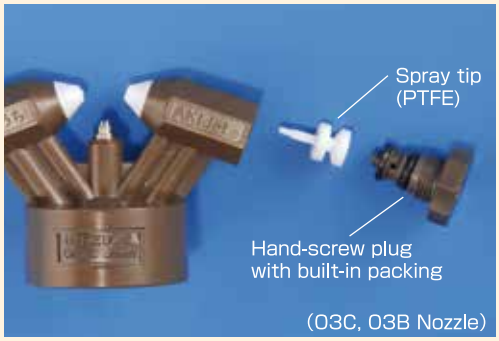
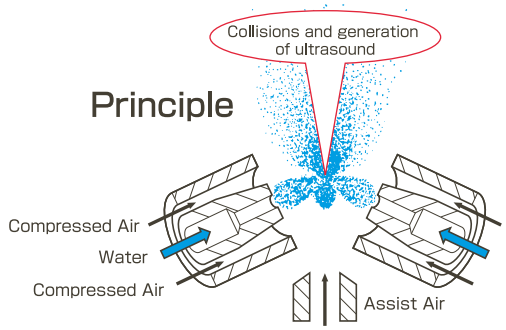
Features

- Quality Fog reaches over four meters horizontally, providing effective humidification. (*1)
- Up to four nozzles can be mounted per body.
- Compact water tank keeps free from bacteria.
- Automatic humidity control is available with timer or humidity controller.

(*1) Spray length depends on the surrounding air temperature and humidity conditions.





High quality, silky Dry Fog Nozzle type 03C

Sauter mean droplet diameter*: 7.5 μm *measured by a laser analyzer

Spray volume (per nozzle) : 2.4 ℓ/hr at 0.3 MPa (air pressure)

03C type with clog-resistant spray tip (PTFE) produces non-wetting Dry Fog (smoke-like ultrafine fog) of uniform quality.
Suitable for humidification without wetting your machines and products even with a room of limited space.

■ 03C Nozzle Performance ■ (per nozzle)

Air Pressure in MPa (psi)	Spray Volume in ℓ/hr (GPH)	Air Consumption in ℓ/min, Normal (SCFM)
0.2 (29)	1.3 (0.34)	22 (0.82)
0.3 (44)	2.4 (0.63)	29 (1.08)
0.4 (58)	3.1 (0.82)	36 (1.34)
0.5 (73)	3.6 (0.95)	43 (1.60)

Note: Use under the air pressure of between 0.2 and 0.5 MPa (29 and 73 psi).

■ Specifications ■ (per body)

Model No.	Number of Nozzles	at air pressure of 0.3 MPa (44 psi)	
		Spray Volume in ℓ/hr (GPH)	Air Consumption in ℓ/min, Normal (SCFM)
AE-1(03C)	1	2.4 (0.63)	29 (1.08)
AE-2(03C)	2	4.8 (1.27)	58 (2.16)
AE-3(03C)	3	7.2 (1.90)	87 (3.24)
AE-4(03C)	4	9.6 (2.54)	116 (4.32)

One 03C nozzle should be good for spaces of 100 m^3 (3,500 ft^3), though it varies depending on various conditions.

Large volume fog Nozzle type 04E

Sauter mean droplet diameter*: 10 μm
*measured by a laser analyzer

Spray volume: 3.0 ℓ/hr at 0.3 MPa (air pressure)
(per nozzle)

04E nozzle type: Scratch-resistant spray tip, made of metal

■ 04E Nozzle Performance ■ (per nozzle)

Air Pressure in MPa (psi)	Spray Volume in ℓ/hr (GPH)	Air Consumption in ℓ/min, Normal (SCFM)
0.2 (29)	1.9 (0.50)	27 (1.00)
0.3 (44)	3.0 (0.79)	36 (1.34)
0.4 (58)	3.8 (1.00)	45 (1.67)
0.5 (73)	4.5 (1.19)	54 (2.00)

Note: Use under the air pressure of between 0.2 and 0.5 MPa (29 and 73 psi).

■ Specifications ■ (per body)

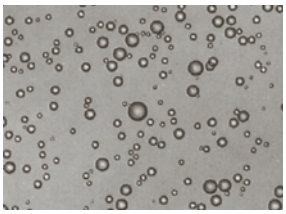
Model No.	Number of Nozzles	at air pressure of 0.3 MPa (44 psi)	
		Spray Volume in ℓ/hr (GPH)	Air Consumption in ℓ/min, Normal (SCFM)
AE-1(04E)	1	3.0 (0.79)	36 (1.34)
AE-2(04E)	2	6.0 (1.58)	72 (2.67)
AE-3(04E)	3	9.0 (2.38)	108 (4.00)
AE-4(04E)	4	12.0 (3.17)	144 (5.34)

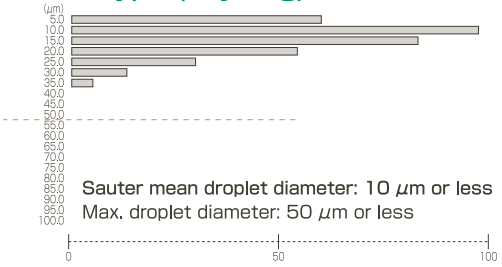
03B nozzle type with PTFE spray tip is also available. For details please inquire with us.

