FOCUSED ON PURIFICATION
Parker Mist Eliminators | PME Series
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.

**FOCUSED ON CONTAMINANT REMOVAL**

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.

**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**

<table>
<thead>
<tr>
<th>Model</th>
<th>scfm</th>
<th>Pipe Size</th>
<th>Drain Connection</th>
<th>A</th>
<th>B</th>
<th>Weight [Approx.]</th>
<th>Replacement Element</th>
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<tbody>
<tr>
<td>PME125</td>
<td>125</td>
<td>2&quot; NPT</td>
<td>1&quot; NPT</td>
<td>20</td>
<td>517</td>
<td>1095</td>
<td>K125MXL</td>
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<td>520</td>
<td>1949</td>
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<td>1806</td>
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<td>1&quot; NPT</td>
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<td>1&quot; NPT</td>
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<td>1&quot; NPT</td>
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<td>775</td>
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<td>1&quot; NPT</td>
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<td>CF</td>
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<td>CF</td>
<td>CF</td>
<td>K12000MXL</td>
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</table>

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

**Correction Factors**

<table>
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<th>Line Pressure [psi g]</th>
<th>psi g</th>
<th>15</th>
<th>22</th>
<th>29</th>
<th>37</th>
<th>44</th>
<th>51</th>
<th>58</th>
<th>66</th>
<th>73</th>
<th>80</th>
<th>87</th>
<th>95</th>
<th>100</th>
<th>110</th>
<th>116</th>
<th>124</th>
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<td>Correction Factor Pressure (CFP)</td>
<td>2.65</td>
<td>2.16</td>
<td>1.87</td>
<td>1.67</td>
<td>1.53</td>
<td>1.41</td>
<td>1.32</td>
<td>1.25</td>
<td>1.18</td>
<td>1.13</td>
<td>1.08</td>
<td>1.04</td>
<td>1.00</td>
<td>0.97</td>
<td>0.94</td>
<td>0.91</td>
<td>0.88</td>
<td></td>
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</tbody>
</table>

| Line Pressure [psi g] | psi g  | 139 | 145 | 153 | 160 | 168 | 174 | 183 | 189 | 197 | 203 | 212 | 218 | 226 | 232 | 241 | 248 | 256 | 263 |
|-----------------------|--------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
| 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 |

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).

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

parker.com/igfg
# Worldwide Filtration Manufacturing Locations

## North America
### Compressed Air Treatment
- Industrial Gas Filtration and Generation Division
  - Lancaster, NY
  - 716 696 6400
  - [www.parker.com/igfg](http://www.parker.com/igfg)
  - Haverhill, MA
  - 978 858 0505
  - [www.parker.com/igfg](http://www.parker.com/igfg)

### Engine Filtration
- Racor
  - Modesto, CA
  - 209 521 7860
  - [www.parker.com/racor](http://www.parker.com/racor)
  - Holly Springs, MS
  - 662 252 2656
  - [www.parker.com/racor](http://www.parker.com/racor)

### Hydraulic Filtration
- Hydraulic & Fuel Filtration
  - Metamora, OH
  - 419 644 4311
  - [www.parker.com/hydraulicfilter](http://www.parker.com/hydraulicfilter)
  - Laval, QC Canada
  - 450 629 9594
  - [www.parkerfarr.com](http://www.parkerfarr.com)
  - Velcon
    - Colorado Springs, CO
    - 719 531 5855
    - [www.velcon.com](http://www.velcon.com)

### Process Filtration
- domnick hunter Process Filtration
  - Oxnard, CA
  - 805 604 3400
  - [www.parker.com/processfiltration](http://www.parker.com/processfiltration)

### Water Purification
- Village Marine, Sea Recovery, Horizon Reverse Osmosis
  - Carson, CA
  - 310 637 3400
  - [www.parker.com/watermakers](http://www.parker.com/watermakers)

## Europe
### Compressed Air Treatment
- domnick hunter Filtration & Separation
  - Gateshead, England
  - +44 (0) 191 402 9000
  - [www.parker.com/dhfns](http://www.parker.com/dhfns)
- Parker Gas Separations
  - Etten-Leur, Netherlands
  - +31 76 506 5300
  - [www.parker.com/dhfns](http://www.parker.com/dhfns)
- Hiross Airetk
  - Essen, Germany
  - +49 2054 9340
  - [www.parker.com/hzfd](http://www.parker.com/hzfd)
  - Padova, Italy
  - +39 049 9712 111
  - [www.parker.com/hzfd](http://www.parker.com/hzfd)

### Engine Filtration & Water Purification
- Racor
  - Dewisbury, England
  - +44 (0) 1924 487 000
  - [www.parker.com/rfde](http://www.parker.com/rfde)
- Racor Research & Development
  - Stuttgart, Germany
  - +49 (0)711 7071 290-10

### Hydraulic Filtration
- Hydraulic Filter
  - Arnhem, Holland
  - +31 26 3760376
  - [www.parker.com/hfde](http://www.parker.com/hfde)
- Urjala, Finland
  - +358 20 753 2500

### Condition Monitoring
- Parker Kittiwake
  - West Sussex, England
  - +44 (0) 1903 731 470
  - [www.kittiwake.com](http://www.kittiwake.com)

### Process Filtration
- domnick hunter Process Filtration
  - Birtley, England
  - +44 (0) 191 410 5121
  - [www.parker.com/processfiltration](http://www.parker.com/processfiltration)

## Asia Pacific
### Australia
- Castle Hill, Australia
  - +61 2 9634 7777
  - [www.parker.com/australia](http://www.parker.com/australia)

### China
- Shanghai, China
  - +86 21 5031 2525
  - [www.parker.com/china](http://www.parker.com/china)

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- Chennai, India
  - +91 22 4391 0700
  - [www.parker.com/india](http://www.parker.com/india)

### Japan
- Tokyo, Japan
  - +81 45 870 1522
  - [www.parker.com/japan](http://www.parker.com/japan)

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- Hwaseong-City
  - +82 31 359 0852
  - [www.parker.com/korea](http://www.parker.com/korea)

### Singapore
- Jurong Town, Singapore
  - +65 6897 8300
  - [www.parker.com/singapore](http://www.parker.com/singapore)

### Thailand
- Bangkok, Thailand
  - +66 2186 7000
  - [www.parker.com/thailand](http://www.parker.com/thailand)

### Latin America
- Parker Comercio Ltda.
  - Filtration Division
  - Sao Paulo, Brazil
  - +55 12 4009 3500
  - [www.parker.com/vbr](http://www.parker.com/vbr)

### Pan American Division
- Miami, FL
  - 305 470 8800
  - [www.parker.com/panam](http://www.parker.com/panam)

### Africa
- Aeroport Kempton Park, South Africa
  - +27 11 9610700
  - [www.parker.com/africa](http://www.parker.com/africa)