Compressed Air Dryers
Type 4 dryer range for railway applications

Compressed air adsorption dryers
Compressed air adsorption dryers are designed to remove water vapour only. Water in a liquid or aerosol form additionally requires the use of coalescing filters to remove effectively. The Type 4 modular adsorption dryer comprises of twin desiccant filled chambers to dry the compressed air as it passes through, using the pressure swing adsorption (PSA) method of drying. One chamber is operational (drying), while the opposite chamber is regenerating.

This type of dryer is extremely efficient and a typical pressure dew point for adsorption dryers is -40°C (-40°F). However, in rolling stock applications, the dryness of the compressed air is stated as a dew point suppression.

For compressed air applications such as braking systems and ancillaries (e.g. wipers and horn), the Type 4 dryer can be specified in vertical or stacked configurations to meet your space requirements and is therefore eminently suitable for locomotives.

The Parker domnick hunter Design Philosophy
Parker domnick hunter has been supplying its customers with high efficiency compressed air purification products since 1963. Our philosophy ‘Designed for Air Quality & Energy Efficiency’ ensures products that not only provide the user with clean, oil-free and dry compressed air, but also with low lifetime costs and reduced CO₂ emissions.

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Benefits:
• Delivered air quality in accordance with NF F11-100 and ISO8573-1:2010, the International standard for compressed air quality
• Continued protection of downstream equipment and applications
• Consistent dew point performance
• Reduce unplanned maintenance and set out for service costs
• Easy to maintain
• Low operational costs
• Compact and lightweight
• Low noise level <75dB(A)
• Approvals to international standards
• 10 year guarantee on pressure envelope
• Peace of mind

ENGINEERING YOUR SUCCESS.
Dryer orientation
The Parker domnick hunter compressed air drying systems also have the advantage of being installed in stacked orientations where the available space envelope precludes the vertical installation of a dryer.

Technical Data

Desiccant Dryer Type:
- Dew Point Suppression

Drying Efficiency (typically):
- 40ºC (72ºF) pdp reduction on inlet temperature

Test Methods used:
- ISO7183:2007 (generally in accordance with)

Operating Pressure:
- 4 bar g to 12 bar g (58 psi g to 174 psi g)

Operating Temperature range:
- -25ºC to +70ºC (-13ºF to +158ºF) with trace heating

Initial Differential Pressure:
- <200mbar (3psi) at 7 bar g (100 psi g)

Precede with Filtration Grades:
- Grades SE/GE & HE – Lubricated Compressor
- Grades SE & HE – Oil-Free Compressor

Change Desiccant Every:
- 3 – 5 years

Shock and Vibration:
- Tested to BPRB/LU Ltd./RIA Technical Specification No.20.

Product Selection

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size BSPP</th>
<th>Flow Rates L/min cfm</th>
<th>Recommended Filtration</th>
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</thead>
<tbody>
<tr>
<td>TD*1100G</td>
<td>G1</td>
<td>2000 70</td>
<td>TF-SE</td>
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<tr>
<td>TD*1300G</td>
<td></td>
<td>2440 85</td>
<td>TF-GE</td>
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<tr>
<td>TD*1636G</td>
<td></td>
<td>3200 112</td>
<td>TF-HE</td>
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<tr>
<td>TD*1968G</td>
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<td>3950 138</td>
<td>TF-DE</td>
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<tr>
<td>TD*2200G</td>
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<td>4500 158</td>
<td>TF-SE240E</td>
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<tr>
<td>TD*2464G</td>
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<td>5100 179</td>
<td>TF-GE360E</td>
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Weights and Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Pipe Size BSPP</th>
<th>Height (H) mm ins</th>
<th>Width (W) 334 13.1</th>
<th>Depth (D) 786 30.9</th>
<th>Weight kg lbs</th>
</tr>
</thead>
<tbody>
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<td>TD*1100G</td>
<td>G1</td>
<td>675 26.6</td>
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<td>123 271</td>
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<td>135 297</td>
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<td>155 341</td>
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<td>175 385</td>
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<td>1225 48.2</td>
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<td>189 416</td>
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<tr>
<td>TD*2464G</td>
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<td>1357 53.4</td>
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<td>205 451</td>
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