



Altec | AIR



**POINT-OF-USE
DESICCANT AIR DRYERS**



**AltecAIR.com
800.521.5351**

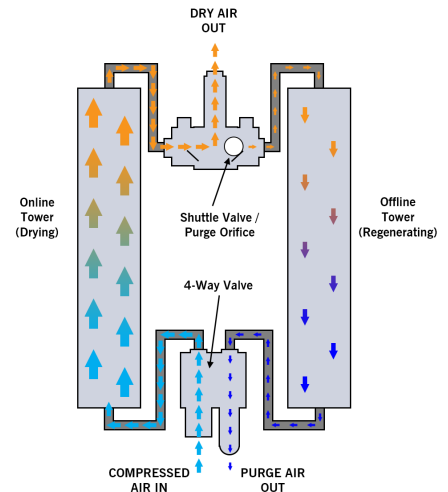
MDH Series Heatless Regenerative Desiccant Air Dryers



- Flow rates from 0.4 to 3.2 SCFM
- 6 Models Available to Match Your Application Requirements and Minimize Energy Loss
- -40°F/C Standard Outlet Dew Point (ISO 8573.1 Class 2)
- Solid-State Timer with Built-In Memory Ensures Reliable Drying Cycles
- Efficient Air Drying Performance from 50 PSIG to 120 PSIG Standard

How MDH Series Desiccant Air Dryers Function

The MDH Series Heatless Regenerative Desiccant Air Dryers employ Pressure Swing Adsorption (PSA) technology to remove water vapor from ordinary compressed air. The 4-Way Valve directs the wet air into one of the two Desiccant Towers, where nearly all of the water vapor is removed. The ultra-dry air leaving the Desiccant Tower passes through the Outlet Shuttle Valve to the application. A Precision Purge Orifice in the Outlet Shuttle Disk allows a portion of the dry air to be redirected back through the off-line Desiccant Tower, purging it of the accumulated moisture. The purge air then exits the unit through the 4-Way Valve and Muffler. A Solid-State Timer governs the process by controlling the 4-Way Valve.



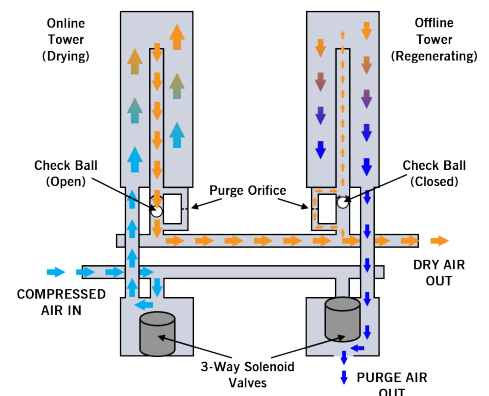
VSA Series Heatless Regenerative Desiccant Air Dryers



- Flow rates from 2.8 to 12.0 SCFM
- 4 Models Available to Match Your Application Requirements and Minimize Energy Loss
- -40°F/C Standard Outlet Dew Point (ISO 8573.1 Class 2)
- Fixed Orifice Purge Control for Consistent Ultra-Dry Outlet Conditions
- Available with ETL Listing

How VSA Series Desiccant Air Dryers Function

The VSA Series Heatless Regenerative Desiccant Air Dryers employ Pressure Swing Adsorption (PSA) technology. Ordinary compressed inlet air is passed through one Desiccant Tower where the water vapor is removed. The dry air then continues to the Outlet side of the Manifold and on to the application. A portion of the dried air is expanded through an Orifice and directed back through the offline Desiccant tower, purging the accumulated moisture. Every 30 seconds, a Solid-State Timer and two Solenoid Valves reverse the process. The result is a continuous supply of ultra-dry air.



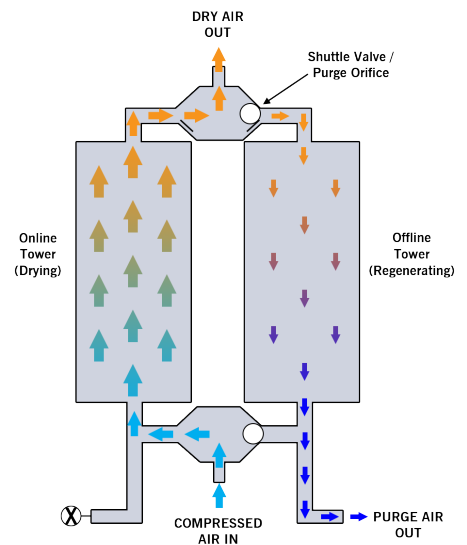
HR Series Heatless Regenerative Desiccant Air Dryers



