



## Why humidify?

For textile manufacturing...

# Trusted technology

Nortec humidifiers by Condaire are used in textile processing facilities around the world to maintain product weight,

improve quality, reduce static and provide air cooling. Some of the world's leading textile manufacturers put

their trust in Condaire humidification systems to help them achieve their production objectives.



## Global expertise, local solutions

Condaire has manufacturing facilities in Canada, UK, Denmark, Germany, Switzerland and China as well as wholly-owned sales operations in 13 countries and distributors in over 40 more.

The company has been serving the global textile industry for more than

70 years and is highly experienced in many different processing technologies, products, climates and all types of production facilities.

Humidification systems are designed for each individual application by textile humidification experts to create the optimal production environment.

If required, Condaire's regional R&D departments can work with a production team to deliver innovative solutions for unique textile processes.

Condaire's experience with many major textile companies ranges from initial concept discussions through to installation, commissioning and beyond.

# Improving profits with humidity control

Optimal humidity in textile manufacturing has many benefits that will enhance profitability. These include improving product quality, maintaining product weight, reducing machine downtime and improving employee comfort.



## Product weight

Maintaining the correct relative humidity will prevent moisture loss during a textile's processing and storage. Typically losses can be reduced from 4% to just 0.5%, which results in an immediate 3.5% increase in product yield and profitability.

## Yarn product quality

Fibre that is exposed to low humidity will become more brittle, be prone to breakage and suffer increased fibre shedding during yarn manufacture. This results in a poorer quality yarn and increased wastage. Correct humidification maintains yarn strength and elasticity, producing a better quality product with higher margins.

## Static control

Static build-up can cause reduced productivity and product quality due to lint and fly attraction, machine jams and employee discomfort or even accidents. Higher humidity naturally dissipates static charges alleviating these problems.

## Weaving efficiency

Optimal humidification reduces yarn breakages in weaving, reducing machine downtime as well as loom stop marks and weavers knots in the finished product. Condair has helped manufacturers increase their production efficiencies from as low as 49% up to 96% through effective humidity control.

## Employee comfort

Cold water humidifiers can deliver around 41°F (5°C) of evaporative cooling to a textile production facility. The increased humidity will also suppress dust and lint, creating a healthier and more productive atmosphere for employees.

## Optimal humidity levels

	SPINNING	TWISTING	WINDING	WEAVING
Wool	50-85% RH	60-65% RH	55-60% RH	50-60% RH
Cotton	35-65% RH	50-65% RH	55-65% RH	70-85% RH
Man-made fibres	45-65% RH	45-65% RH	60-65% RH	60-70% RH
Silk	60-65% RH	60-65% RH	60-65% RH	60-65% RH
Jute	75% RH	75% RH	75% RH	75% RH
Linen	80% RH	80% RH	80% RH	80% RH

# Solutions for textile humidification

Condair has a comprehensive range of humidification and evaporative cooling products to suit any textile application. From an individual in-room

steam humidifiers to large in-duct evaporative systems, Condair has the technology and expertise for the ideal solution.

Condair also offers a wide range of associated products such as water treatment systems, air compressors, pumps and humidity monitors.

**Condair ME-Series** Media Evaporative cooling and humidification



**JS-Series** Compressed air and water spray humidification



**HP-Series** High Pressure nozzle humidification

**ML-Series** High Pressure nozzle humidification

As the leading manufacturer of commercial/industrial humidification systems for more than 70 years, Condair has the technology and application expertise to meet the needs of any application.

**Contact us today and ensure you have the best humidification solution for your textile facility.**

**USA** 2700 90th Street, Sturtevant, WI 53177  
**Canada** 2740 Fenton Road, Ottawa, Ontario K1T 3T7  
**Tel** 1.866.667.8321 **Fax** 613.822.7964 **Email** na.info@condair.com

