

Eliminate Odor in garbage pits with Dry Fog & Fine Fog!

Finer fog provides more effective deodorization with a smaller quantity of deodorant.

Fog spraying eliminates odor in...

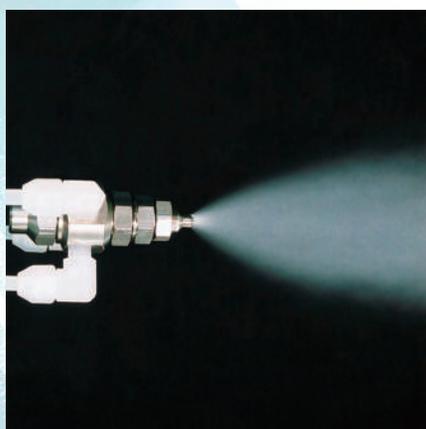
- ▶ Garbage pits of waste incineration plants
- ▶ Reservoirs in sewerage treatment plants
- ▶ Exhaust ducts

Effective odor-elimination using "Dry Fog", with no wetting (Sauter mean droplet diameter: 7.5µm)



AKIMist® "E" Dry Fog Humidifiers

Spray patterns available are flat, hollow cone and full cone spray (Sauter mean droplet diameter*: 20-100µm)



BIM series

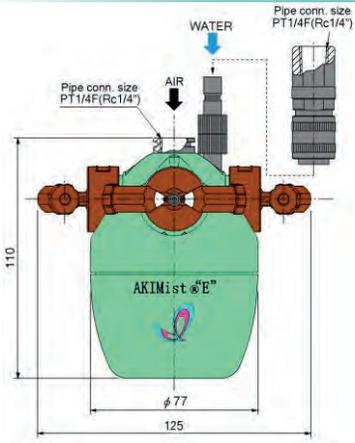
Fine fog spray driven by water pump pressure only (Sauter mean droplet diameter*: 35-60µm)



KBN series

*Sauter mean droplet diameter measured by Laser Doppler Method

AKIMist® “E” (Dry Fog humidifier)



Material

| | |
|---------|-----------------|
| Body | PP, S303 |
| Nozzle | PPS, OPFW, S303 |
| O-ring | NBR, FKM |
| Packing | FKM |

S303 = Stainless steel 303

Mass: 340g (Loaded)



Spray volume per nozzle

| Air pressure (MPa) | Spray volume (L/hr) | Air consumption (L/min, Normal) |
|--------------------|---------------------|---------------------------------|
| 0.2 | 1.3 | 22 |
| 0.3 | 2.4 | 29 |
| 0.4 | 3.1 | 36 |
| 0.5 | 3.6 | 43 |

Sauter mean droplet diameter: 7.5µm (measured by Laser Doppler Method)

Up to 4 nozzles can be mounted per body, spraying in 4 directions as in the photo (AE-4)

AE-4 (03C) sprays 9.6l/hr at 0.3MPa air pressure.

BIM series (Fine fog / Small capacity / Pneumatic spray nozzle)



Photo is BIMK series with T-type adaptor

- Unique design greatly minimizes clogging.
- Designed using fewer parts than typical nozzles for easier maintenance and lower price.
- Available in 3 spray patterns, BIMV flat spray, BIMK hollow cone spray and BIMJ full cone spray.

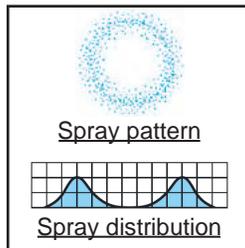
| Spray pattern | Liquid feeding system | Spray angle (°) | Spray capacity (L/hr) | Air consumption (L/min, Normal) | Mean droplet diameter* (µm) |
|-------------------|-----------------------|-----------------|-----------------------|---------------------------------|-----------------------------|
| Flat spray | Liquid pressure | 110, 80, 45 | 1.0~107 | 7~245 | 20~100 |
| | Liquid siphon | 80 | 0.7~4.5 | 15~92 | 20~30 |
| Hollow cone spray | Liquid pressure | 60 | 2.0~107 | 13~245 | 20~100 |
| | Liquid siphon | 60 | 1.4~5.5 | 27~92 | 20~30 |
| Full cone spray | Liquid pressure | 70, 20 | 2.0~107 | 7~245 | 20~100 |

*Sauter mean droplet diameter measured by Laser Doppler Method

KBN series (Extremely Fine fog / Ultra-small capacity / Hollow cone spray)



Photo of KBN80063



- Low cost plastic nozzle with durable ceramic orifice.
- Light weight; 1/6 that of similar metal nozzles.
- Minimal clogging with free passage diameter 1.3-2.6 times bigger than that of conventional nozzles

[KB series, stainless steel body with ceramic orifice, is also available.]

*Sauter mean droplet diameter measured by Immersion Sampling Method

| Spray angle code | Spray capacity code | Spray angle (°) | | | Spray capacity (L/min) | | | | | | | | | Mean droplet diameter* (µm) | Free passage diameter (mm) | Strainer mesh size | Nozzle color | | | |
|------------------|---------------------|-----------------|-------|-------|------------------------|---------|---------|-------|---------|-------|---------|-------|-------|-----------------------------|----------------------------|--------------------|--------------|-----|-----|--------|
| | | 0.5 MPa | 1 MPa | 2 MPa | 0.5 MPa | 0.6 MPa | 0.8 MPa | 1 MPa | 1.3 MPa | 2 MPa | 3.5 MPa | 5 MPa | 7 MPa | | | | | | | |
| 80 | 063 | 50 | 80 | 80 | 1.13 | 1.36 | 1.72 | 2.00 | 2.35 | 2.99 | 4.05 | 4.75 | 5.58 | 35~60 | 0.2 | 200 | Brown | | | |
| | 125 | 60 | 80 | 80 | 2.29 | 2.77 | 3.51 | 4.10 | 4.84 | 6.20 | 8.43 | 9.94 | 11.70 | | | | | 0.3 | 100 | Green |
| | 22 | 65 | 80 | 80 | 3.99 | 4.84 | 6.18 | 7.25 | 8.59 | 11.10 | 15.00 | 18.00 | 21.30 | | | | | 0.4 | 100 | Purple |

How to order

Please inquire or order for a specific nozzle using this coding system.

Example) 1/4M KBN 80125 TPACVW

| | | | | | | | |
|------|-----------------|-----|----|---------------------|-----|---|---|
| 1/4M | (PT) | KBN | 80 | 125 | TPA | CV | W |
| | Thread type | | | Spray capacity code | | Check valve | |
| | ■(PT) ■(NPT) | | | ■063 ■125 ■22 | | CV (with check valve) -- (without check valve) | |

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



“The Fog Engineers”

IKEUCHI EUROPE B.V.

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Merwedeweg 6,
3621 LR Breukelen
The Netherlands

Tel: 0031-20-820-2175

info@ikeuchi.eu

https://www.ikeuchi.eu

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