## **Classification of Spray Droplet Size**

There are many opinions on the classification of spray droplet sizes but IKEUCHI, "The Fog Engineers", have classified them as below.

	10 µm	100	μm	300 µm		1,000	) µm
Ultra-fine atomization	a	Fine atomization	Semi-fine atomization		Semi-coarse atomization		

Dry Fog	Fine Fog	Fine Drizzle	Light Rain
Under 10 µm	10–100 μm	100–300 μm	0.3–1.0 mm

The above classification is based on the spray droplet size (spray droplet diameter) measured by the immersion sampling method.

Measured results differ depending on measuring method. Assuming the mean droplet diameter measured by the immersion sampling method as 1, the correlation of Sauter mean droplet diameters among three measuring method is shown on the right.

Conversion factor for mean droplet diameter

Immersion sampling method	Fraunhofer diffraction method	Laser Doppler method
1	0.45	0.7–0.9