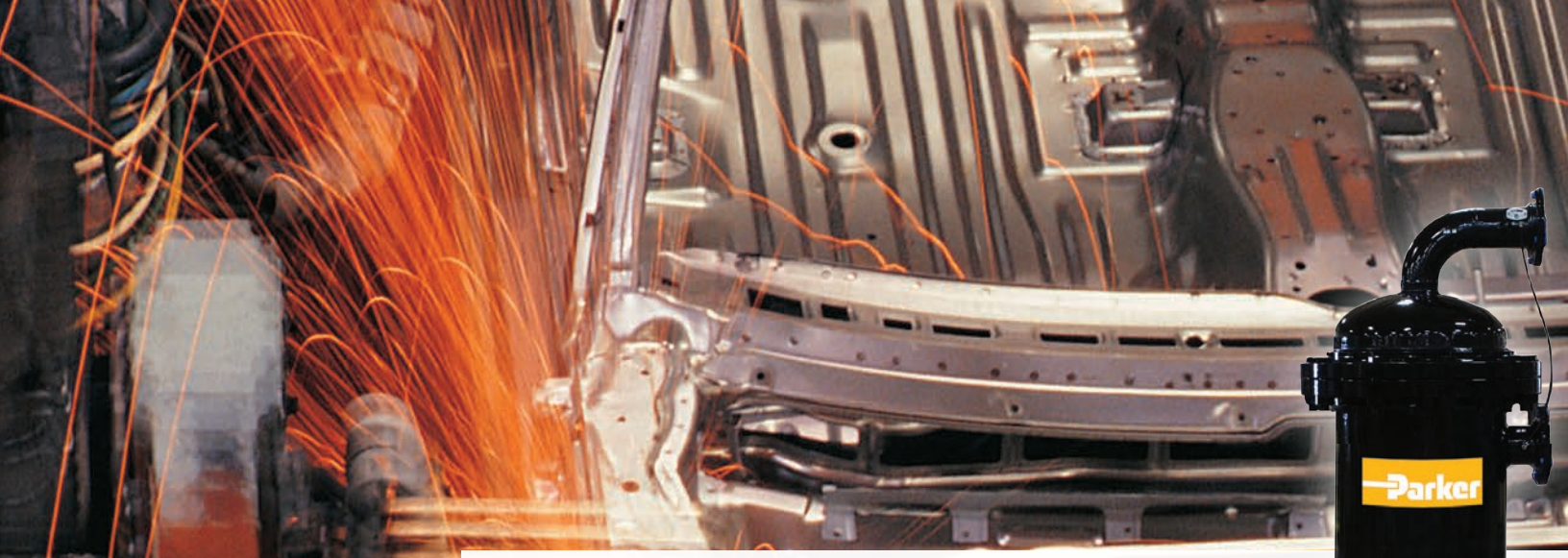
FOCUSED ON **PURIFICATION**

Parker Mist Eliminators | PME Series

Parker

ENGINEERING YOUR SUCCESS.



FOCUSED ON CONTAMINANT REMOVAL

Parker'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'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 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.

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.

PME Mist Eliminators

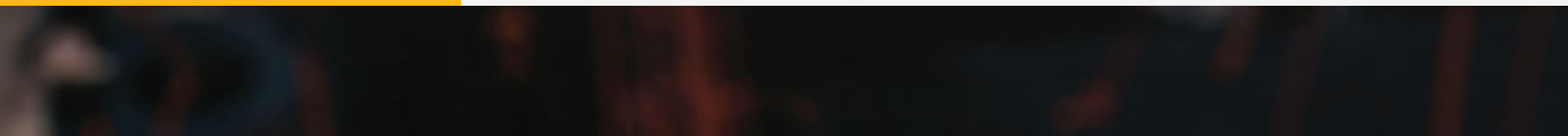
Benefits

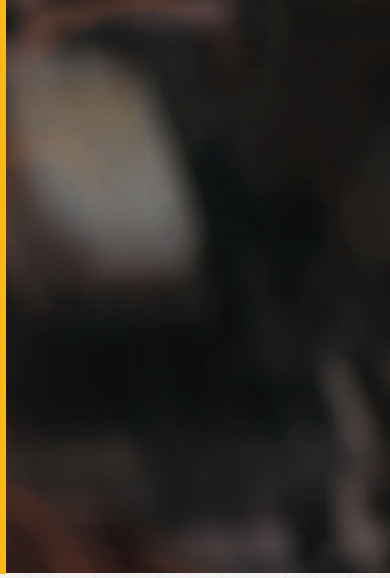
- 5 year element life
- Ultra low 0.5 psi d pressure drop
- Special machine pleated element construction
- Provides nine to ten times greater filtration surface area
- Eliminates migration of airflow to area of least resistance, also known as "preferential flow"
- Strong stainless steel support sleeve 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

Features

- Externally black epoxy painted
- 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
- Factory mounted incremental differential pressure gauge and float drain ships loose (standard)
- Condensate drain options
- Built per ASME Code with CRN registration (U or UM Stamp accordingly)
- Double gasket seal to ensure full element integrity

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.



