



Spraying and humidification systems for the automotive sector

Optimizing your manufacturing processes



“The Fog Engineers”

IKEUCHI EUROPE B.V.



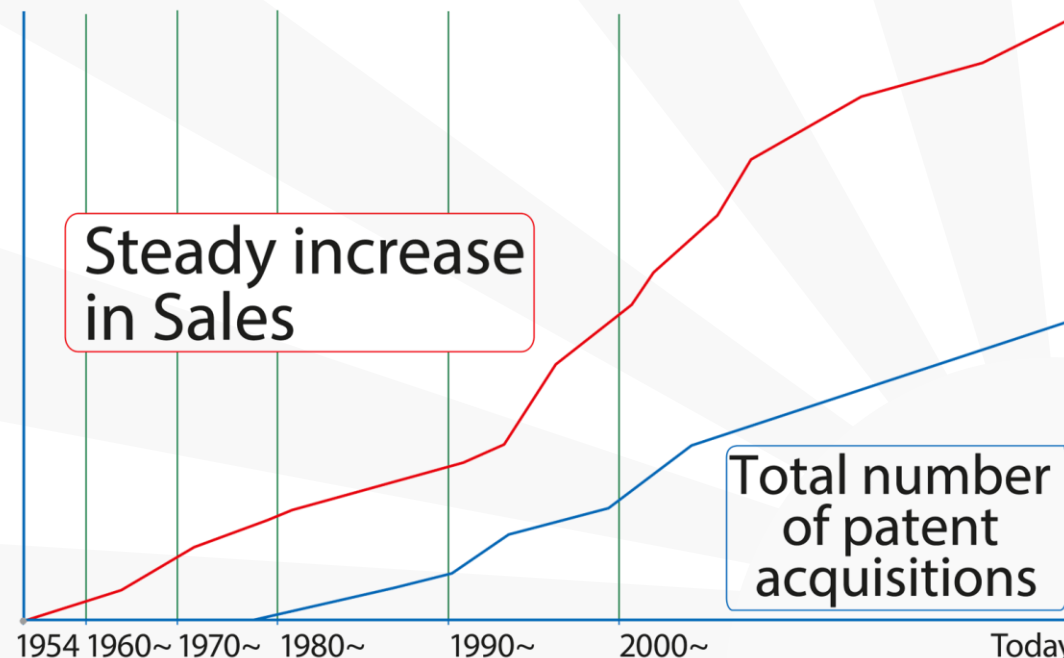
Market leader in Asia



Growing company

- Founded in 1954
- Offering over 42,000 products
- 500 employees
- Established subsidiaries worldwide

- 35 patent acquisitions*
- 53 trademarks*



IKEUCHI

IKEUCHI

Manufacturer of spraying and humidification systems



Markets

Agriculture, livestock	Automotive		Aviation		Electronics	Environment
Food industry	Healthcare		Paper & pulp, printing		Pollution control	Steel industry



References



“The Fog Engineers”

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IKEUCHI

IKEUCHI Solution provider



SOLUTION



Analysis



Products

=



Engineering
advices

+

+



Services

IKEUCHI
worldwide

Automotive
industry

Painting /
Coating
line

Our
solutions



“The Fog Engineers”

IKEUCHI EUROPE B.V.

IKEUCHI worldwide



Sales offices
and production sites



Domestic Sites		
 Headquarters	 Nishiwaki Factory	 Kure Factory
<ul style="list-style-type: none"> Osaka Tokyo Saitama Yokohama 	<ul style="list-style-type: none"> Nagoya Hiroshima Fukuoka Sendai 	<ul style="list-style-type: none"> Nishiwaki Factory Kure Factory

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IKEUCHI
worldwide

Automotive
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Painting /
Coating
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line

Our
solutions

Automotive industry



Our solutions for automotive manufacturing processes

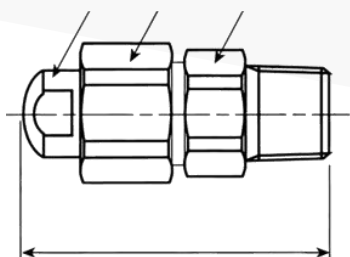
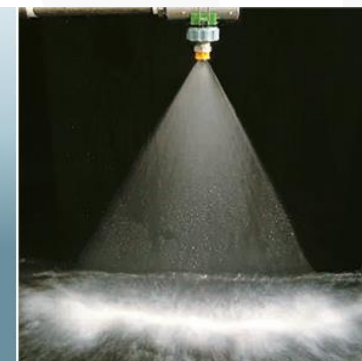
Body shop



