

Aircel Introduces Newly Designed AHLD E-Series Desiccant Dryer

Providing efficient and reliable compressed air and gas purification for every application.

Maryville, TN (June 14, 2012) — Aircel is pleased to introduce the new AHLD E-Series heatless desiccant air dryer. This model represents a significant engineering improvement in terms of energy management, reliability, and standard features from the legacy AHLD model that it replaces.

The AHLD E-Series is Aircel's standard offering for applications that require heatless or pressure swing adsorption dryers for industrial dehydration applications ranging from 70 - 5000 scfm. Utilizing the latest technological advancements, the AHLD E-Series delivers load-matching performance by precisely matching input power to real time demand.

Aircel's new line of AHLD E-Series heatless regenerative desiccant dryers are a significant technological development designed to give maximum efficiency and minimum operating costs, long reliable service, and low outlet dew point. The AHLD E-Series provides a constant outlet dew point with no moisture or temperature spike during tower switchover.

Advanced Standard Improvements

- Accurate Moisture Sensing with Energy Management System
- Electronic Purge Reduction with Aircel Programmable Controller
- Durable Automatic Piston Valves with 10 Year Longevity
- LED Tower Display Indicating Sequence of Operation
- Enhanced Designed for Unique Purge Exhaust Mufflers
- Fail-safe Design for Uninterrupted Drying

Energy Efficient Control

Aircel's innovative Energy Management System reduces the purge air consumption and minimizes operating cost by lengthening the drying period under low load conditions. A capacitance humidity sensor mounted on the control enclosure is supplied with compressed air from the middle of the on-stream drying tower and monitors the humidity continuously. The humidity probe sends a digital signal to the dryer controller, which is proportional to the moisture content of the air.

The humidity sensor is a microporous polymeric capacitor, which provides reliability, detection stability, and long service life. The polymeric capacitor is superior to other humidity sensors such as the metal oxide sensor, which requires frequent laboratory calibration and the lithium chloride and chemically impregnated sensors, which require frequent replacement.

Accurate Purge Reduction Control

The Aircel Programmable Controller (APC) receives the digital electronic signal from the Energy Management System (EMS) humidity sensor and switches over the desiccant towers when high moisture content is detected. The APC is the most advanced version of the compact Programmable Logic Computers (PLC's) with non-volatile memory, maintenance free intelligent electrical relays, and a powerful visualization display. It features remote start/stop capability, integral timers, automatic restart after a power failure, event history, and is user friendly for automation services. A diagram with light



emitting diodes (LED's) is mounted on the cover of the NEMA 4 electrical enclosure indicating the status of each desiccant tower, whether drying, regenerating, or in stand-by mode.

Application Modification Available

Aircel prides our unique approach to compressed air and gas drying by creating reliable standard dryers, but also developing custom drying solutions for our customers. The AHLD E-Series can be modified to fit in hazardous environments or offshore installations. In hazardous environments, Class 1 Division 2, a non-electrical all pneumatic control system is installed to operate the dryer and to switch over the desiccant towers. For offshore installations, Aircel provides a protective coating to resist the corrosive harsh marine atmosphere; stainless steel tubing and tube fittings, a NEMA 4X weather resistant electrical enclosure, and no copper bearing metals are used in the process stream.

The Aircel E-Series heatless dryers provide the most energy efficient, dependable service possible. The automatic controls and modern design features assure user satisfaction and long, trouble-free life.

For more information about the new AHLD E-Series, view the collection of product documents available online. <http://www.airceldryers.com/products/air-dryers/desiccant-dryers/ahld-regenerative-heatless-desiccant-dryer>

About Aircel – Your unique environment and applications are not standard to fit all, and your compressed air drying solutions shouldn't be either. Aircel engineers the compressed air drying technology your environment needs, while keeping your footprint, energy costs, and maintenance top of mind. Aircel has the experience, engineering and manufacturing capabilities to continuously develop dryers with the highest quality performance.

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