



Did You
Know...
January 2018 Edition

Featured Unit: Air-Cooled DX Rooftop Air Handler Using an Active Regen Desiccant Wheel with Pre & Post Cooling Coils

Contact us at
sales@xetexinc.com

Low Grain Desiccant Dehumidification

Low grain desiccant dehumidification applications can be some of the most complex air handler designs because of the critical nature of the space conditions they serve. These spaces generally have low moisture requirements that must be met year round regardless of the outdoor air conditions. Xetex's team can help you navigate through these types of complex projects from the design phase to the final unit start-up.

This month the showcase unit features a desiccant dehumidification wheel using a pre-cooling and post cooling DX coil. The application for this unit is for a brewery in the northeast region of the United States. The Desiccant dehumidification energy wheel uses active regeneration from a directed fired furnace which allows the unit to discharge a moisture level of 24 gr/lb.

The direct fired furnace which is used on the reactivation air stream raises the air temperature allowing the energy wheel to reject moisture that was adsorb from the process air stream.

Other unit highlights include:

- 2" double wall casing with mineral wool insulation
- Desiccant dehumidification energy wheel comprised of silica gel on fiberglass substrate
- 60 nominal tons of pre-cooling
- 40 nominal tons of post cooling
- Direct Drive fans with VFD control
- Fan motor lifting beam
- Stainless steel drain pans
- Full factory unit controls
- Custom Color Paint

If you need assistance on any application you are currently working on please contact Xetex Sales at 612-724-3101 or email us at sales@xetexinc.com.

Unit Specification:

Model:	AHR-AD1525-22500-RT-RC-CD-AC-HD		
Height:	108"	Width:	120"
Length:	390"	Weight:	22,000 lbs.
OA Summer Design:	95°Fdb / 80°Fwb	OA Winter Design:	14°Fdb
Supply CFM:	22,500	Energy Recovery:	Desiccant Energy Wheel
Cool Type:	DX Air Cooled	Heat Type:	Direct Fired for Regen
Leaving Cooling Temp:	56°Fdb / 46°Fwb	Leaving Moisture:	24 gr/lb