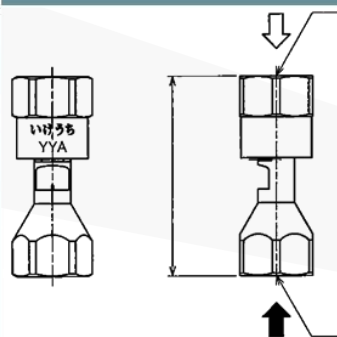
Engine



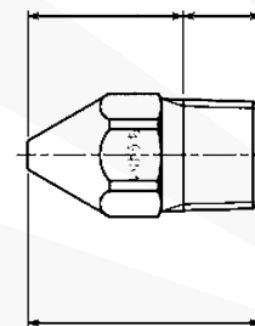
Plastic shop



Electronics



Paint shop



“Facility
optimization”



“The Fog Engineers”

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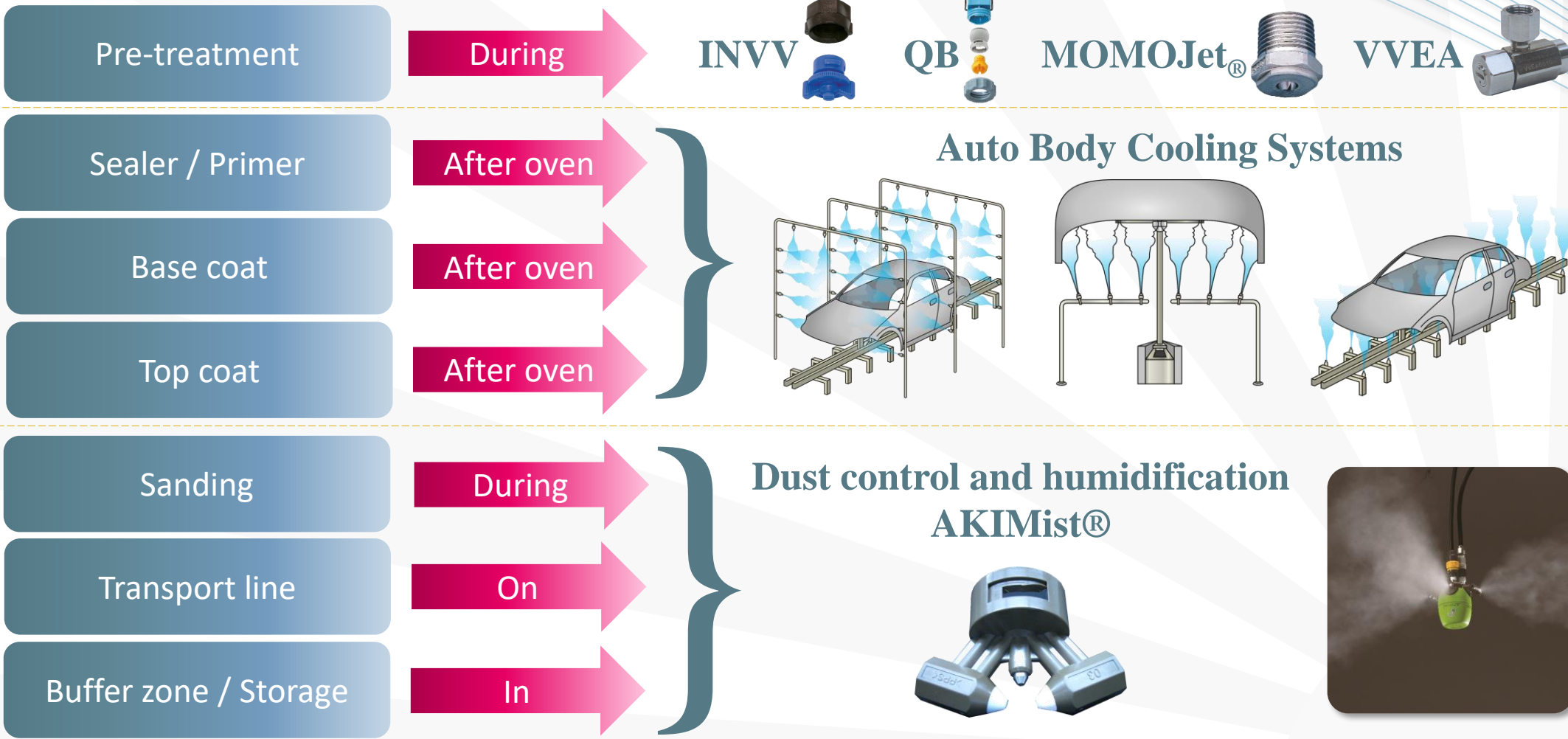
IKEUCHI
worldwide

