000	6" FLG	1" NPT	30	775	95	2416	949	430	K6000PME
<b>PME8000</b>	8000	8" FLG	1" NPT	35	883	105	2664	1220	553	K8000PME
<b>PME10000</b>	10000	10" FLG	1" NPT	CF	CF	CF	CF	CF	CF	K10000PME
<b>PME12000</b>	12000	12" FLG	1" NPT	CF	CF	CF	CF	CF	CF	K12000PME

\*Flow scfm @ 100 psi g (7 bar g) nominal

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

<b>Line Pressure (psi g)</b>	20	30	40	60	80	100	120	150
<b>Correction Factor</b>	0.45	0.55	0.63	0.77	0.89	1.0	1.1	1.22

