The Parker Zander PNEUDRI MiDAS range of desiccant air dryers, offers the user uncompromised performance from a dedicated “point of use” Clean Dry Air system. It is easy to install and will transform an ordinary process into a highly reliable and efficient production operation.

Compressed air purification equipment must deliver uncompromising performance and reliability whilst providing the right balance of air quality with the lowest cost of operation. Many manufacturers offer products for the filtration and purification of contaminated compressed air, which are often selected only upon their initial purchase cost, with little or no regard for the air quality they provide, the cost of operation throughout their life or indeed their environmental impact. When purchasing purification equipment, delivered air quality, the overall cost of ownership and the equipment’s environmental impact must always be considered.

Benefits:

- PNEUDRI dryers provide efficient removal of water vapour from compressed air
- Delivered air quality is in accordance with all editions of ISO8573-1, the international standard for compressed air quality
- Improves production efficiency and reduces maintenance costs and downtime
- Pressure Dewpoint’s of -70°C & -40°C (ISO 8573-1:2010 Classes 1 & 2) are available
- Unlike refrigeration dryers, the -40°C & -70°C pressure dewpoint’s offered by PNEUDRI not only eliminates corrosion, it also inhibits the growth of micro-organisms
- Ideal for both compressor room and point of use applications
- Low noise level <75 db (A)
- Compared to traditional twin tower dryer designs, PNEUDRI’s unique modular construction and snowstorm filling of the adsorbent desiccant material provides:-
  - Consistent dewpoint performance
  - A smaller, more compact and lightweight dryer
  - Simple to install and easy to maintain
  - Fully corrosion protected inside and out
  - Approvals to International Standards (PED, CSA/UL/CRN)
  - Eliminates the need for costly annual pressure vessel inspections
  - 10 year guarantee on pressure envelope
## Dryer Performance

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size</th>
<th>L/S</th>
<th>m³/min</th>
<th>m³/hr</th>
<th>cfm</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAS1</td>
<td>G ¾</td>
<td>1</td>
<td>0.09</td>
<td>5.1</td>
<td>3</td>
</tr>
<tr>
<td>DAS2</td>
<td>G ¾</td>
<td>2</td>
<td>0.14</td>
<td>8.5</td>
<td>5</td>
</tr>
<tr>
<td>DAS3</td>
<td>G ¾</td>
<td>4</td>
<td>0.23</td>
<td>13.6</td>
<td>8</td>
</tr>
<tr>
<td>DAS4</td>
<td>G ¾</td>
<td>5</td>
<td>0.28</td>
<td>17.0</td>
<td>10</td>
</tr>
<tr>
<td>DAS5</td>
<td>G ¾</td>
<td>6</td>
<td>0.37</td>
<td>22.1</td>
<td>13</td>
</tr>
<tr>
<td>DAS6</td>
<td>G ¾</td>
<td>7</td>
<td>0.43</td>
<td>25.5</td>
<td>15</td>
</tr>
<tr>
<td>DAS7</td>
<td>G ¾</td>
<td>9</td>
<td>0.57</td>
<td>34.0</td>
<td>20</td>
</tr>
</tbody>
</table>

### Stated Flows
- Flows are for operation at 7 bar g (100 psi g) with reference to 20°C, 1 bar a, 0% relative water vapour pressure.
- For flows at other pressures, apply the correction factors shown.

### Temperature Correction Factor CFT

<table>
<thead>
<tr>
<th>Maximum Inlet Temperature</th>
<th>°C</th>
<th>25</th>
<th>30</th>
<th>35</th>
<th>40</th>
<th>45</th>
<th>50</th>
</tr>
</thead>
<tbody>
<tr>
<td>°F</td>
<td>77</td>
<td>67</td>
<td>57</td>
<td>47</td>
<td>37</td>
<td>27</td>
<td>17</td>
</tr>
<tr>
<td>CFT</td>
<td>1.00</td>
<td>1.00</td>
<td>1.00</td>
<td>1.04</td>
<td>1.14</td>
<td>1.37</td>
<td></td>
</tr>
</tbody>
</table>

### Pressure Correction Factor CFP

<table>
<thead>
<tr>
<th>Minimum Inlet Pressure</th>
<th>bar g</th>
<th>4</th>
<th>5</th>
<th>6</th>
<th>7</th>
<th>8</th>
<th>9</th>
<th>10</th>
<th>11</th>
<th>12</th>
</tr>
</thead>
<tbody>
<tr>
<td>psi g</td>
<td>58</td>
<td>73</td>
<td>87</td>
<td>102</td>
<td>116</td>
<td>131</td>
<td>145</td>
<td>160</td>
<td>174</td>
<td></td>
</tr>
<tr>
<td>CFP</td>
<td>1.60</td>
<td>1.33</td>
<td>1.14</td>
<td>1.00</td>
<td>1.03</td>
<td>0.93</td>
<td>0.85</td>
<td>0.78</td>
<td>0.71</td>
<td></td>
</tr>
</tbody>
</table>

### Dewpoint Correction Factor CFD

<table>
<thead>
<tr>
<th>Required Dewpoint</th>
<th>PDP °C</th>
<th>-40</th>
<th>-70</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>PDP °F</td>
<td>-40</td>
<td>-100</td>
</tr>
<tr>
<td></td>
<td>CFD</td>
<td>1.00</td>
<td>1.43</td>
</tr>
</tbody>
</table>

## Product Selection

Stated flows are for operation at 7 bar g (100 psi g) with reference to 20°C, 1 bar a, 0% relative water vapour pressure.
For flows at other pressures, apply the correction factors shown.

