



Cleanroom humidification

Increasing profits with environmental control

**+/-2%rH across
any 24 hour period**

Precisely controlling the humidity levels within a cleanroom environment can maximise product quality and yields, ensure worker comfort and eliminate electro-static build-up.

Standard heating, ventilating and air conditioning equipment cannot meet the stringent requirements of a cleanroom. Precise control, 24 hour operation, high heat gains from equipment and potentially massive humidity loads all combine to make maintaining a set humidity level across any time period extremely difficult.

Correct cleanroom humidification will:

- Maximise product yields
- Maximise product quality
- Minimise wastage
- Maintain worker comfort
- Eliminate electro-static build-up

Our clients include:

Oxford University • ICI • Astra Zeneca • Genzyme • Medisense
Alcatel • BAE Systems • Xerox • NEC Semiconductor • Intel
Hewlett Packard • IBM • Philips Semiconductors • DePuy • Glaxo
Galen Pharmaceutical • National Semiconductor • Pfizer • Abbotts
Boston Scientific • Wellcome Trust • Blood Central Linz • Millipore

Why humidify in Cleanrooms?

If the humidity level in a cleanroom manufacturing environment drops it could, at least, result in worker discomfort and, at worst, result in significant product wastage due to poor quality or failing to meet FDA environmental parameters. However, investment in a quality humidification system will not just maintain standards but also assist in increasing productivity.

Increased productivity

By working alongside the client's research and development team, JS has helped



increase production yields in some cleanroom environments by as much as 60%. Through testing production at different humidity levels and then holding optimum levels indefinitely during manufacturing, wastage due to poor environmental control was virtually eliminated.

Consistent close control

Having the expertise to design specialist cleanroom humidification systems enables JS to provide a consistent humidity level at $\pm 2\%rH$ across any 24 hour period. If a humidity requirement is so extreme that it would produce human discomfort then a localised delivery system can be employed, delivering air to a specific process environment.

24/7 support

Our UK-wide network of experienced service engineers provides the back-up and support that a cleanroom facility requires. We understand how important downtime is and provide planned maintenance agreements, a ready supply of spares and fast responses to service requirements 365 days a year.



Applications include:

- Medical devices
- Semi-conductors
- Pharmaceuticals
- Calibration labs
- Optical equipment
- Mobile phones
- Computer chips
- Aerospace
- Weapons systems
- Fibre optics
- Contact lenses
- Compact discs
- R&D
- Assembly lines

Why JS Humidifiers?

JS Humidifiers offers the widest selection of humidifiers available in the UK and operates the largest humidifier service engineering department in Europe. Our range includes spray, steam and evaporative systems as well as bespoke units that provide temperature as well as humidity control. With over 30 years experience in cleanroom humidification, JS can provide assistance with FDA and GAMP2 validation, Product Design Specifications and User Requirement Specifications.



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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