Automotive
industry

Painting /
Coating line

Our
solutions

Painting / Coating Line



Pre-treatment maintenance cost & water reduction

Advantages:

- One touch
- Higher chemical resistance



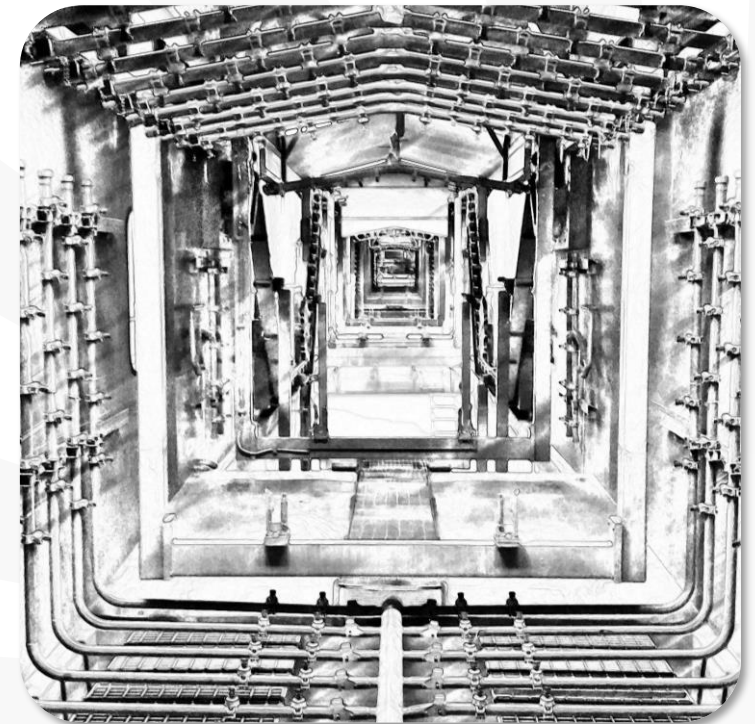
INVV



QB

Benefits:

- Reduced maintenance time



Pre-treatment maintenance cost & water reduction

Advantages:

- Self-cleaning nozzle
- No clogging → no maintenance
- Longer lifetime than plastic nozzles
- Easy to use

Benefit:

- More effective and even washing
(no diffused spray patterns)

MOMOJet®



Pre-treatment maintenance cost & water reduction



Advantages:

- Uniform distribution
- Pneumatic nozzle: smaller droplets with a higher impact



Benefits:

