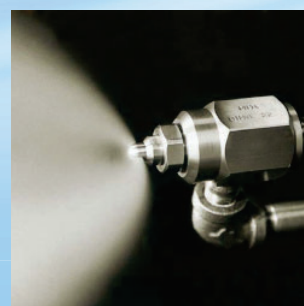
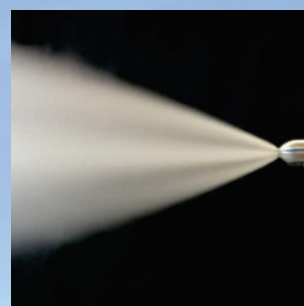
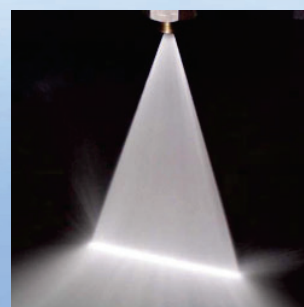




“The Fog Engineers”  
**H. IKEUCHI & CO., LTD.**

 **LINEUP OF  
IKEUCHI'S  
SPRAY NOZZLES**



# IKEUCHI, "The Fog Engineers"

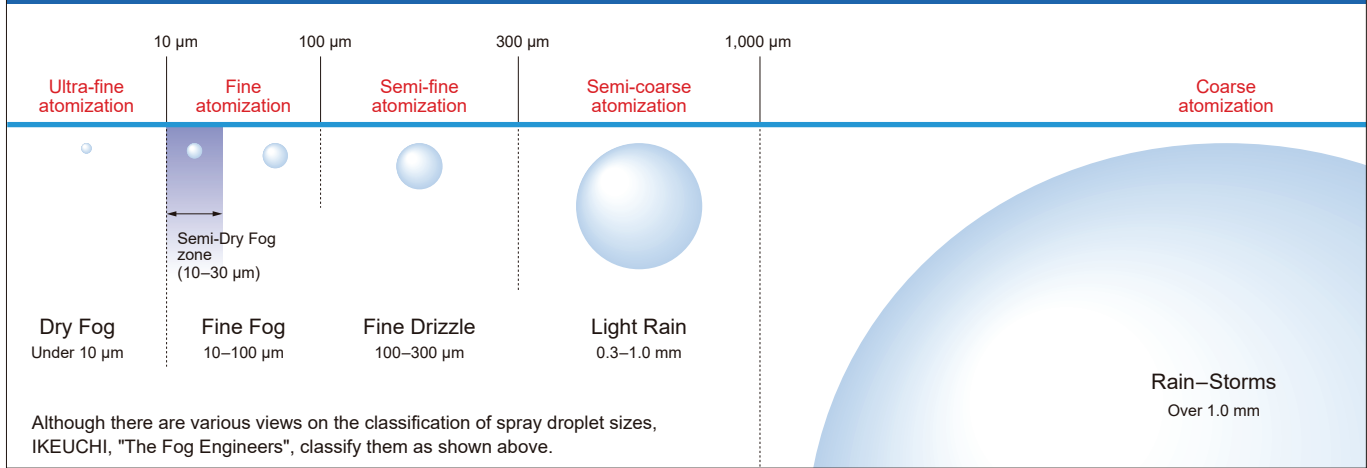
Based on accumulated advanced technology and know-how as the Fog Engineers, IKEUCHI continues to pursue methods to generate and utilize fog to meet the ever more diverse and sophisticated needs of its customers, and to contribute to the development of a greater industrial world.



## Spray Nozzle Precision Guarantee

All IKEUCHI's precision-made hydraulic spray nozzles (except for air nozzles) are guaranteed for spray angle and spray capacity. Each pneumatic spray nozzle series also has a spray capacity inspection standard, and only the nozzles that pass the inspection will be shipped.

## Fog Classification System



## Variety of Spray Nozzles

### Hydraulic Spray Nozzles

Produce atomization using liquid pressure

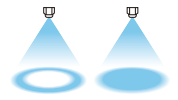
#### Flat Spray Nozzles

Provide a flat fan spray pattern with mountain-shaped or even distribution. Ideal for (high-pressure) cleaning and spraying.



