

For Electronics Industry

PCB Mounting & Assembly

Cut Mounting Defects

to about

0!
zero

AirAKI® Dry Fog Industrial Humidification System

Optical drive production facility (Dalian, China)



Advantages

- Improves PCB solder printing and mounting quality.
- Helps solve problems from static charge.
- Reduction in air conditioning costs, energy savings.

AirAKI® Merits

- Easily adaptable to changes in floor layout.
- Very low maintainance.

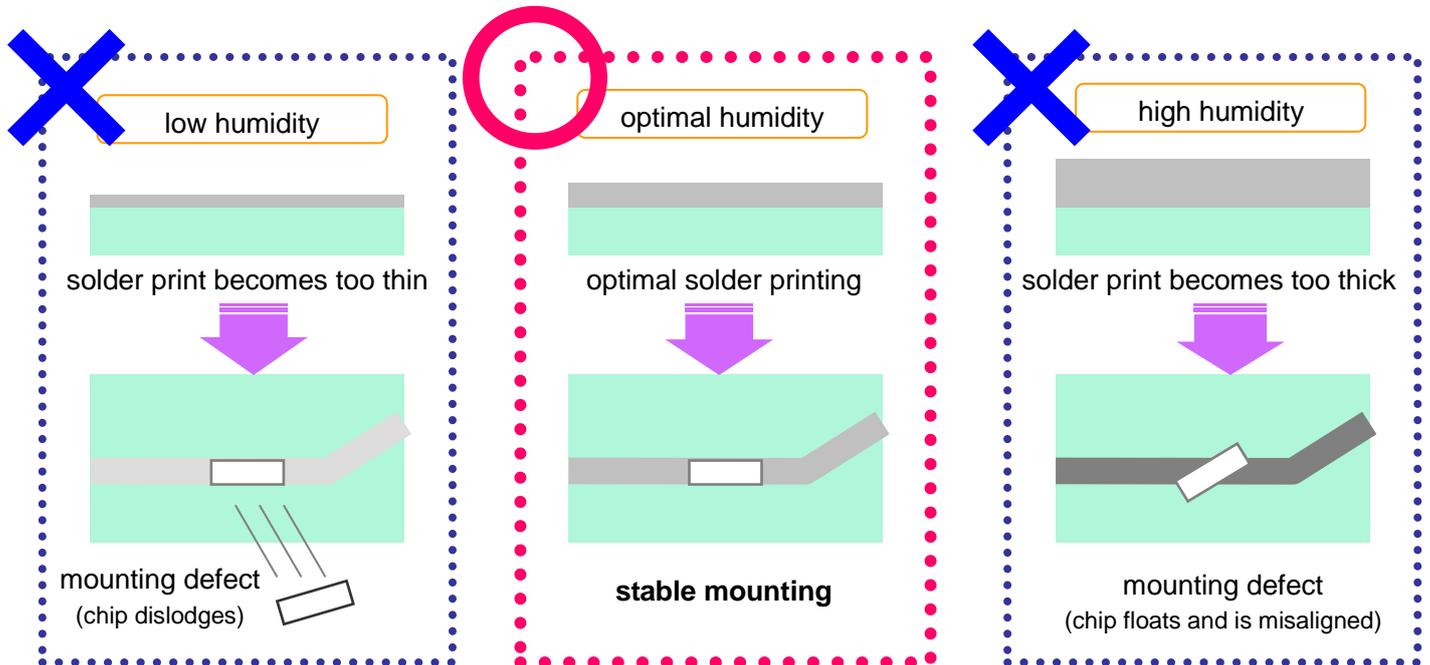
Proven Track Record

- Safe, even in precision part production where water droplets would be a problem.
- Our technology has proven, effective results.
- Wide acceptance by car electronics makers.



Improve PCB mounting quality

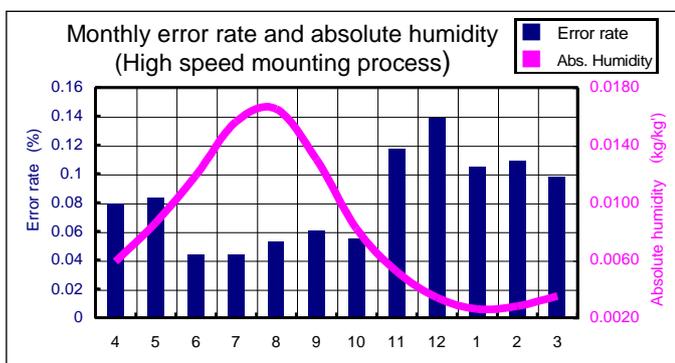
The mounting quality is influenced by the solder printing quality which is strongly affected by humidity. Maintaining an optimal humidity level for printing, improves the overall product quality.



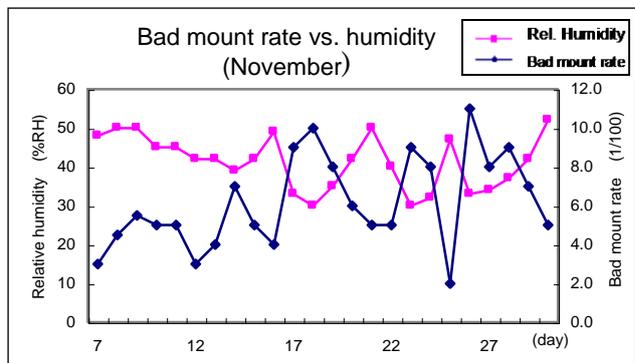
Keeping humidity at the optimal level is key!

Reduce Circuit Damage, Dust Adhesion

Maintaining even humidity levels year-round reduces problems caused by static electricity, such as: circuit damage, dust adhesion, bad mounts and therefore error rates, greatly increasing product quality.



Humidity vs. Error rate



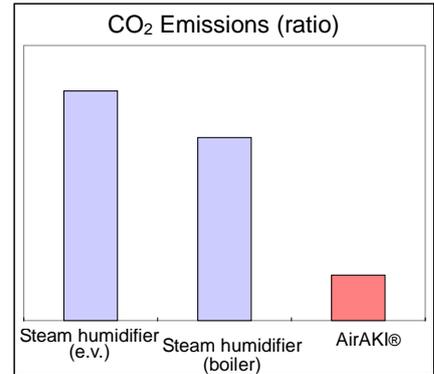
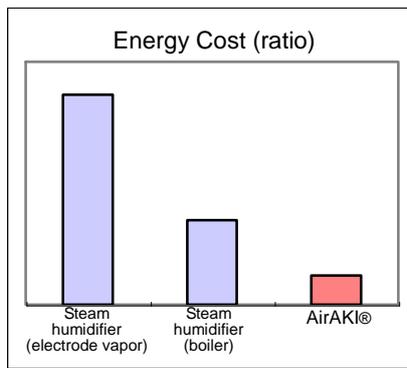
Humidity vs. bad mount rate

Mounting troubles occur usually during the winter months when the humidity is low. There is a noticeable change in the error rate depending on humidity. Bad mounts caused by static charge occur at a higher rate with low humidity. Small parts are easily influenced by humidity.

Also Reduces Air Conditioning Costs

Lower Energy Costs

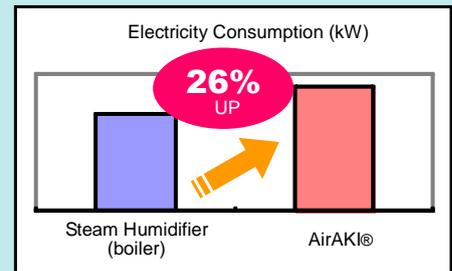
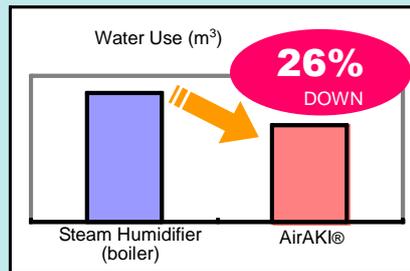
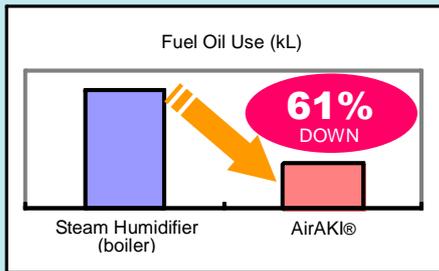
Our energy-saving "AirAKI®" humidification system cools the air as it humidifies. The pneumatic air-water spray method uses much less energy than steam humidifiers, and cools the air instead of heating it with steam.



Performance Results

Customer who switched from a steam humidifier (boiler) to AirAKI®
Review period: November to May

Humidified space: 9800m³ (346,100 ft³)
Planned max. humidification rate: 451.2 L/hr (119GPH)
(Installed 47 AKIMist® "E" humidifiers)



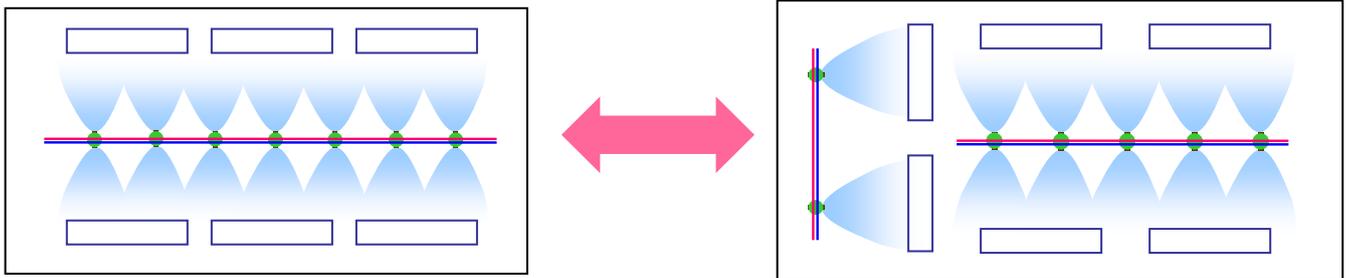
*In case where customer uses pure water

Annual Investment Return: \$80,700 per year Savings!
CO2 Emissions: 580t/yr Reduction!

AirAKI® Merits

Flexible Installation

Easily adapts to changes in the plant layout by rerouting the piping (*some work required). Popular in the electronics industry where production layout change frequently as products change. Easy to use and easy to maintain!



Proven Track Record

Safe even in precision part production where water droplets could be a problem. Our technology has proven, effective results.

Semiconductors

IC semiconductor plants, LCD panel, crystal oscillator, chip capacitor, hard disk, GMR head, color filters, backlights, LED elements, pickup lens

Automotive Electronics

Engine computer, airbag system, anti-lock brake system, steering system, headlight system, power window unit, maker-installed car navigation

Consumer Products

LCD television, cellular phone (media, base stations), DVD recorder/player, all types of memory, medical equipment, digital camera, camera lens, fiber optic cable

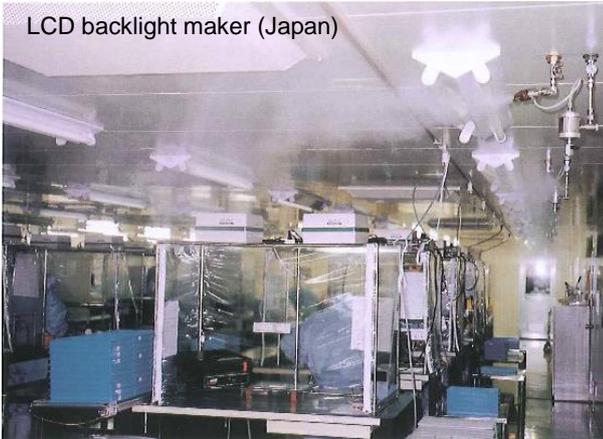
Many more

Airplane dock (maintenance bay), communications systems, surface mounting, assembly, amusement, etc.

For more details, please contact a sales representative.

Creating the Ideal Plant Environment

Before installing an "AirAKI®" system, our representatives meet with the customer for a detailed discussion of the needs and an on-site review of the facilities. A humidification system and layout is designed to meet all requirements and needs of the individual customer and their specific environment.



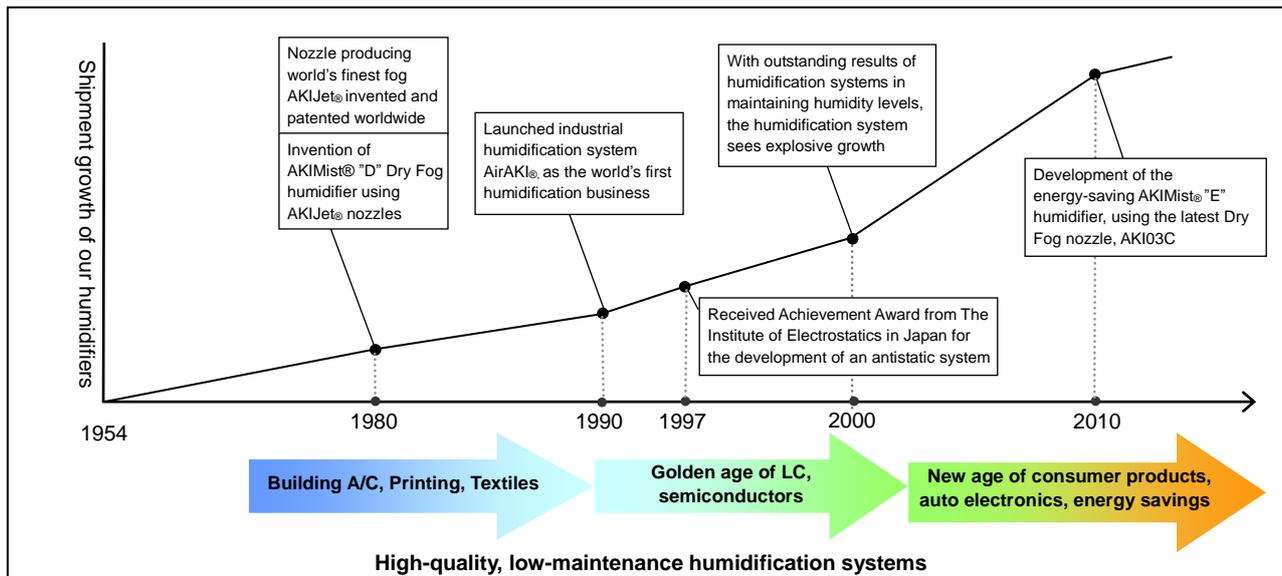
IKEUCHI's atomizing technology is highly advanced, consistently producing fine droplets unmatched in the industry.

AirAKI® uses our worldwide-patented "AKIJet®" nozzle, a ground-breaking design producing high-quality Dry Fog which is popular in many different industries.

We do not only produce humidification systems, but continuously develop and improve control systems, water purifiers and other related equipment.



"AirAKI®" focused on the A/C, printing and textile industries, and is now seeing rapid growth in the electronics industry.



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ISO9001:2008 certified

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