- Effective washing
- Decreased use of DI water
- Large turn-down ratio

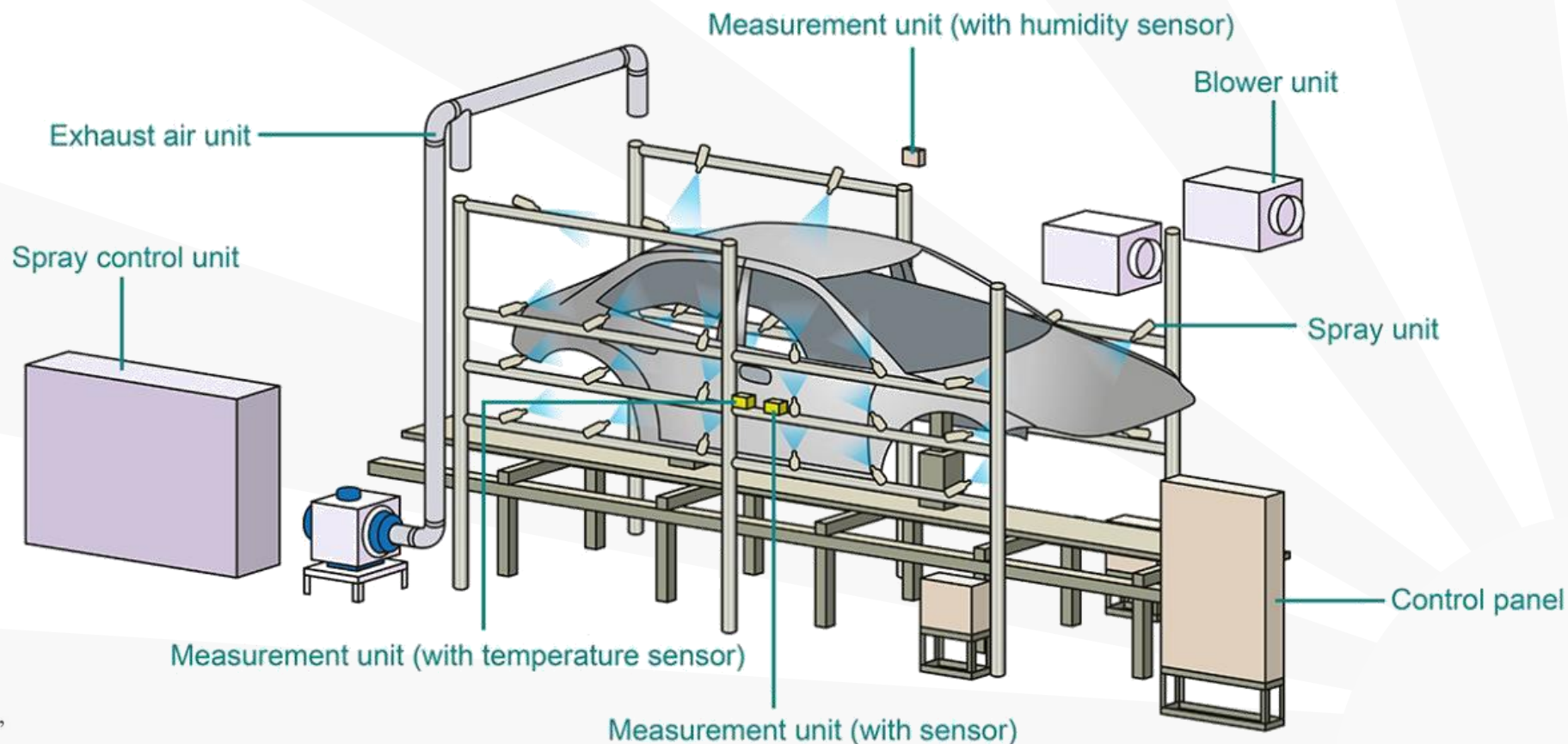
VVEA



Auto Body Cooling Systems: (Semi-) Dry fog



Applications: Painting, coating, and sealer processes

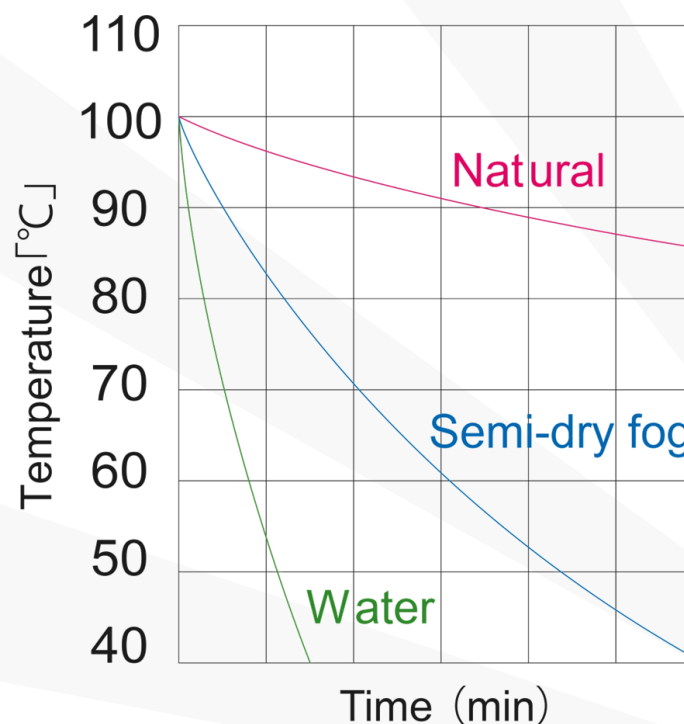


Auto Body Cooling Systems: (Semi-) Dry fog



Advantages:

