

Case studies

Plastics

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

Process: Plastic Molding

Humidification in plastic molding process with Dry Fog reduces static charge buildup, thereby preventing foreign particle adhesion and improving work efficiency.

Dryness in the winter causing static electricity and even sparks.

Each winter at a plastic molding factory, static electricity due to dryness caused problems. Static charge buildup on the product surfaces was more likely to attract foreign particles, thereby increasing risks of defective products or disposal of them. At a humidity level below 30%, even sparks arose when the product was touched, which reduced work efficiency.

Since the ionizers already installed could not effectively remove the charge, fundamental measures were desired for preventing the static electricity generation and improving the work environment.

Lowering a static charge level prevents the particle attraction and improves the work environment.

Our measurement in an on-site checking found the static charge in some spots exceeded 20 kV that was the maximum measurable value.

After we humidified the process by spraying Dry Fog that does not wet products or equipment, the charge decreased to a single-digit level.

Installation of Dry Fog Humidification System made it possible to automatically maintain an optimal humidity level.

It got rid of the problem of foreign particle attraction and prevents sparks, thereby increasing the productivity.



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 dryness or static electricity, and improves product quality and work efficiency.



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