- Flow rates from 3.0 to 50 SCFM
- 8 Models Available to Match Your Application Requirements and Minimize Energy Loss
- ISO 8573.1 Class 2 -40°F/C Standard Outlet Dew Point (-100°F/-73°C PDP available)
- Standard NEMA 4X Electrical Rating
- Fully Re-Pressurizing Design for Steady Outlet Pressure and Flow

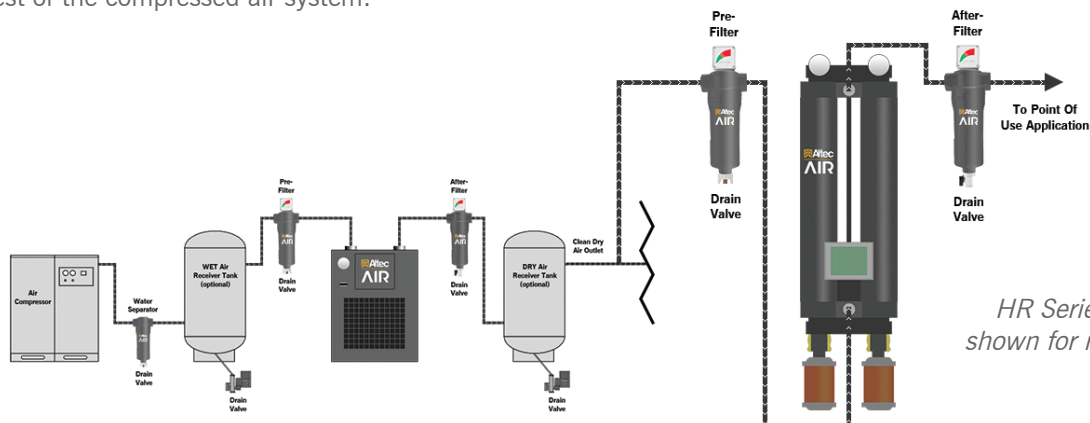
How HR Series Desiccant Air Dryers Function

The HR Series Heatless Regenerative Desiccant Air Dryers employ Pressure Swing Adsorption (PSA) Technology to remove water vapor from ordinary compressed air. The Inlet (lower) Shuttle Valve directs the wet air into the Online Desiccant Tower, where nearly all of the water vapor is removed. The ultra-dry air leaving the Desiccant Tower passes through the Outlet (upper) Shuttle Valve and on to the application. Both Shuttle Valves contain a wafer-like disk, which “shuttles” back and forth in the valve body based on the pressure differential created by the position of the Two-Way Solenoid Valves. A Purge Orifice in the Outlet Shuttle Disk allows a portion of the dry air leaving the Online Desiccant Tower to be redirected back through the Offline Tower, purging it of its accumulated moisture. The purge stream exits the unit through the open Solenoid Valve directly below the Tower being regenerated. A Solid-State Timer controls the process by opening and closing the Solenoid Valves.



Recommended Installations

A Point-Of-Use Dryer will be installed at the site of the application and will be sized for the outlet flow rate (or the demand of the application). These are smaller, more compact Air Dryers that are installed at an application that might require a lower Dew Point than the rest of the compressed air system.



*HR Series Air Dryer
shown for reference only.*

Filters & Accessories

Altec AIR provides an extensive range of Compressed Air Filters & Accessories to complement our Desiccant Air Dryers, providing single-source convenience and increased value for our Customer Partners.

- Compressed Air Pre-Filters (5μ and 1μ) & After Filters (0.01μ)
- Complete Filter Kits - Matched to Air Dryer Flow & Performance
- Moisture Indicators
- Bypass Kits
- And more...

Protecting Compressed Air Systems

Eliminating water from a compressed air system is vital to protecting equipment and improving productivity. If compressed air is left untreated, moisture can enter the system and cause premature tool failure, product spoilage, failed instrumentation, damage to actuators and cylinders, and more. Clean, Dry Air is a necessity if you want to protect valuable equipment and keep operations running smoothly.

The Altec AIR Story

Since 1954, Altec AIR (formerly Puregas, LLC) has been an industry leading manufacturer of Compressed Air Treatment equipment for a variety of markets & applications.

In 2003, Altec AIR joined the Altec Family, allowing Altec AIR to reach a new level of manufacturing efficiency and product innovation. Altec is a leading provider of products and services to the electric utility, telecommunications, tree care, lights and signs, and contractor markets. They have a proven record of manufacturing excellence, delivering products and services to more than 100 countries worldwide.

Altec AIR proudly manufactures our quality products in America and offers superior technical support as well as a variety of services.

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For more complete information on Altec AIR products and services, visit us on the web at www.AltecAIR.com.

Material and specifications are subject to change without notice. Featured units in photos may include optional features. Please contact an Altec AIR representative for all available options.

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