#### Cone Spray Nozzles

Provide a hollow cone or full cone spray pattern (or square spray pattern). Suitable for gas cleaning, steel plate cooling, humidifying, etc.



#### Solid Stream Jet Nozzles

Solid stream spray with highest spray impact. Ideal for powerful cleaning.



#### Special Purpose Nozzles

Include slit laminar nozzles, air nozzles, ejector nozzles, and more.



### Pneumatic Spray Nozzles

Produce atomization using air and liquid pressures

#### Fine Fog Spray Nozzles

Widely used pneumatic nozzles for gas cooling, moisture control, precision cleaning, etc. Mean droplet diameter: 10–100 µm (fine atomization)

#### Semi-Fine, Semi-Coarse Fog Spray Nozzles

Ideal for precision cooling in the steel industry, and for precision cleaning in the electronics industry. Mean droplet diameter: 100 µm or more (semi-fine to semi-coarse atomization)

#### Clog-resistant Spray Nozzles

Designed specially for spraying viscous liquid.

#### Blower-Air Driven, Ultra-Low Pressure Spray Nozzles

Utilize blower air instead of compressed air for atomizing to save operating costs.

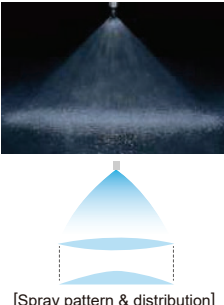




#### Steam-Driven Spray Nozzles

Innovative pneumatic nozzles using steam instead of compressed air for atomizing.

# HYDRAULIC SPRAY NOZZLES—FLAT SPRAY

[Symbol key] ● : Features ■ : Main applications




## Standard Flat Spray Nozzles

 <p>[Spray pattern &amp; distribution]</p>	 <p><b>One-piece structure</b> <b>VP/VVP series</b></p>	<ul style="list-style-type: none"> <li>● Flat spray pattern with a mountain-shaped distribution. Tapered edges overlap to provide uniform spray distribution in multi-nozzle arrangements.</li> </ul>	 <p><b>Coin-shaped</b> <b>CVVP series</b></p>	<ul style="list-style-type: none"> <li>● So thin that nozzle alignment in tight spaces is easy.</li> <li>■ Cleaning and cooling.</li> </ul>
	 <p><b>3-piece structure</b> <b>V/VV series</b></p>	<ul style="list-style-type: none"> <li>■ Cleaning, spraying, cooling, etc.</li> <li>For polishing, available in UPE material (<b>UVVP series</b>).</li> </ul>	 <p><b>Quick detachable</b> <b>INVV series</b> <b>INVV-SS/INV series</b></p>	<ul style="list-style-type: none"> <li>● Quick-detachable design helps to reduce maintenance time.</li> <li>■ Applications that require accurate nozzle positioning. Cleaning, etching, etc.</li> </ul>


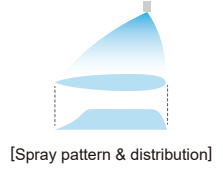
## Even Flat Spray Nozzles

 <p>[Spray pattern &amp; distribution]</p>	 <p><b>One-piece structure</b> <b>VEP series</b></p>	<ul style="list-style-type: none"> <li>● Flat spray pattern with uniform distribution across the pattern area. Even spray impact across the entire spray area.</li> </ul>	 <p><b>High-pressure cleaning</b> <b>VNP series</b></p>	<ul style="list-style-type: none"> <li>● Flat spray with uniform distribution.</li> <li>■ High pressure cleaning (for cars, containers, tanks).</li> </ul>
	 <p><b>3-piece structure</b> <b>VE series</b></p>	<ul style="list-style-type: none"> <li>■ Cleaning, cooling and spraying.</li> </ul>	 <p><b>Descaling nozzles</b> <b>DSP series</b></p>	<ul style="list-style-type: none"> <li>● Powerful cleaning and descaling nozzle with a thin flat spray like a razor blade.</li> </ul>
			 <p><b>Quick detachable</b> <b>INVE series</b></p>	<ul style="list-style-type: none"> <li>● Quick-detachable design helps to reduce maintenance time. Features a ceramic orifice.</li> <li>■ Cleaning, cooling and spraying.</li> </ul>