- Water-based cooling
- Compact system
- Automated on/off systems
- Lower running costs
- Non-wetting solution



Natural cooling
Long waiting time

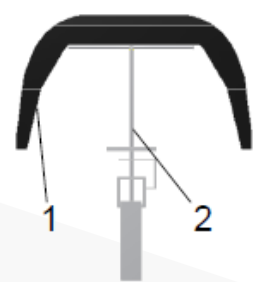
Semi-dry fog cooling
Good product quality

Water cooling
Thermal cracking

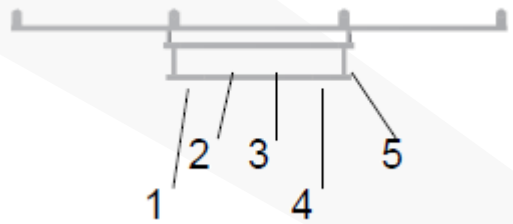
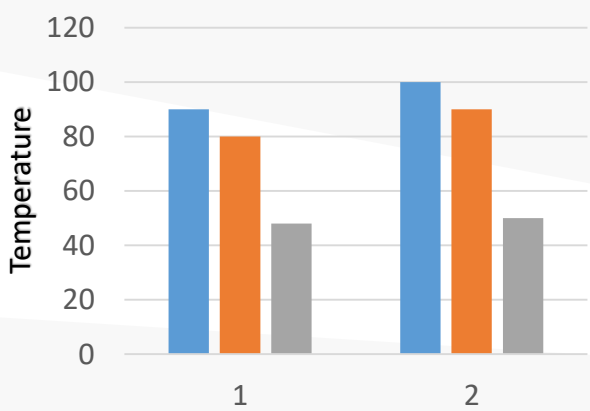
Auto Body Cooling Systems: (Semi-) Dry fog



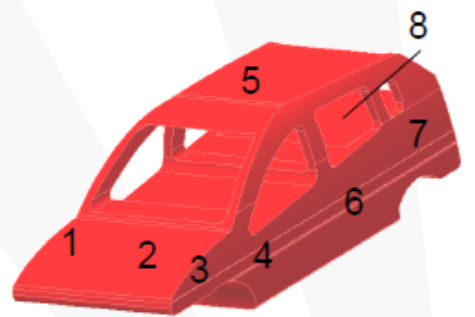
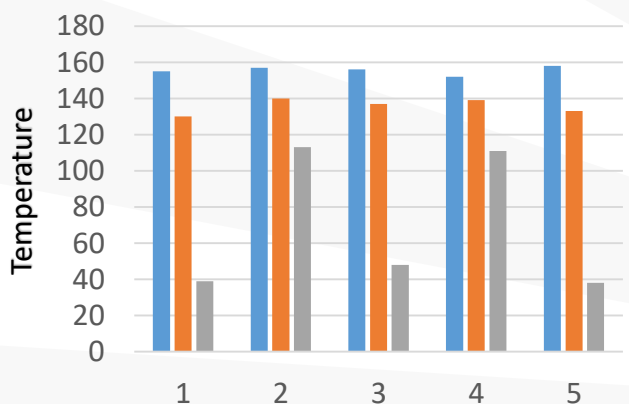
Benefits: Working environment cooled down by 5-10°C



