

A Peek at Moisture in a Cotton Gin and How That Could Relate to You...

It arrives from the field anywhere from a bone dry 2% moisture to a dripping 25%. Mixed with the cotton fiber is the seed it grows on, sticks, dirt, leaves, burrs, rocks and the occasional pipe wrench. It's fed into the gin at 2,000 pounds a minute. Once inside, it passes through three critical moisture phases, including a drying phase which must be fast enough to maximize production, yet gentle enough to protect the cotton used in the finest dress shirts.

Process conditions and feedstock variability not only stretch over a wide range, they change quickly, requiring responsive and flexible controls. For three months out of the year, our customers depend on our products to get the job done, rain or shine, 24 hours a day, 7 days a week. The rigorous demands of the process require sophisticated solutions. The use of seasonal labor requires easy-to-use, operator friendly interfaces. We design each of our products with these challenges in mind.

What do our products do the other nine months? The gins are idle, making our equipment idle, too. Despite this inactivity, our products still deliver an incredible return on investment through improved production and energy savings, often paying for themselves within one or two seasons.

With our products making such a large impact on the demanding and seasonal nature of a cotton gin, we've found ourselves wondering what other industries may benefit from our products and experience. We hope you find yourself asking that question, too.

We are not going to make bold, off-the-cuff claims about what our products can do in your application. But if moisture is important to your process, we want to learn about your needs and the challenges you face. Whether or not our products are a fit for you, there is a good chance we can learn a lot from each other. We promise that if you are looking for someone passionate about moisture, you won't be disappointed.

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Is Moisture Important to Your Process?





MEASURE

DRY

HUMIDIFY

Universal Moisture Sensors

These online resistance-based sensors are rugged, responsive and economical, making them a great option for sensing moisture in a variety of materials and locations for monitoring and managing critical moisture points.

Tex-Max Microwave Moisture Sensor

The Tex-Max uses microwaves to scan material as it moves through the field of measurement to determine moisture content. This is a highly accurate and repeatable method of sensing moisture.

The Moisture Mirror Line

Moisture Mirrors provide a centralized point to collect, monitor and manage moisture information.

Air Tools

Air handling systems are often key to the performance of a moisture control system. Air Tools monitors air flow at key points in your process.

Heaters

Our heaters feature a high air volume design and a wide operating range, making them a powerful, yet efficient hot air source for your drying process.

Dryers

We manufacture low pressure drop, high air volume friendly, flow through dryers. These dryers provide greater control of drying parameters, giving you more power to customize drying for your process needs.

Drying Accessories

Our product line includes a variety of drying system accessories, including air flow control devices. An example is the Electric Banjo, capable of controlling air flow and motor loads on centrifugal fans.

Moist Air Generators

Often referred to as Humidifiers, these devices output moist air to restore moisture to materials or control humidity to reduce problems like static. The moist air output is controlled by balancing a mix of heated air and water recirculating inside a scrubbing chamber. This unique approach offers significant advantages over spraying water droplets for many applications.

Moist Air Applicators

In situations where the moist air needs to mix directly with the process material, we offer a variety of applicators designed with energy and production efficiency in mind.

