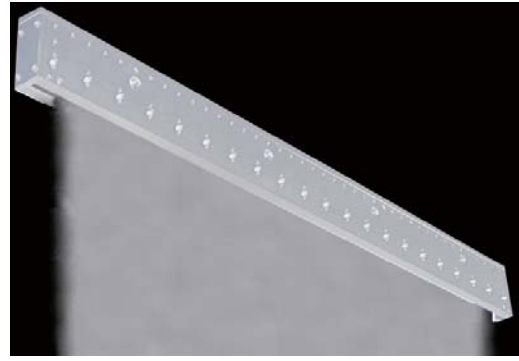
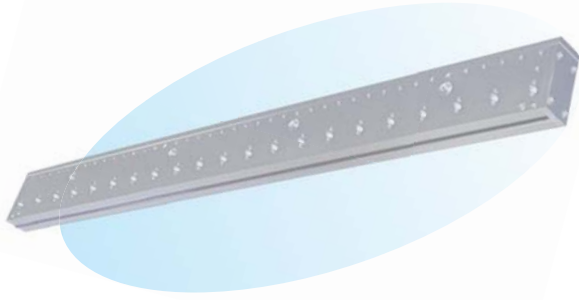


## Knife Jet External mixing type



### ► Features

- Uniform water flow and impact force distributions over spray width.
- Dramatically improved cleaning effect by nozzle proximity.

### ► Applications

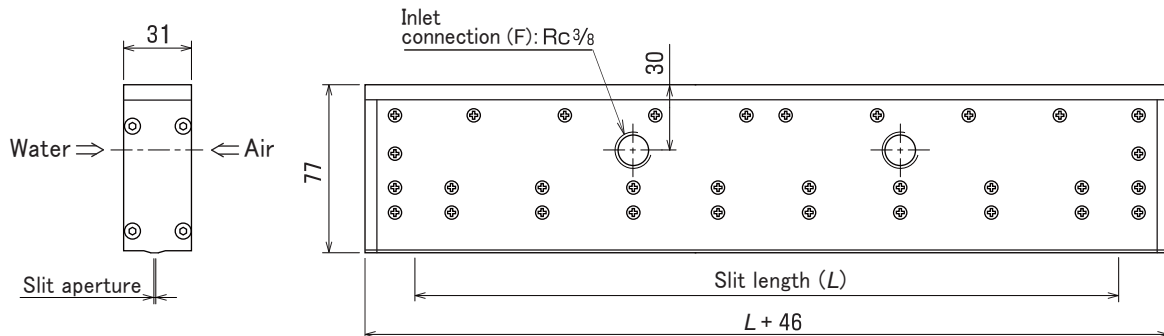
- Mist washing, cooling, coating, surface treatment.
- Deodorization, application of chemicals, etc.

### ► Materials

- 304 Stainless steel
- Aluminum alloy
- Titanium

### Shapes and dimensions

#### ● KJE type



| Slit length<br>L [mm] | Weight [kg] |          |          |
|-----------------------|-------------|----------|----------|
|                       | 304 SS      | Aluminum | Titanium |
| 300                   | 5.5         | 1.9      | 3.2      |
| 500                   | 8.7         | 2.9      | 5.0      |
| 1000                  | 16.7        | 5.6      | 9.6      |

\* NPT thread is also available.

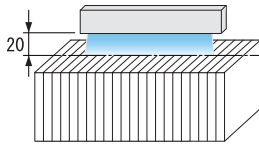
\* Slit length and slit aperture are to be specified by the customer.

#### ● Model and Model Number representing

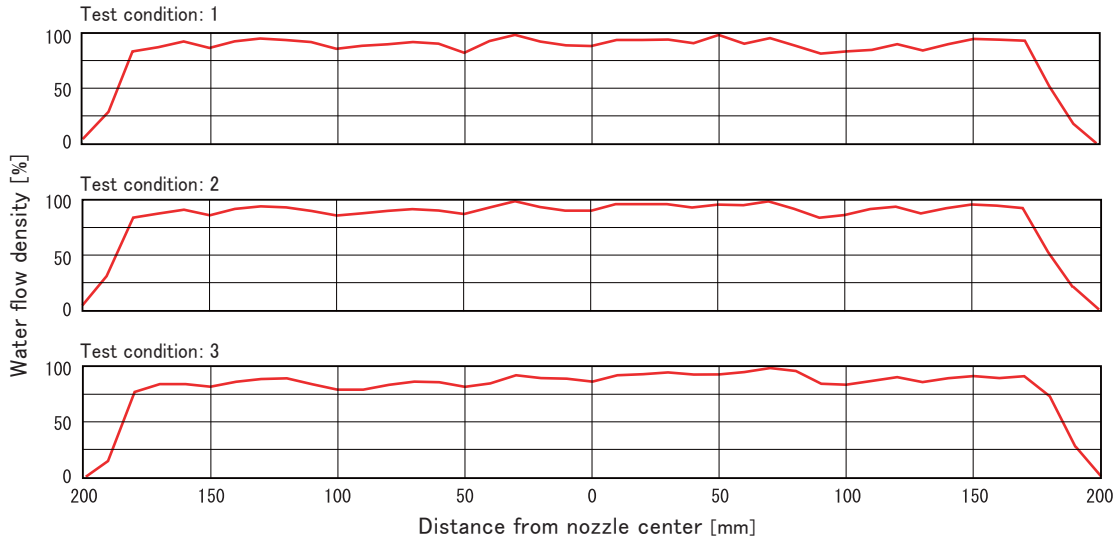
K J E     $\frac{1000L}{\text{Slit length}}$     -     $\frac{0.1}{\text{Slit aperture}}$

Water flow distribution

Nozzle model number KJE 370L - 0.1

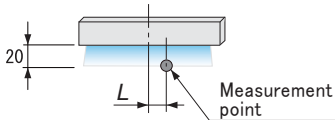


| Test condition | Air pressure [MPa] | Water pressure [MPa] | Air flow rate [m <sup>3</sup> /h(nor)] | Water flow rate [L/min] | Air-water volume ratio |
|----------------|--------------------|----------------------|--|-------------------------|------------------------|
| 1              | 0.095              | 0.056                | 24.0                                   | 8.0                     | 50                     |
| 2              | 0.260              | 0.061                | 48.0                                   | 8.0                     | 100                    |
| 3              | 0.350              | 0.034                | 63.0                                   | 5.25                    | 200                    |



Particle size and particle velocity

Nozzle model number KJE 370L - 0.1



| Measurement point L [mm] | Air-water volume ratio : 50 |                              | Air-water volume ratio : 100 |                              |
|--------------------------|-----------------------------|------------------------------|------------------------------|------------------------------|
|                          | Sauter mean diameter [μm]   | Mean particle velocity [m/s] | Sauter mean diameter [μm]    | Mean particle velocity [m/s] |
| 0                        | 68                          | 14                           | 66                           | 30                           |
| 70                       | 69                          | 16                           | 66                           | 28                           |
| 140                      | 65                          | 16                           | 63                           | 28                           |