High Efficiency Water Separators

Series WA
The Problem

Bulk water which exists in all compressed air systems causes problems - corrosion of piping, permanent damage to valves, cylinders, pneumatic tools, machinery and reducing the effectiveness of aftercoolers/heat exchangers.

The Simple Solution

Over 99% of bulk water can be easily and economically removed by installing a Zander Type WA High Efficiency Water Separator. Now, your compressed air system will operate much more efficiently with reduced downtime and maintenance costs. This new, patented technology will also improve the effectiveness of aftercoolers, refrigerant dryers, filters and other downstream equipment.

Benefits:
- 99% efficient
- Cost effective
- Low maintenance
- Proven patented design
- High flow rates
- Very low differential pressure
- Automatic drainage
- Removes rust and pipe scale
- Lifetime guarantee
- High-efficiency at reduced flows

Options:
- Available with automatic or manual drain
- External electronic drain valves
- 740 psi g versions
- 4000 psi g versions
- Stainless steel range
- Fabricated steel range

Corrosion protected inside and out with Alocrom treatment then a tough epoxy paint finish is baked on to give extra long life. Note the convincing results of a 150 hour salt spray test.
High Efficiency Separation
A team of specialists having many years experience can advise you about water separation problems. The technologies developed by our research department guarantee the best technical and commercial solutions.

Compressors and Aftercoolers
In compressors, condensation occurs between compression stages, and unless effectively removed, causes inefficiency and potential damage. At the aftercooler stage, water will also condense and reduce its ability to achieve maximum air density and minimized power loss. Zander Type WA High Efficiency Water Separators positioned at the point of discharge will remove condensed water and improve overall efficiency and reliability.

Refrigeration Dryers
The difficulty with refrigerant based dryers is that water will always condense after the lowest temperature in the heat exchanger. No matter how efficient the heat exchanger can be made, if this condensed water is not removed from the compressed air stream, it will re-evaporate and significantly reduce the dewpoint efficiency.

By installing a Zander Type WA High Efficiency Water Separator at the lowest temperature in the heat exchanger, the best possible outlet pressure dewpoint will be achieved. Typically 2°F above the lowest temperature. (e.g. lowest temperature 36°F then outlet pressure dewpoint 38°F.)
Series WA Water Separators

Technical Data - WA Water Separators

Maximum operating pressure: 232 psi g
Maximum recommended operating temperature: 150°F
Minimum recommended operating temperature: 35°F
Typical pressure differential at rated flow: 0.3 psi

<table>
<thead>
<tr>
<th>Line Pressure (psig)</th>
<th>15</th>
<th>44</th>
<th>73</th>
<th>100</th>
<th>131</th>
<th>160</th>
<th>189</th>
<th>218</th>
<th>232</th>
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<tbody>
<tr>
<td>Correction Factor</td>
<td>0.5</td>
<td>0.71</td>
<td>0.87</td>
<td>1.0</td>
<td>1.12</td>
<td>1.22</td>
<td>1.33</td>
<td>1.41</td>
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</table>

Product Range

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size (FNPT)</th>
<th>Flow Rates @ 100 psi g scfm</th>
<th>Dimensions (inches)</th>
<th>Weight (lbs)</th>
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<tbody>
<tr>
<td>G3WA</td>
<td>1/2&quot;</td>
<td>85</td>
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<td>G9WA</td>
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<tr>
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<tr>
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<td>2100</td>
<td>A: 12 B: 3.5 C: 30 D: 10</td>
<td>90</td>
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</tbody>
</table>

*For NPT connections suffix Model No. with NPT. Larger sizes on request

Recommended Water Separator Installation for High Performance

ZP = Grade ZP General Purpose/Dust Filter • XP = Grade XP High Efficiency Filter

All design specifications are subject to change without notice.
WA USA 03/03
Authorized Distributor: