

IKEUCHI Aviation solutions

PROBLEMS IN MRO PAINT SHOPS

Dust and Paint Suppression

- Dust-related defects and repair time
- Cleaning costs and time
- Airborne contamination (*sanding dust particles*)
- Long turnaround time

IKEUCHI



Humidification

- Paint cracks
- Dust-related defects
- Drying time water-based solvents



IKEUCHI'S SOLUTIONS

- Dust and paint suppression systems & humidification systems

We offer customized solutions adapted to our customer's hangar. We take into account the various influences that have an impact on the solution we offer.



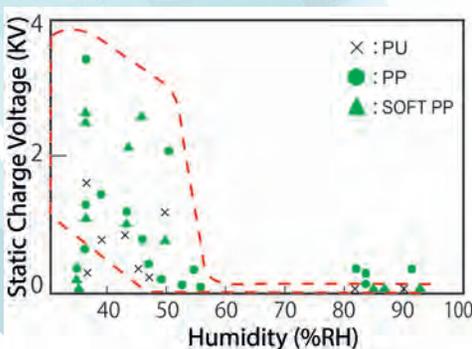
Your hangar's criteria

- Hangar size
- Air refreshment rate
- Air flow
- Local climate
- Existing installations

Our customized solutions

- Pneumatic systems
- Hydraulic systems
- Fan systems

ITS APPLICATIONS



Sanding and painting in the same hangar causes several issues for MRO paint shops, one of them being dust particles in the air. Our systems spray small water droplets in the air during and after the sanding process to suppress dust. The water droplets attach themselves to dust particles, and suppress them down to the ground. The water droplets that are sprayed into the air serve as a natural conductor for ions, thereby preventing static charge. These two effects prevent dust particles from sticking to objects. Paint fumes will also be absorbed by the water droplets, cleaning the air in the process. Adding more humidity to the air improves the drying of water-based solvents.



- These combined systems simultaneously achieve dust suppression and humidification in your hangar.

In addition, these solutions improve the general air condition and ambient cooling, creating a better working environment for your employees.

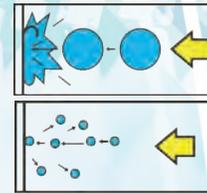
OUR PRODUCTS COMBINED INTO A COMPLETE SOLUTION

AKIMist®“E”

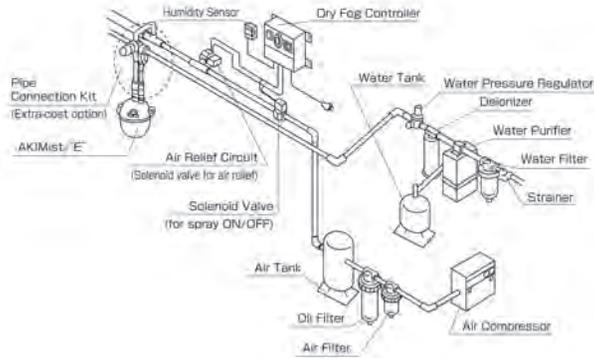


Pneumatic Systems: AKIMist®“E”, BIM

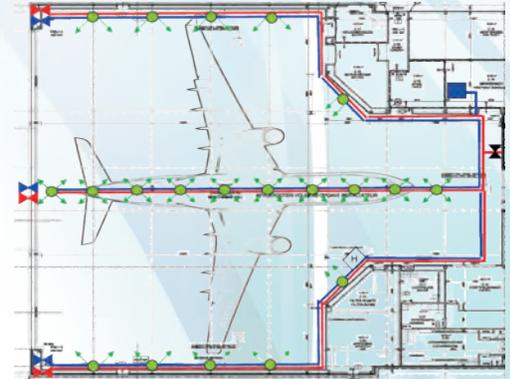
Using air and water, pneumatic nozzles can create fine droplets. These small droplets will not break: dust will be suppressed without wetting the environment. Through a precisely engineering process, a fine fog with uniform droplet size distribution will effectively humidify a target space.



BIM



Complete installation of the AKIMist®“E” system in detail (picture on the left) and in a hangar (picture on the right)



KB / KBN



Hydraulic Systems: KB, KBN, LYOHM

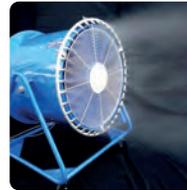
All IKEUCHI's precision-made hydraulic spray nozzles have a guaranteed spray capacity and spray angle.

Guarantee of performance

Spray Angle Tolerance



Spray Capacity Tolerance



Fan Systems: COOLJetter® (CLJ)

COOLJetter® is a fog system that cools, humidifies, and suppresses dust for large scale facilities. Easy to operate, its electric power consumption is only 1/10 of a standard air-conditioning unit.



Air Systems: TAIFUJet®

TAIFUJet® is uniquely designed to take in surrounding air and amplify the air flow. It also minimizes the noise level and creates a uniform spray impact. It saves 45% of energy compared to pipe-shaped air nozzles.

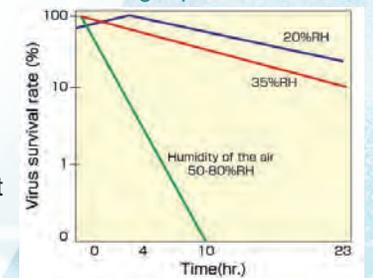
ADVANTAGES

- Dust and paint suppression through atomization
- Clean air (less paint fumes)
- Dual-benefit: dust suppression & humidification
- Easy to install
- Add-on to existing HVAC System
- Lower operating cost
- High efficiency
- Low maintenance

BENEFITS

- Productivity increased
- Less cleaning time
- Less downtime
- Fewer repairs
- Lower employee costs
- Better working environment
- Less dust
- Less paint fumes
- Higher humidity

Maintaining Operator's Health



Humidity over 50%RH cuts the lifespan of cold and flu viruses, helping reduce worker sick days.

For inquiries / information requests / quotations related to this product, please contact us



“The Fog Engineers” IKEUCHI EUROPE B.V.



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“Taking the path less traveled”
「人の足跡を踏むな」

