

New Product Miracle Fog [Wet AAA]

Instantaneous Drying Even at a Close Distance

Fog with Ultralow Humidity Feeling Achieved with Our Advanced Spray Technology

The fog generated by this nozzle barely feels wet even when you hold your hand over it for 3 minutes at the distance of 1 meter.

(Experimental conditions at our company laboratory: temperature: 23°C, humidity: 53%)

After more than 14 years of research and development, our company is now promoting “Miracle Fog MINI” (patented in Japan), an air spray nozzle which is a world’s first ultra-precision resin molded nozzle, in many fields such as beauty, medicine and agriculture.

Aiming to further improve our spray technology, our company has successfully researched and developed ultralow humidity fog with an average particle diameter SMD of 2.76 μm and an atomization flow rate of 3.76 ml/min*. We plan to launch Miracle Fog [Wet AAA] in April of this year.

(*Experimental conditions at our company laboratory: temperature: 24°C, humidity 47%, air pressure: 500 kPa, air flow 5.92 NL/min)

Please consider applications in research and commercialization of aeroponics, beauty oil, water with disinfecting function, nebulizer, etc.

Model No. [Wet AAA]

Precision injection molding nozzle

Product specifications

- Material: Polypropylene
- Weight: 1 gram
- Minimum passage size for foreign matters
- Air: Rectangular (0.35 x 0.13 mm)
- Liquid: $\phi 0.25$ mm



Spray performance (spray solution: Purified water)

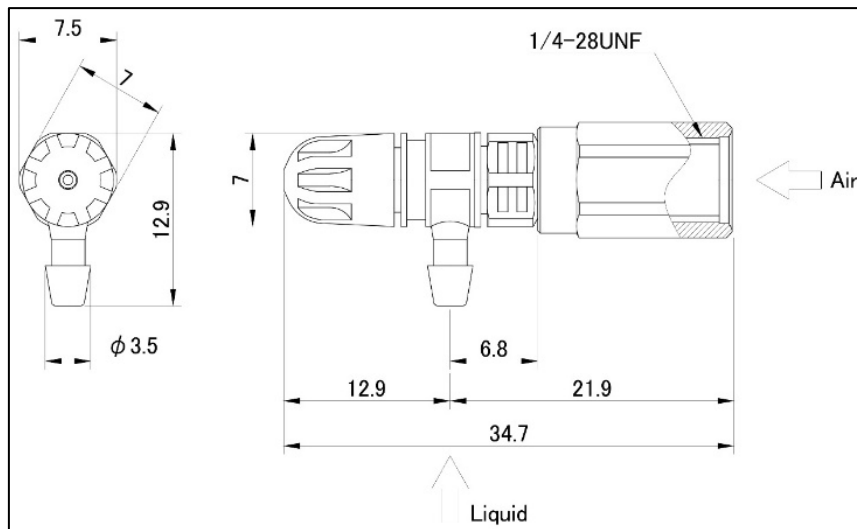
Recommended air pressure range: 30 to 300 kPa

Suction height*1 (mm)	Air pressure (kPa)	Air volume (NL/min)	Flow rate of atomization (ml/min)	Average particle diameter SMD (μm)
100	30	0.9	1.0	20.0
	50	1.3	1.8	16.1
	100	1.9	2.5	9.2
	300	4.0	2.9	3.8
	500	5.92	3.76	2.76

*1 “Suction height” refers to the vertical distance between the water surface and the nozzle, where the liquid surface is located below the nozzle.

The siphon force (suction force) decreases and the spray volume also decreases as the suction height is larger.

Ultra-precision molding air spray nozzle



[Wet AAA] Example of spraying with a set of 4

[Specifications per nozzle]

- Air pressure: 100 kPa
- Flow rate of atomization: 2.5 ml/min
- Average particle diameter: 9.2 μm