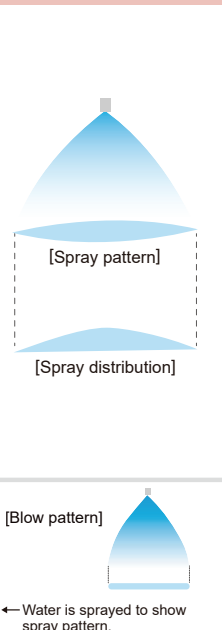
## Wide-angle Flat Spray Nozzles

	 <p><b>Wide-angle spray</b> <b>YYP series</b></p>	<ul style="list-style-type: none"> <li>● Wide-angle flat spray nozzle to use at low pressure. Minimal clogging among our flat spray nozzles with the same flow rate.</li> <li>■ Cleaning, foam breaking, water screen applications.</li> </ul>
	 <p><b>Wide-angle, ultra-low pressure</b> <b>LYYP series</b></p>	<ul style="list-style-type: none"> <li>● Wide-angle flat spray nozzle to use at ultra-low pressure of 0.015 MPa. Low spray impact creating a bubble-free spray surface.</li> <li>■ Spraying developing solution in semi-conductor manufacturing processes.</li> </ul>

## Off-center Even Flat Spray Nozzles

	 <p><b>Off-center spray</b> <b>OVVEP series</b> <b>INOVE series</b></p>	<ul style="list-style-type: none"> <li>● The diagonal spray prevents accumulation of spray fluid in a multiple nozzle arrangement. No need for oblique installation as it is already angled.</li> <li>■ Steel plate cooling, water rinsing after acid washing.</li> </ul>
 <p>[Spray pattern &amp; distribution]</p>		

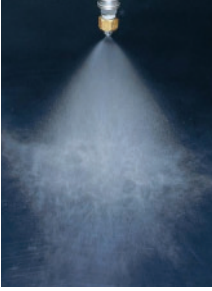

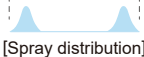








## Special Flat Spray Nozzles

	 <p><b>Self-cleaning</b> <b>MOMOJet series</b></p>	<ul style="list-style-type: none"> <li>● Nozzle tip purges foreign particles by reducing the liquid pressure. The straight-through orifice makes this nozzle suitable for multi-nozzle set-up.</li> <li>■ Cleaning with circulated water, cooling, foam breaking, and cleaning wire and felt parts of paper making machines.</li> <li>For solid stream spray, <b>MOMOJet "C"</b> series is available.</li> </ul>
	 <p><b>Universal-jointed</b> <b>UT+VP series</b></p>	<ul style="list-style-type: none"> <li>● Includes an integrated universal ball joint to adjust the spray direction over a range of 40 degrees as desired.</li> <li>■ Cleaning, spraying, etc.</li> <li>For solid stream spray, <b>UT+CP</b> series is available.</li> </ul>
	 <p><b>Quick installation</b> <b>QB series</b></p>	<ul style="list-style-type: none"> <li>● Easy to install. Just drill a hole into the pipe and insert the nozzle. Spray direction is adjustable within 50 degrees as desired. Quick-detachable design helps to reduce maintenance time significantly.</li> <li>■ Pre-treatment for painting, water cleaning, etc.</li> </ul>
	 <p><b>Air &amp; steam spraying</b> <b>VZ series</b></p>	<ul style="list-style-type: none"> <li>● Produces a flat spray pattern of air or steam. Air flow volume is adjustable by changing the nozzle tip.</li> <li>■ Cleaning, dust suppression, drying, air curtain, humidification, moisture control, etc.</li> </ul>
	 <p>[Spray pattern] [Spray distribution] [Blow pattern] ← Water is sprayed to show spray pattern.</p>	


