



## Heatless Rental Air Dryer Comparison

### ADS Advantages – “Attention to Details Throughout Design”

Features	Air Dryer Supplier Inc.	Competition
Piping	<ul style="list-style-type: none"> <li>Welded pipe throughout design</li> <li>Unit is complete seal weld to reduce rust points</li> <li>Pressure piping B31.3</li> <li>ASME/CRN process pipe fittings</li> </ul>	<ul style="list-style-type: none"> <li>Complete seal weld is an option - \$\$</li> <li>Some use Victaulic fittings throughout design</li> <li>Movement of units with Victaulic fittings place tremendous stress on fittings which will likely lead to eventual failure</li> <li>Common cause of failure is clamping pipes too tightly causing them to go out-of-round</li> <li>Technicians often complain of difficulty replacing Victaulic fittings</li> <li>Replacement fittings are supplied to field primed only and can rust easily</li> <li>Each Victaulic fitting is a possible leak point</li> </ul>
Vessel Access	<ul style="list-style-type: none"> <li>Blind face flange</li> <li>Side of desiccant vessel where moisture will not pond and rust</li> </ul>	<ul style="list-style-type: none"> <li>Manway - gasket failure</li> <li>On top of desiccant vessel where ponding will hold moisture and lead to premature rusting / vessel replacement</li> </ul>
Pressure Rating	<ul style="list-style-type: none"> <li>Dryer is rated for 200 PSI</li> <li>Dryer can operate at variable pressures from 80 to 175 psi</li> </ul>	<ul style="list-style-type: none"> <li>Dryers are rated for 150 PSI</li> <li>Air Compressor can unload at 155 psi to 165 psi which will cause safety relief valves to lift</li> <li>Safety and liability concerns operating dryer outside of design</li> </ul>
Controls	<ul style="list-style-type: none"> <li>Solid state control board specifically designed for harsh environment</li> <li>NEMA 4X Enclosure</li> <li>Tower Drying Indication</li> <li>Tower Regenerating Indication</li> <li>Selectable cycle settings for dew points of -40°F and -80°F</li> <li>Power On/Off Switch</li> <li>Failure to switch alarm</li> </ul>	<ul style="list-style-type: none"> <li>Many use a PLC which is complicated to operate and expensive to replace</li> <li>PLC's are suspect to high ambient temperature</li> <li>Viewing in sun light is difficult</li> </ul>

Switching Valves	<ul style="list-style-type: none"> <li>• Bray high performance butterfly valves specifically designed for Rental Market</li> <li>• Time proven design</li> </ul>	<ul style="list-style-type: none"> <li>• Some use proprietary valves not designed for the Rental Market and expensive to replace</li> </ul>
Filtration	<ul style="list-style-type: none"> <li>• Top loaded filters for ease of maintenance</li> <li>• Single bolt cap to remove</li> <li>• Lowest overall pressure drop</li> <li>• ASME/CRN filters and separator</li> </ul>	<ul style="list-style-type: none"> <li>• Small manway supplied which is low to ground and makes replacing multiple elements difficult</li> <li>• Element hold down rods often break</li> <li>• Multiple elements to purchase and inventory</li> <li>• Unknown if ASME / CRN</li> </ul>
Low Ambient Package (Option)	<ul style="list-style-type: none"> <li>• Optional – ambient temperature range -20°F to +110°F</li> <li>• Insulation jackets are removeable and serviceable.</li> <li>• Control panel heater</li> </ul>	<ul style="list-style-type: none"> <li>• Optional - ambient temperature range minus 10°F to plus 110°F</li> <li>• Unknown</li> <li>• Unknown</li> </ul>
Paint / Surface Treatment	<ul style="list-style-type: none"> <li>• Sand blasted to SSPC6</li> <li>• In-organic Zinc primer</li> <li>• Carboline paint system for high corrosion protection</li> <li>• Xylon coated bolts for corrosion resistance.</li> </ul>	<ul style="list-style-type: none"> <li>• Sand blasting not stated</li> <li>• Primer not stated</li> <li>• Epoxy finish coat – option for higher corrosion protection \$\$</li> <li>• Bolt corrosion protection unknown</li> </ul>
Safety Relief Valve	<ul style="list-style-type: none"> <li>• PRV calculations and certificates provided</li> <li>• Full flow safety pressure relief valves with top blow off for personnel protection</li> </ul>	<ul style="list-style-type: none"> <li>• Not stated if PRV calculations and certificates provided</li> <li>• Not stated</li> </ul>
Air Motor Lubricator	<ul style="list-style-type: none"> <li>• 64 oz Lubricator with tamper free internal setting</li> </ul>	<ul style="list-style-type: none"> <li>• External setting easily tampered with</li> <li>• No oil is main cause for air motor failure</li> </ul>
Electrical Certification	<ul style="list-style-type: none"> <li>• ETL certified</li> </ul>	<ul style="list-style-type: none"> <li>• Not stated</li> </ul>



AIR DRYER SUPPLIER INC.  
1626 Wind Chase  
Drive Talbott, TN  
37877

P: 865-415-7478  
P: 865-415-7317

[www.airdryersuppliers.com](http://www.airdryersuppliers.com)