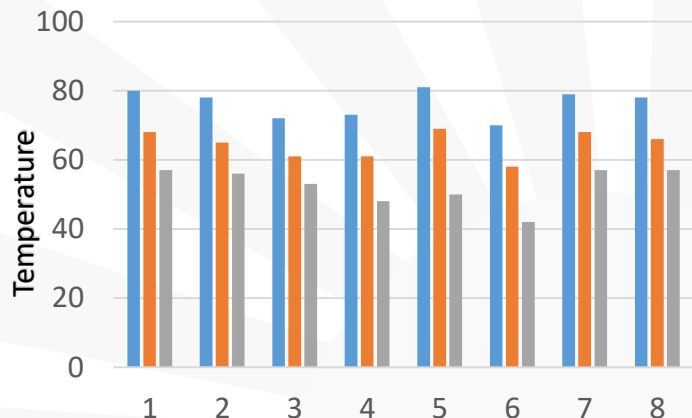
Cooling effect for bumper



Cooling effect for conveyor



Cooling effect for car body

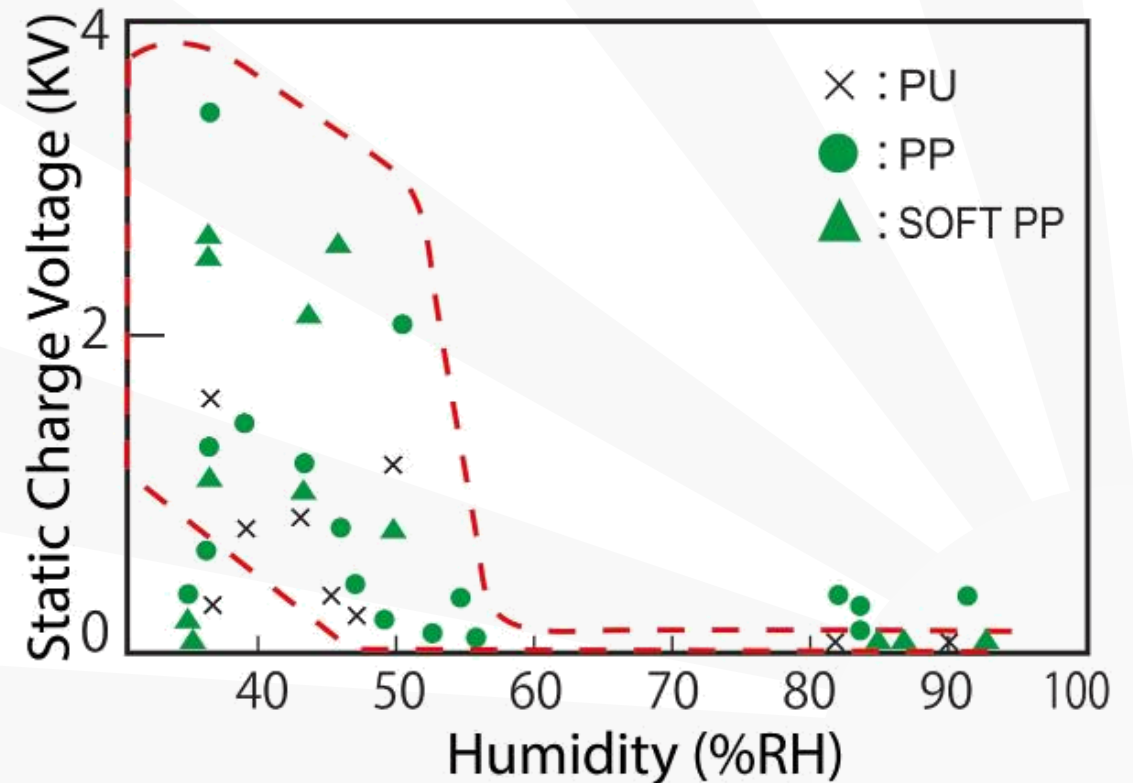


Dust control & humidification: AKIMist® "E"



Applications:

- Dust suppression
(e.g., during sanding process)
- Humidification to
eliminate static charge

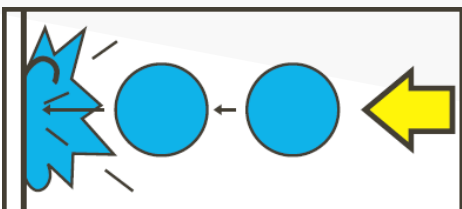
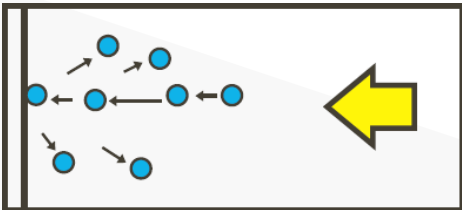