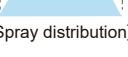








# HYDRAULIC SPRAY NOZZLES—CONE SPRAY

[Symbol key] ●: Features ■: Main applications

## Hollow Cone Spray Nozzles

	 <p>[Spray pattern]</p>  <p>[Spray distribution]</p>	 <p><b>Fine fog, ultra-low flow rate</b> <b>KB</b> series</p> <ul style="list-style-type: none"> <li>● Finest atomization among our hydraulic nozzles. Ceramic parts provide high wear resistance.</li> <li>■ Humidifying, cooling, etc.</li> </ul>	 <p><b>Fine fog, ultra-low flow rate</b> <b>KBN</b> series</p> <ul style="list-style-type: none"> <li>● Finest atomization among our hydraulic nozzles. Plastic nozzle with alumina-ceramic orifice.</li> <li>■ Cooling, humidifying, dust suppression, etc.</li> </ul>
		 <p><b>Semi-fine fog, low flow rate</b> <b>K</b> series</p> <ul style="list-style-type: none"> <li>● Ceramic orifice and closer provide excellent wear resistance.</li> <li>■ Humidifying, cooling, spraying, etc.</li> </ul>	 <p><b>Semi-fine fog, low flow rate</b> <b>KKBP</b> series</p> <ul style="list-style-type: none"> <li>● Large free passage diameter minimizes clogging. Easy maintenance with detachable whirler.</li> <li>■ Humidifying, cooling, snow making, etc.</li> </ul>
		 <p><b>Low flow rate</b> <b>KD</b> series</p> <ul style="list-style-type: none"> <li>● Combines compact design and semi-fine atomization capability. Ceramic parts provide high wear resistance.</li> <li>■ Cooling, spraying, etc.</li> </ul>	 <p><b>Alumina ceramic</b> <b>AP-AL92</b> series</p> <ul style="list-style-type: none"> <li>● Highly wear-resistant alumina ceramic nozzle with a stainless steel socket.</li> <li>■ Cooling, cleaning, etc.</li> </ul>
		 <p><b>Medium capacity</b> <b>AAP</b> series</p> <ul style="list-style-type: none"> <li>● Stable spray pattern at both low and high pressure. No-whirler design minimizes clogging.</li> <li>■ Cleaning, cooling, etc.</li> </ul>	 <p><b>Large capacity</b> <b>TAA</b> series</p> <ul style="list-style-type: none"> <li>● Stable spray pattern even at low pressure. Made highly wear-resistant silicon carbide.</li> <li>■ Spraying in absorber of gas desulfurization equipment, slurry spraying, etc.</li> </ul>





## Full Cone Spray Nozzles

	 <p>[Spray pattern]</p>  <p>[Spray distribution]</p>	 <p><b>Standard type</b> <b>JJXP</b> series</p> <ul style="list-style-type: none"> <li>● Spray capacity ranges from small to medium. X-shaped whirler provides a large free passage, minimizing clogging. Made of stainless steel or PVDF.</li> <li>■ Cleaning, cooling, spraying, etc.</li> </ul>	 <p><b>Quick detachable</b> <b>INJXX(-Y)</b> series</p> <ul style="list-style-type: none"> <li>● Quick-detachable design helps to reduce maintenance time. Made of chemical and heat resistant plastic.</li> <li>■ Etching, cleaning, etc.</li> </ul>
		 <p><b>Low flow rate</b> <b>J</b> series</p> <ul style="list-style-type: none"> <li>● Lowest flow rate among our full cone spray nozzles. Ceramic parts provide high wear resistance.</li> <li>■ Spraying, cleaning, cooling, etc.</li> </ul>	 <p><b>Low flow rate</b> <b>JJRP</b> series</p> <ul style="list-style-type: none"> <li>● Plastic nozzle with a disc whirler, providing a uniform distribution even at low flow rate. Available in PTFE or PVDF.</li> <li>■ Pure water cleaning, spraying, etc.</li> </ul>
		 <p><b>Ceramic orifice &amp; whirler</b> <b>JUP</b> series</p> <ul style="list-style-type: none"> <li>● Ceramic disc whirler and ceramic orifice provide excellent wear resistance.</li> <li>■ Cleaning, cooling, spraying, etc.</li> </ul>	 <p><b>Narrow-angle spray</b> <b>NJJP</b> series</p> <ul style="list-style-type: none"> <li>● No whirler, minimal clogging. Unique design to produce a narrow-angle full cone spray pattern.</li> <li>■ Cleaning, cooling, etc.</li> </ul>
		 <p><b>Alumina ceramic</b> <b>JUXP-AL92</b> series</p> <ul style="list-style-type: none"> <li>● High wear-resistant alumina ceramic nozzle with a stainless steel socket.</li> <li>■ Spraying in absorber of gas desulfurization equipment, slurry spraying, etc.</li> </ul>	 <p><b>Clog-resistant</b> <b>AJP</b> series</p> <ul style="list-style-type: none"> <li>● No-whirler design with a large free passage diameter minimizes clogging. Available in stainless steel, PPS, or alumina ceramic.</li> <li>■ Cleaning, cooling, and other applications where clogging is a concern.</li> </ul>
		 <p><b>Large capacity</b> <b>TJXX</b> series</p> <ul style="list-style-type: none"> <li>● Large spray capacity. Flanged connection.</li> <li>■ Cooling, reacting, spraying, etc.</li> </ul>	 <p><b>Wide-angle spray</b> <b>BBXP</b> series</p> <ul style="list-style-type: none"> <li>● The 120° spray angle provides a larger spray coverage.</li> <li>■ Cleaning, cooling, fire extinguishing, etc.</li> </ul>