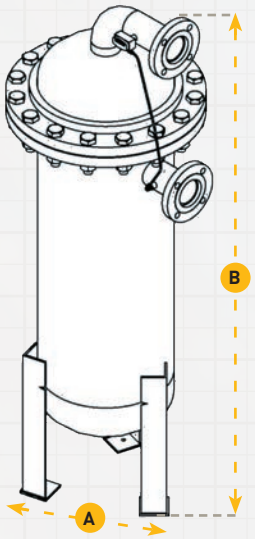


Technical Specifications

Maximum Operating Temperature	200°F
Maximum Operating Pressure	260 psi g
Initial Differential Pressure	0.5 psi d
Recommended Element Change Out	5 years

- High Efficiency General Purpose Protection: 99.997% efficient at removing liquids.

Model	scfm	Pipe Size	Drain Connection	A		B		Weight (Approx.)		Replacement Element
				in	mm	in	mm	lb	kg	
PME125	125	2" NPT	1" NPT	20	517	43	1095	292	132	K125MXL
PME250	250	2" NPT	1" NPT	20	517	49	1235	310	141	K250MXL
PME500	500	2" NPT	1" NPT	17	438	63	1600	352	160	K500MXL
PME1000	1000	3" FLG	1" NPT	20	520	77	1949	402	182	K1000MXL
PME1200	1200	3" FLG	1" NPT	26	654	71	1806	528	239	K1200MXL
PME1500	1500	4" FLG	1" NPT	26	654	83	2105	563	255	K1500MXL
PME2000	2000	4" FLG	1" NPT	29	730	79	1997	745	338	K2000MXL
PME3000	3000	4" FLG	1" NPT	29	730	88	2225	789	358	K3000MXL
PME4500	4500	6" FLG	1" NPT	30	775	85	2162	894	405	K4500MXL
PME6000	6000	6" FLG	1" NPT	30	775	95	2416	949	430	K6000MXL
PME8000	8000	8" FLG	1" NPT	35	883	105	2664	1220	553	K8000MXL
PME10000	10000	10" FLG	1" NPT	CF	CF	CF	CF	CF	CF	K10000MXL
PME12000	12000	12" FLG	1" NPT	CF	CF	CF	CF	CF	CF	K12000MXL



- Flow scfm @ 100 psi g (7 bar g) nominal
- For flow rates at other pressures, apply the factor shown to the above flow rates.

Correction Factors

Line Pressure (psi g)	psi g	15	22	29	37	44	51	58	66	73	80	87	95	100	110	116	124	131
	bar g	1	1.5	2	2.5	3	3.5	4	4.5	5	5.5	6	6.5	7	7.5	8	8.5	9
Correction Factor Pressure (CFP)		2.65	2.16	1.87	1.67	1.53	1.41	1.32	1.25	1.18	1.13	1.08	1.04	1.00	0.97	0.94	0.91	0.88

Line Pressure (psi g)	psi g	139	145	153	160	168	174	183	189	197	203	212	218	226	232	241	248	256	263
	bar g	9.5	10	10.5	11	11.5	12	12.5	13	13.5	14	14.5	15	15.5	16	16.5	17	17.5	18
Correction Factor Pressure (CFP)		0.86	0.84	0.82	0.80	0.78	0.76	0.75	0.73	0.72	0.71	0.69	0.68	0.67	0.66	0.65	0.64	0.63	0.62

To correctly select a filter model, the flow rate of the filter must be adjusted for the minimum operating pressure of the system.

1. Obtain the minimum operating pressure and maximum compressed air flow rate at the inlet of the filter.
2. Select the correction factor for minimum operating pressure from the CFP table (always round down e.g. for 75 psi, use 73 psi correction factor).
3. Calculate the minimum filtration capacity.
   Minimum Filtration Capacity = Compressed Air Flow Rate x CFP
4. Using the minimum filtration capacity, select a water separator model from the flow rate tables above (filter model selected must have a flow rate equal to or greater than the minimum filtration capacity).

PME Mist Elminators CRN registered in all provinces (except Alberta)

Worldwide Filtration Manufacturing Locations

North America

Compressed Air Treatment

Industrial Gas Filtration and Generation Division
Lancaster, NY
716 686 6400
www.parker.com/igfg

Haverhill, MA
978 858 0505
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Engine Filtration

Racor
Modesto, CA
209 521 7860
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Holly Springs, MS
662 252 2656
www.parker.com/racor

Hydraulic Filtration

Hydraulic & Fuel Filtration
Metamora, OH
419 644 4311
www.parker.com/hydraulicfilter

Laval, QC Canada
450 629 9594
www.parkerfarr.com

Velcon
Colorado Springs, CO
719 531 5855
www.velcon.com

Process Filtration

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Oxnard, CA
805 604 3400
www.parker.com/processfiltration

Water Purification

Village Marine, Sea Recovery, Horizon Reverse Osmosis
Carson, CA
310 637 3400
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