Dust control & humidification: AKIMist® "E"

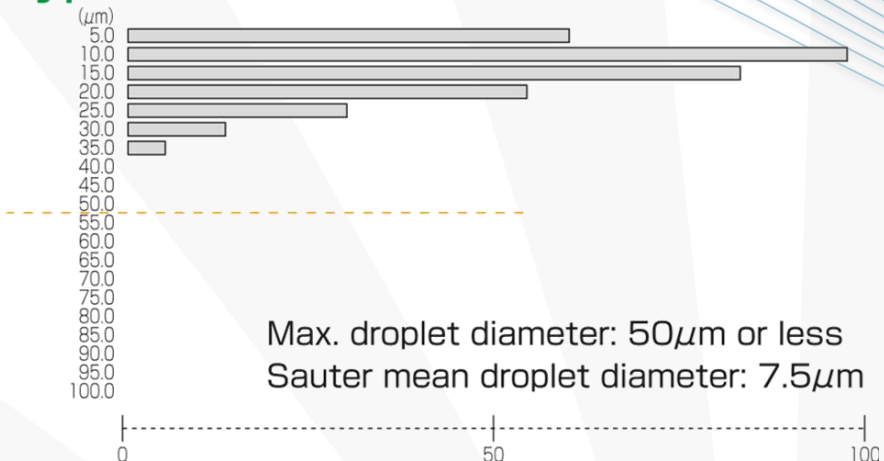
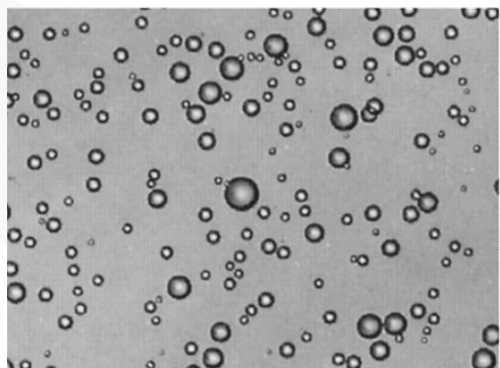


Advantage:

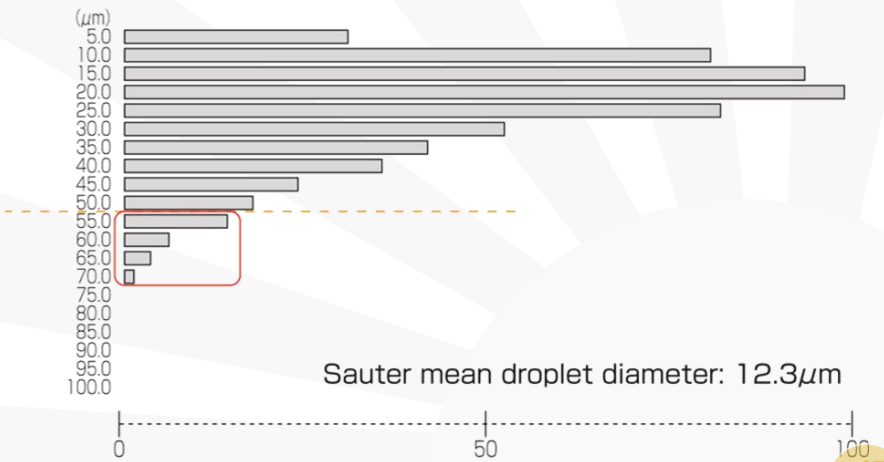
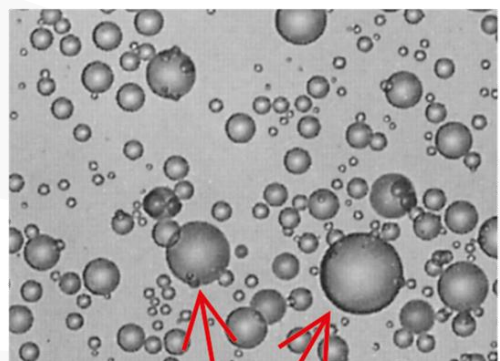
Dry fog → no wetting