## Square Spray Nozzles

	 <p><b>Square spray</b> <b>SSXP</b> series</p>
 <p>[Spray pattern &amp; distribution]</p>	<ul style="list-style-type: none"> <li>● Square full cone spray pattern with uniform distribution leaves no gaps in multi-nozzle arrangement. Wide spray angle of 90–100° provides large spray coverage.</li> <li>■ Cleaning, cooling, spraying, etc.</li> </ul>

## Special Full Cone Spray Nozzles

	 <p><b>Seven-head, fine fog</b> <b>7KB</b> series</p>	<ul style="list-style-type: none"> <li>● Seven KB hollow cone spray nozzles with a compact adaptor header produce large volume of fine atomization.</li> <li>■ Flue gas cooling/cleaning, moisture control, humidification, etc.</li> </ul>
 <p>[Spray pattern &amp; distribution]</p>	 <p><b>Seven-head, all metal</b> <b>7JJXP</b> series</p>	<ul style="list-style-type: none"> <li>● Seven JJXP full cone spray nozzles with a compact adaptor. Mean spray droplet diameter is about half the size of other single-head full cone spray nozzles with the same spray capacity.</li> <li>■ Flue gas cooling/cleaning, dust suppression, etc.</li> </ul>

# HYDRAULIC SPRAY NOZZLES—SOLID STREAM SPRAY

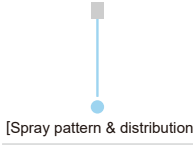
[Symbol key] ●: Features ■: Main applications

## Solid Stream Spray Nozzles



**Standard type**  
**CP/CCP**  
series

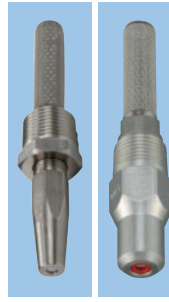
- Highest spray impact solid stream jet having a large flow as compared to other nozzles having the same orifice diameters.
- High pressure cleaning.



**Convex round inlet**  
**CRP/CCRP**  
series

- Designed for minimal clogging. The convex round inlet prevents floating particles from flowing into the nozzle, thereby reducing clogging.
- Cleaning in paper & pulp making process.

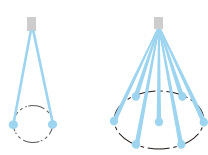
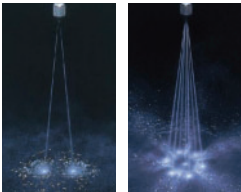
[Spray pattern & distribution]



**Trimming nozzles**  
**CM-FB/2CM-FB**  
series  
**CM/CTM**  
series  
**CMP-T**  
series

- Extra fine solid stream with high impact cutting force. Wear-resistant nozzle orifice made of ceramic, alumina ceramic, or tungsten carbide.
- Paper trimming, cleaning of precision machine parts, food cutting, etc.

## Multi-orifice Solid Stream Spray Nozzles



[Spray pattern & distribution]



**Multi-orifice solid stream**  
**2CP/2CCP**  
series  
**7CP/7CCP**  
series

- Multiple solid streams with high impact force. 2-orifice and 7-orifice nozzles are available. Compact design.
- Bottle washing, cleaning dandy rolls and returnable containers, etc.

