

Cotton

DRYFOG
Controlled Humidity

Prodew
MISTING & HUMIDIFICATION



Superior Solutions for Controlled Humidity

DryFog saves costs,
enhances work
environment and
improves operation
efficiency

- Dry fog system – Quality high-end technology
- Increases humidity without wetness
- Prevents electrostatic voltage and sparks
- Increases bale weight
- Improves fiber flexibility
- Saves maintenance and energy costs

Superior Quality

The DryFog's controlled humidity system is outstanding in both performance and dramatic cost savings. The patented dry fog solution creates and controls high humidity conditions without wetting. As a result, the moisture level of the cotton is raised by up to 8% improving flexibility of the fiber and increasing total bale weight.

Patented Technology

DryFog's cutting edge solution includes the Tabor Atomizer – a uniform dry fog technology that combines low-pressure compressed air with water at atmospheric pressure to create vaporizing micro-droplets, ranging in 2-10 microns in diameter.

The uniform dry fog **immediately evaporates** into the air **increasing humidity without wetness**. The large atomizer orifice (1.5 mm in diameter) **significantly reduces clogging** for very low system maintenance and operation costs. The system is fully automated.

Applications

- Lint Slide
- Cotton Storage
- Ginning Hall
- Spinning Mill

Proven Results

With thousands of installations around the world, DryFog's solution provides continual humidity control to many cotton storage warehouses. For client reference please contact us

Benefits

Adding humidity in the Lint Slide:

- a. Adds 1.5%-3% humidity to the bale and increases bale weight
- b. Reduces the pressure required at the press
- c. Improves cotton quality at the mills

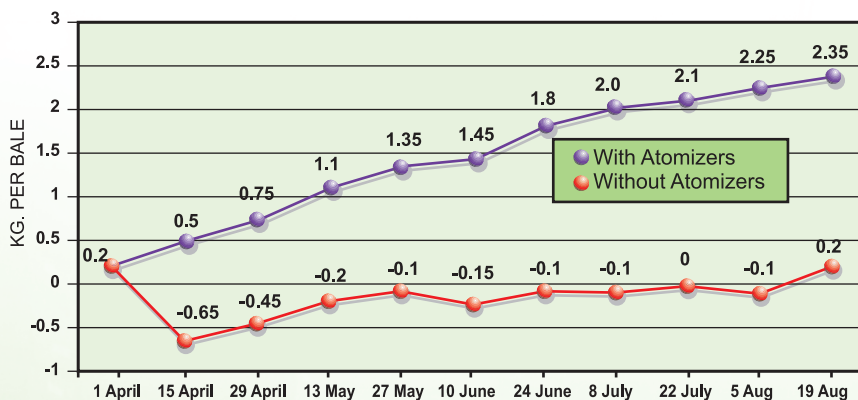
Adding humidity during Cotton Storage:

- a. Increases bale weight between 1%-5%
- b. Causes fibers to be more flexible and less exposed to electrostatic voltage and sparks

Adding humidity in the Ginning Hall:

- a. Cleans the air from flying objects
- b. Cools the air down
- c. Adds humidity to the cotton in the ginning process

Mean Weight Change in Cotton Bales in Atomized Warehouse



Technical Specifications:

| Tabor Atomizer | DryFog Sensors |
|-------------------------------------------------------|----------------------------------------------|
| Water inlet pressure: Atmospheric (or 1 Bar pressure) | Electrical Input: 12 V DC. |
| Water flow rate: 6 l/h 21 l/h | Sensor Output: 4-20 mA |
| Droplet size: 2 - 10 microns | Communication: RS 232 /485 |
| Vacuum level: 6 - 7 m water column | Temperature Operating Range: -20 C to +50o C |
| Nozzle orifice: 1.5 mm | Relative Humidity Range: up to 98% |
| Air flow rate: 60 l/m 215 l/m | |
| Air inlet pressure: 6 bars. | |