

# Case studies

## Electronics

“The Fog Engineers”  
いけうち H. IKEUCHI & CO., LTD.

### Process: Surface Mount Process

## Achieving to maintain humidity level of 45%, thereby reducing ESD damages and gaining trust of customers.

ESD damages on electronic components and solder paste printing defects.

Each winter at a PCB assembly factory, static electricity due to dryness caused ESD damages on electronic components and solder paste printing defects.

While considering installation of Dry Fog Humidification System for measures against static electricity, the customer were concerned about the negative impact that the products and the machines got wet.

Seeing and touching fineness of the non-wetting fog "Dry Fog" in a demonstration dispelled their concerns.



Solving problems related with static electricity without wetting products and machines.

Installation of Dry Fog Humidification System AirAKI® enabled an automated humidity control at 45%, thereby reducing the ESD damages to 1/10 and the printing defects substantially. Besides, the system, which clearly visualized that humidification was implemented, made customers' queries about humidity control unnecessary, and helped gain the trust of the customers.

There was no negative impact observed, which had been initially concerned about, on the products or equipment.

Since AirAKI® humidifies indoor air by lowering temperature with heat of vaporization, it also helps reduce the cooling load on existing air-conditioners.



### Dry Fog Humidification System AirAKI®

AirAKI®, an energy-saving humidification system spraying "Dry Fog" that does not wet products, equipment and people, prevents problems caused by static electricity, reduces defective products and improves product quality.

It also helps reduce the cooling load on existing air-conditioners.



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