## Special Solid Stream Spray Nozzles



**ON/OFF spray control**  
**SO-CM**  
series

- Spray ON/OFF can be regulated by turning the pilot air ON/OFF. Anti-drip design.
- Trimming, cutting, marking, etc.

For flat spray, **SO-V** series is available.



**Pulse spraying with solenoid control**  
**SD-CC**  
series

- Enables intermittent spray, electrically turning on/off with intervals of min. 0.05 sec/shot and 0.05 cc/shot.
- Micro-volume coating, etc.

For flat spray, **SD-VV/SD-V** series are available.



**Self-propped pipe cleaning**  
**RSP**  
series  
**RSP-R**  
series

- Cleans the inside of pipes and tubes, moving by spraying high-impact solid stream jets in different directions as driving force.
- Cleaning inside of pipes/drains/tubes, removing scale and rust.

Right: Rotating type RSP-R

## SPECIAL PURPOSE NOZZLES / RELATED PRODUCTS

### Air Nozzles

**TAIFUJet®** series



- Takes in surrounding air, boosting the volume of powerful air flow.

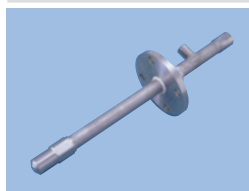
### Special Purpose Nozzles

#### Slit laminar nozzles



- Slit nozzles with thin laminar flow of water or air. Water is sprayed in the above to better show the spray pattern.

#### SPILLBACK nozzles



- Spray capacity is variable without changing spray pressure. Available in a variety of types.

#### Tank cleaning nozzles



- Compact rotating nozzle. Rotates by cleaning liquid force only. Ideal for tank and container cleaning.

#### Ejector nozzles



- **EJX** series spouts out 3–4 times the supplied amount. Ideal for solution agitation.

## Nozzle-related Products / Accessories

Spray header **BRASIKan** series



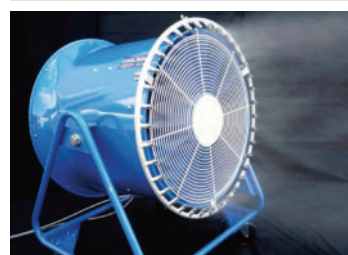
- Rotated by the handwheel, the brushes inside the header pipe clear the clog.

**ARS Filter**



- Auto reverse self-cleaning by powerful jet spraying. Water saving and minimal maintenance.

Mist fan **COOLJetter**



- Combined unit of a fan and nozzles that delivers Semi-Dry Fog over a broad area using fan wind.

**Universal joints**

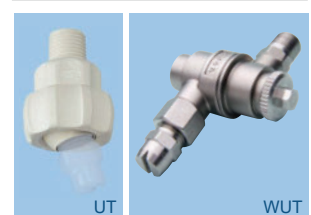


Photo of adaptor with a spray nozzle

- Universal joint adaptors to adjust spray direction.

# PNEUMATIC SPRAY NOZZLES

[Symbol key] ● : Features □ : Main applications

## Fine Fog Spray Nozzles



Photo of BIM series

### Low flow rate

● **BIM** series  
● **CBIM** series  
● **SCBIM** series

- Fine atomization with mean droplet diameters of 20–100 μm. Unique, minimal-clogging design. Available in flat fan spray, full cone spray, or hollow cone spray pattern.

- Spraying, cooling, moisture control, washing, etc.



### Dry Fog humidifier **AKIMist® "E"**

- Compact, high efficiency humidifier that produces a large volume of Dry Fog (non-wetting fog). Energy-saving design.



### Large capacity **GSIM II** series

- Large spray capacity, low air-water ratio. Simple structure, easy maintenance.
- Flue gas cooling in waste incineration facilities.



### Medium capacity **AKIJet®** series

- Atomized droplets are impinged against each other at optimum condition, resulting in a uniform distribution of fine droplet sizes.
- Moisture control, combustion, cooling.

## Semi-Fine, Semi-Coarse Fog Spray Nozzles

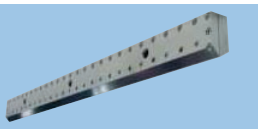


### High impact, flat spray **VVEA** series

- Thin and sharp spray pattern with high impact. Stable spray angle over large turn-down ratio.
- Precision cleaning, etc.