AKIMist® "E" 03C type



Conventional pneumatic spray nozzle



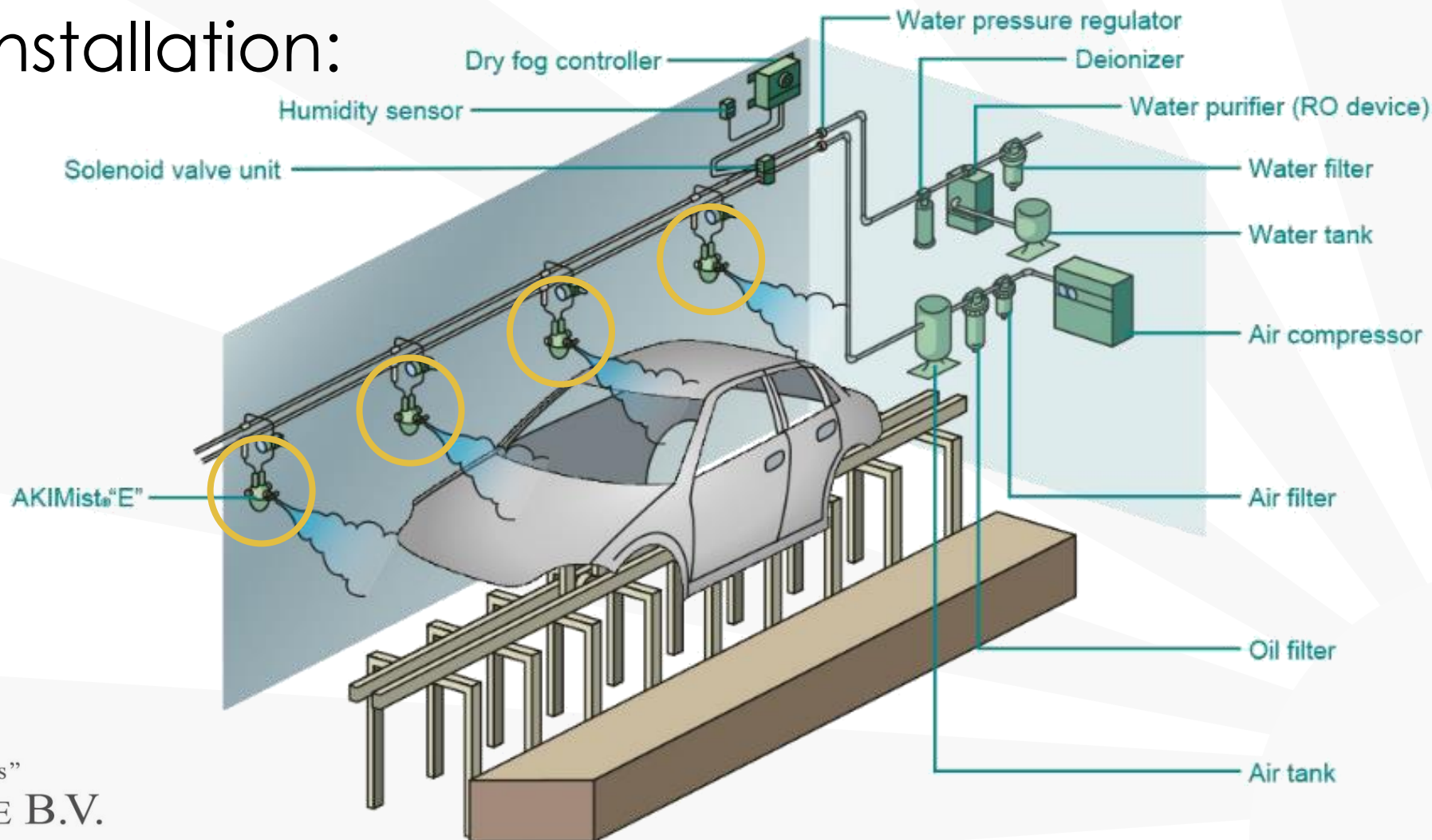
Large droplets



Dust control & humidification: AKIMist® "E"



Installation:



Dust control & humidification: AKIMist® "E"



Benefits:

- Total dust-related defects reduced from 2% to 0.5%
 - Reduction by 40% of dust-related defects on bumpers
- Average number of spots/car reduced from 7 to 1
- Productivity increased by 4%
- Fish-eye defects resolved





Taking the path less traveled



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