



# Textile humidification

Increasing profits with environmental control

65-75%rH  
= maximum profits

By maintaining a level of 65-75% relative humidity (%rH) in textile manufacturing facilities static build-up can be reduced, regain improved, yarn breakage minimised and dust, fly and lint suppressed.

This will dramatically improve quality and maintain consistent product weight thus maximising profits.

Textile humidification will:

- Improve regain
- Maintain yarn strength
- Reduce static build-up
- Maintain product weight
- Reduce fly and micro-dust
- Provide free cooling

We have over 30 years experience in helping the textile industry across the globe solve dry air problems. As specialists in humidification, we offer a wide selection of low energy and close control humidifiers for all textile applications.

	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	50-65%rH	N/A	60-65%rH	60-70%rH

Our clients include:

Sadat Jute Mills, Bangladesh • Janata Jute Mills, Bangladesh  
Nejdek Wool Combing, Czech Republic • Regency Spinning, Eire  
Reiters, UK • Thomas French & Sons, UK • John Holdsworth, UK  
Filature Française de Mohair, France • Bhilwara Spinners Ltd, India  
Gloster Jute Mills, India • Rajasthan Spinning & Weaving Mills, India  
Egarfil Group (Ponsfil), Spain • FulFlex Inc-Lincoln, US • Millikens US

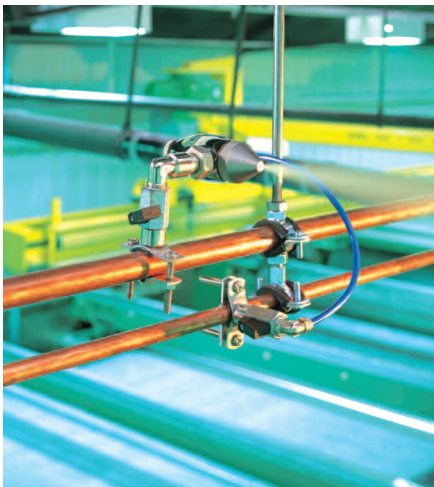


# Why humidify in the textile industry?

Humidity control in the textile industry is essential in order to maintain product quality and reduce imperfections. A dry environment in textile manufacturing and storage facilities can have many serious implications:

### Regain

Dry air causes lower regain and this contributes to poor quality and lower productivity. By humidifying the materials are kept at optimum regain



and are less prone to breakage, heating and friction effects, they handle better, have fewer imperfections, are more uniform and feel better.

### Static electrification

Dry materials create more friction and are more prone to static electrification. Higher humidity reduces static problems and makes materials more manageable increasing machine speeds.

### Yarn strength

Yarns with low moisture content are weaker, thinner, more brittle and less elastic.

### Fabric shrinkage

Low humidity causes fabric shrinkage. Maintained humidity permits greater reliability in cutting and fitting during garment creation and contributes to the maintenance of specification where dimensions are important, such as in the carpet industry.



### Product weight

Textile weights are standardised at 60%rH and 20°C (68°F). Maintaining humidity will ensure low product weights don't lead to lowered profits.

### Dust

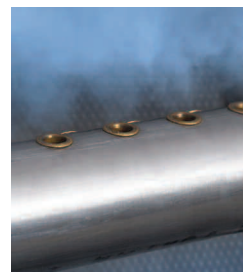
Humidification reduces fly and micro-dust, providing a healthier and more comfortable working environment.

### Cooling

A cold-water spray humidification system can provide an evaporative cooling effect of up to 12°C (54°F). This makes the environment more comfortable to work in and improves staff productivity.

## Why JS Humidifiers?

JS Humidifiers offers a comprehensive service of humidifier system design, installation and maintenance. Our range includes spray, steam and evaporative humidifiers and with over 30 years experience in textile humidification we are ideally placed to advise you on which type will be most suitable for your specific application.



[www.jshumidifiers.com](http://www.jshumidifiers.com)

JS has a policy of continually improving products and performance. Actual specifications might vary from those shown.

### JS Humidifiers plc

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