**INVVEA** Header with quick-detachable nozzles



### Slit nozzles **PSN** series

- Pneumatic slit nozzles providing uniform spray in the total width. Achieve higher spray impact by installing closer to the object.
- Glass substrate cleaning, etc.



### Flat spray **DOVEA** series

- Secondary cooling nozzles developed to satisfy crucial requirements for spray nozzles in continuous casting processes in steel making. Minimal variation in spray angle, spray distribution and droplet size over a large turn-down ratio. A large free passage diameter. **DOVEA** series for even flat spray pattern, **DDA** series for thick even flat spray pattern, and **JJA** series for full cone spray pattern.



### Thick flat spray **DDA** series



### Full cone spray **JJA** series

- Gas cooling, steel plate cooling, waste water combustion, etc.

## Clog-resistant Spray Nozzles

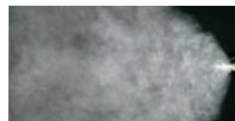


### Full cone spray **SETOJet** series Flat spray **SETOV** series

- Pneumatic spray nozzles specially designed for spraying viscous liquid. Clog-resistant design. External mixing type that air and liquid are mixed outside nozzle for atomization.
- Spraying viscous liquid (oil, lubricant, etc.) or slurry. Solenoid-activated type (**SETO-SD** series) is also available.



Photo of SETOJet series

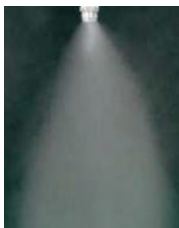


### Wide-angle flat spray **YYA** series

- Combines "clog-resistant" and "wide spray angle" features. Capable of spraying viscous liquid up to approx. 300 cP. Compact design.
- Spraying viscous liquid (oil, honey, etc.)



## Blower-Air Driven, Ultra-Low Pressure Spray Nozzles



### Fine fog, flat spray **BAVV** series

- Flat spray pattern, fine atomization with mean droplet diameter of 40 μm or more. Saves energy using blowers with low operating costs. Large free passage diameter.
- Steel plate cooling, cleaning, etc.



### Semi-fine fog **LSIM** series

- Semi-fine atomization by applying blower air pressure. Low operating costs by using blower air for atomizing.
- Gas cooling, etc.



## Steam-Driven Spray Nozzles



### Steam-driven **JOKIJet** series

- Atomization by steam instead of compressed air. Drastic saving on operating costs.
- Gas cooling, moisture control, etc.

# SPRAY NOZZLE SYSTEMS

## Cooling Systems

Cooling system **COOLJetter Dome**



- Cooling system with COOLJetter, providing effective and low-cost cooling for large spaces.

Industrial cooling system



- Industrial cooling solution for solid and gas.

**LYOHM System** for outdoor cooling



- Energy-saving, outdoor cooling system using Semi-Dry Fog reduces temperatures with evaporative cooling without wetting passersby.

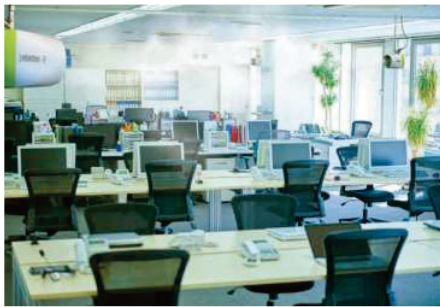
## Humidification Systems

Hydraulic humidification system **AirULM**



- Humidifies large spaces with low operating costs. Air compressor is not required.

Office humidification system **AU-KIT**



- Humidification system for offices and other large indoor spaces, easy to use with tap water and a power source.

Industrial humidification system **AirAKI**




- The world's first humidification system that guarantees the target humidity using the highest quality Dry Fog.

## Fog Landscape System (Creating Artificial Sea of Clouds)

- Fog system that uses special nozzles developed for creating artificial sea of clouds for landscape purposes.





Digital catalogs are available on our website.  IKEUCHI digital catalog

Or scan the 2D code below to access each of our e-catalogs.



Dry Fog Humidifiers  
AKIMist "E"



Hydraulic Spray Nozzles



Pneumatic Spray Nozzles



Air Nozzles



Tank Cleaning Nozzles



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



ISO9001: 2015 certified  
(H. IKEUCHI & CO., LTD., Japan only)



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