

ENERGY EFFICIENT COMPRESSED AIR PURIFICATION

HEAT REGENERATED ADSORPTION DRYERS



CLEAN & DRY COMPRESSED AIR HELPS DRIVE EFFECTIVE MANUFACTURING



Filtration and drying are an integral part of compressed air applications in use today. The tools, machines, and systems driven by compressed air vary in size and complexity, but all require protection from harmful contaminants and impurities to operate at peak efficiency.

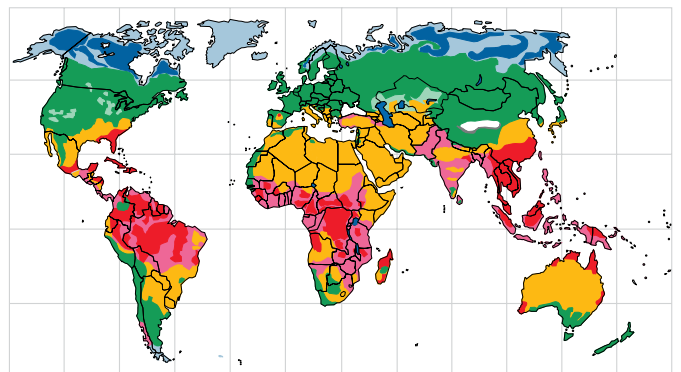
In operations that demand high-volume flows, heat regenerated adsorption dryers are often the most effective and energy-efficient means of generating very dry air.

Donaldson's Ultradryer+ series of heat regenerated adsorption dryers are ideal for processes that utilize large volumes of compressed air with very low residual moisture for pressure dewpoints below 0°C.

RELIABLE & STABLE DEWPOINT PERFORMANCE – EVEN UNDER CHALLENGING CONDITIONS

Donaldson helps you plan, design, and manufacture complete energy-efficient adsorption systems tailored to your specific application, climate and conditions.

Our externally heated Ultradryer+ series of heat regenerated adsorption dryers are available in sizes from **375 m³/h to 8,760 m³/h** for pressure dewpoints down to -70°C. Larger sizes available upon request.



FINDING THE RIGHT DRYER FOR YOUR APPLICATION IS EASY

HRS+

HRS-L+

HRE+



Most Energy Efficient Ultradryer+ Option

Desorption and cooling with ambient air drawn in by a blower

Desorption in counter-current flow

Energy-saving (zero purge, low desorption temperature)

Low operating cost

Easy maintenance

Designed for Tropical & Subtropical Conditions

Closed loop cooling with a water-cooled heat exchanger

Energy-saving (zero purge)

Low operating cost

Easy maintenance

Pressure dewpoint down to -70°C

Purge Cooling for Applications at High Ambient Temperature Conditions

Suitable for all climate zones

Low investment cost

Easy maintenance



ULTRADRYER+ STANDARD FEATURES

- + Ultraeconomy Dewpoint Capacity Control
- + Valve Position Control
- + Power Supply for Electronic Drains
- + Alarm Contacts for Electronic Drains & External Devices
- + Ethernet Communication Interface
- + Dry Gas/Purge Cooling On-Demand (HRS+)
- + Control Box Temperature Control
- + Single Conductor Cable Marking
- + High-Temperature Resistant Paint
- + Cooling Water Shut-Off Valve (HRS-L+)

DEWPOINT CAPACITY CONTROL HELPS SUPPORT ENERGY-EFFICIENT OPERATIONS

Designed for energy efficiency, our Ultradyrer+ series features **Ultraconomy Dewpoint Capacity Control**, which senses the dewpoint of the compressed air and initiates regeneration only when its pressure dewpoint exceeds the limit value and the capacity of the desiccant is fully utilized. This dewpoint-dependent capacity control automatically adapts to your operating conditions, regenerating the desiccant only as needed, saving energy in the process.

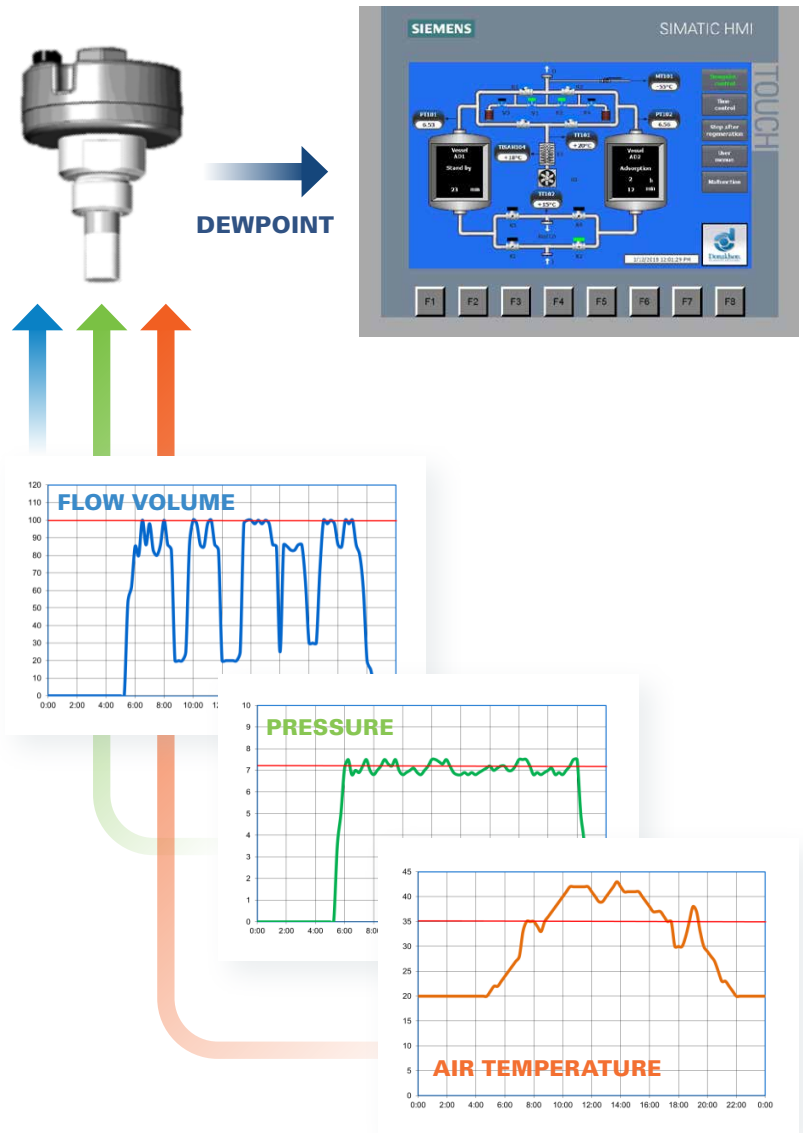
In addition, the dryer's optional **Weekend Stop Mode** allows it to remain under pressure during shut-down periods, such as weekends.

The optional ENERSAVE desiccant layer requires low regeneration temperature, leading to less heating energy, which supports additional energy-saving opportunities.

CONTROL & CONNECTIVITY

The easy-to-read Ultradyrer+ control panel provides continuous monitoring of pressure dewpoint and drying performance.

The controller also comes standard with an ethernet communications interface that is ready for Industry 4.0 smart manufacturing and connectivity to a central control system.



For more information on the Ultradyrer+ series of heat regenerated adsorption dryers, or for help identifying the right dryer for your application, contact your local Donaldson representative today.

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