### Correction Factor

1. Obtain the minimum operating pressure, maximum inlet temperature and maximum compressed air flow rate at the inlet of the dryer.
2. Obtain the outlet dewpoint required.
3. Select correction factor for maximum inlet temperature from the CFT Table (always round up e.g. for 37°C use 40°C correction factor)
4. Select correction factor for minimum inlet pressure from the CFP table (always round down e.g. for 5.3 bar use 5 bar correction factor)
5. Select correction factor for required outlet dewpoint from the CFD table

### Dryer Selection

To correctly select a dryer model, the flow rate of the dryer must be adjusted for the minimum operating pressure and, maximum operational temperature of the system. If the dewpoint required is different to the standard dewpoint of the dryer then the flow rate must also be adjusted for the required outlet dewpoint.

1. Obtain the minimum operating pressure, maximum inlet temperature and maximum compressed air flow rate at the inlet of the dryer.
2. Obtain the dewpoint required.
3. Select correction factor for maximum inlet temperature from the CFT Table (always round up e.g. for 37°C use 40°C correction factor)
4. Select correction factor for minimum inlet pressure from the CFP table (always round down e.g. for 5.3 bar use 5 bar correction factor)
5. Select correction factor for required outlet dewpoint from the CFD table
6. Calculate minimum drying capacity
   
   Minimum Drying Capacity = Compressed Air Flow x CFT x CFP x CFD

If the minimum drying capacity exceeds the maximum values of the models shown within the tables, please contact Parker for advice regarding larger multi-banked dryers.
## Technical Data

<table>
<thead>
<tr>
<th>Dryer Models</th>
<th>Min Operating Pressure</th>
<th>Max Operating Pressure</th>
<th>Min Operating Temperature</th>
<th>Max Operating Temperature</th>
<th>Max Ambient Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAS</td>
<td>4 bar g / 58 psi g</td>
<td>12 bar g / 175 psi g</td>
<td>2 °C / 35 °F</td>
<td>50 °C / 122 °F</td>
<td>55 °C / 131 °F</td>
</tr>
</tbody>
</table>

*Please state dewpoint at the time of ordering*

```
= N (NPT) = B (BSPT)
```

### Weights and Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size</th>
<th>Filter Pipe Size BSPT or NPT</th>
<th>Inlet General Purpose Pre-filter</th>
<th>Inlet High Efficiency Filter</th>
<th>Outlet Dust Filter</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAS1</td>
<td>G1/4</td>
<td>AO005E X</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
<tr>
<td>DAS2</td>
<td>G1/4</td>
<td>AO005E X</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
<tr>
<td>DAS3</td>
<td>G1/4</td>
<td>AO005E X</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
<tr>
<td>DAS4</td>
<td>G1/4</td>
<td>AO005E X</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
<tr>
<td>DAS5</td>
<td>G1/4</td>
<td>AO005E X</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
<tr>
<td>DAS6</td>
<td>G1/4</td>
<td>AOP0010E</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
<tr>
<td>DAS7</td>
<td>G1/4</td>
<td>AOP0010E</td>
<td>N/A*</td>
<td>N/A*</td>
<td></td>
</tr>
</tbody>
</table>

*MiDAS dryers include integral high efficiency pre and general purpose dust filters*

### Maintenance kits

<table>
<thead>
<tr>
<th>Model</th>
<th>Maintenance Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>DAS 1</td>
<td>DASMK1</td>
</tr>
<tr>
<td>DAS 2</td>
<td>DASMK2</td>
</tr>
<tr>
<td>DAS 3</td>
<td>DASMK3</td>
</tr>
<tr>
<td>DAS 4</td>
<td>DASMK4</td>
</tr>
<tr>
<td>DAS 5</td>
<td>DASMK5</td>
</tr>
<tr>
<td>DAS 6</td>
<td>DASMK6</td>
</tr>
<tr>
<td>DAS 7</td>
<td>DASMK7</td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Kit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Fixed Wall Mounting Bracket</td>
<td>DASM81</td>
</tr>
<tr>
<td>45° Tilt Wall Mounting Bracket</td>
<td>DASM82</td>
</tr>
<tr>
<td>Purge Economy Gland Kit</td>
<td>608203185</td>
</tr>
<tr>
<td>Volt Free Relay Kit</td>
<td>608203186</td>
</tr>
</tbody>
</table>

---

Weights and Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size</th>
<th>Dimensions</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Height (H)</td>
<td>Width (W)</td>
<td>Depth (D)</td>
</tr>
<tr>
<td>DAS1</td>
<td>422 mm/16.6 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
<tr>
<td>DAS2</td>
<td>500 mm/19.7 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
<tr>
<td>DAS3</td>
<td>616 mm/24.2 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
<tr>
<td>DAS4</td>
<td>692 mm/27.2 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
<tr>
<td>DAS5</td>
<td>847 mm/33.3 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
<tr>
<td>DAS6</td>
<td>906 mm/35.7 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
<tr>
<td>DAS7</td>
<td>1098 mm/43.2 ins</td>
<td>289 mm/11.4 ins</td>
<td>149 mm/5.9 ins</td>
</tr>
</tbody>
</table>
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