Spray Droplet Size by various humidifiers

The followings are pictures of droplets collected by Immersion Sampling and droplet diameter distribution measured by the laser analyzer.
(The vertical axis is for droplet diameter, and the horizontal for the proportional number of droplets.)

AKIMist®"E" 03C nozzle type (Dry Fog)





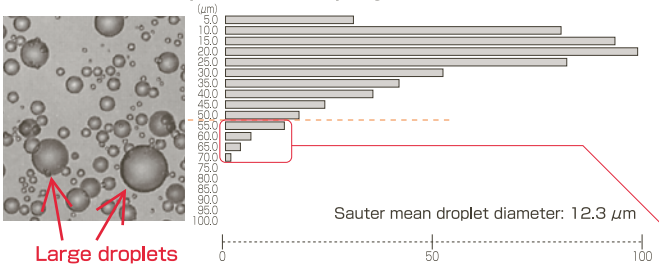
Sauter mean droplet diameter: 10 μm or less
Max. droplet diameter: 50 μm or less

NON-WETTING DRY FOG

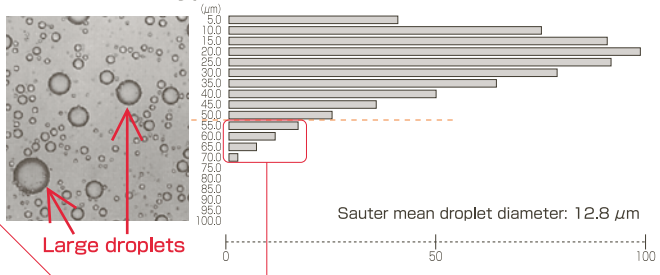
Uniform fog, having no large particles, humidifies target spaces effectively without getting anything wet.

Other kinds of humidifiers

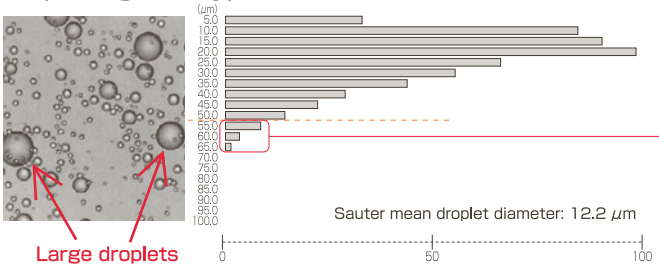
●Conventional pneumatic spray nozzle



●Ultrasonic type



●Spinning disk type

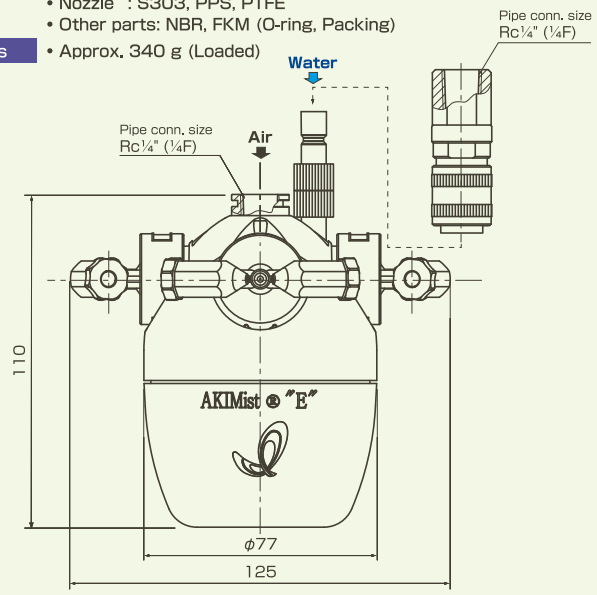


Even though the mean droplet diameter is small, spray distributions including large droplets will eventually cause wetting.

AKIMist®"E" Dimensions

Materials
- Body : PP, S303 (Stainless steel 303)
- Nozzle : S303, PPS, PTFE
- Other parts: NBR, FKM (O-ring, Packing)

Mass
- Approx. 340 g (Loaded)



Note:
- Before disassembling, close the water valve.
- As main parts are made of plastic, handle AKIMist® "E" with care. (For details, see Instruction Manual.)
- "F" in pipe connection size denotes female thread.

Stop plugs are enclosed to reduce the number of nozzles when needed.

Applications

- ■ Humidification : Textile factory, Mushroom nursery, Poultry incubation, Fermentation room, Cold storage for food
- ■ Moisture control : Textile, Paper, Plywood, etc.
- ■ Preventing dust adhesion: Plastic molding, Bag-making, Painting line, etc.
- ■ Dust suppression : Painting line, Foundry, Ceramic fabrication, etc.
- ■ Curing : Concrete, etc.
- ■ ESD prevention/Static electricity control: Printing, Textile, Painting line, Plastic film, Plastic molding, Assembly line of electronics, Paper, etc.