FEATURES

- Boosts powerful air flow, taking in surrounding air.
- Designed to have a uniform and efficient air flow.
- Quiet operation producing solid stream of high impact air.
- Available in 11 different sizes covering a blowing width ranging from 200 to 1,200 mm.*
  *Blowing width from 700 mm to 1,200 mm is available in double-entry type.
- Nozzle tips are replaceable for easy maintenance and lower costs.

USAGE EXAMPLES

Edge wiper for steel surface treatment,
Blowing off dust/water under high temperatures

Use in tight spaces
### Single entry type (Connection at one end)

** Specifications **

<table>
<thead>
<tr>
<th>Product code</th>
<th>Effective blowing width (mm)</th>
<th>Pipe conn. size</th>
<th>Number of orifices</th>
<th>Number of nozzle tips</th>
<th>Outer dimensions (mm)</th>
<th>Mass (g)</th>
<th>Air consumption (L/min, Normal)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td>Total length L1</td>
<td>Length of nozzle tips L2</td>
<td></td>
</tr>
<tr>
<td>200-80-010</td>
<td>200</td>
<td>R1</td>
<td>80</td>
<td>2</td>
<td>327</td>
<td>209</td>
<td>950</td>
</tr>
<tr>
<td>300-120-010</td>
<td>300</td>
<td></td>
<td>120</td>
<td>3</td>
<td>431</td>
<td>313</td>
<td>1,300</td>
</tr>
<tr>
<td>400-160-010</td>
<td>400</td>
<td></td>
<td>160</td>
<td>4</td>
<td>536</td>
<td>418</td>
<td>1,600</td>
</tr>
<tr>
<td>500-200-010</td>
<td>500</td>
<td></td>
<td>200</td>
<td>5</td>
<td>640</td>
<td>522</td>
<td>1,900</td>
</tr>
<tr>
<td>600-240-010</td>
<td>600</td>
<td></td>
<td>240</td>
<td>6</td>
<td>745</td>
<td>627</td>
<td>2,200</td>
</tr>
</tbody>
</table>

Note: Spray orifices are designed to be placed off-center from the pipe.

### Double entry type (Connections at both ends)

** Specifications **

<table>
<thead>
<tr>
<th>Product code</th>
<th>Effective blowing width (mm)</th>
<th>Pipe conn. sizes</th>
<th>Number of orifices</th>
<th>Number of nozzle tips</th>
<th>Outer dimensions (mm)</th>
<th>Mass (g)</th>
<th>Air consumption (L/min, Normal)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>R1</td>
<td></td>
<td></td>
<td>Total length L1</td>
<td>Length of nozzle tips L2</td>
<td></td>
</tr>
<tr>
<td>700-280-010</td>
<td>700</td>
<td></td>
<td>280</td>
<td>7</td>
<td>831</td>
<td>731</td>
<td>2,400</td>
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<tr>
<td>800-320-010</td>
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<td>320</td>
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<td>936</td>
<td>836</td>
<td>2,700</td>
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<tr>
<td>900-360-010</td>
<td>900</td>
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<td>360</td>
<td>9</td>
<td>1,040</td>
<td>940</td>
<td>3,000</td>
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<tr>
<td>1000-400-010</td>
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<td>400</td>
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<td>1,145</td>
<td>1,045</td>
<td>3,300</td>
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<tr>
<td>1100-440-010</td>
<td>1,100</td>
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<td>440</td>
<td>11</td>
<td>1,249</td>
<td>1,149</td>
<td>3,500</td>
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<tr>
<td>1200-480-010</td>
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<td>480</td>
<td>12</td>
<td>1,354</td>
<td>1,254</td>
<td>3,800</td>
</tr>
</tbody>
</table>

Note: 1) Spray orifices are designed to be placed off-center from the pipe.

2) To achieve uniform spray impact distribution, make sure to feed air supply from the two inlets, one at each end of the pipe.
OPERATING PRESSURE RANGE
Max. operating pressure: 0.4–0.7 MPa
Max. allowable temperature: 40–80°C
Max. operating pressure changes depending on the air temperature. Blue colored area indicates the operating pressure range. Use the nozzle within the operating range.

BLOWING PATTERN
The blowing patterns with an air velocity of 5 m/s or more are measured.

- Measurement conditions
  Model: 1M TF-PF 300-120-010 PPS+S304
  Blowing distance: 100 mm

BLOWING IMPACT DISTRIBUTION
- Measurement conditions
  Model: 1M TF-PF 300-120-010 PPS+S304
  Blowing distance: 100 mm

HOW TO ORDER
Please order for a specific nozzle using this coding system.

Example) 1M TF-PF 200-80-010 PPS+S304

<table>
<thead>
<tr>
<th>Pipe conn. size(^{\text{a2}})</th>
<th>TF-PF Series</th>
<th>Product code</th>
<th>Material</th>
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</thead>
<tbody>
<tr>
<td>Single entry type 1M</td>
<td>200-80-010</td>
<td>700-280-010</td>
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</tr>
<tr>
<td>Double entry type 2-1M</td>
<td>300-120-010</td>
<td>800-320-010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>400-160-010</td>
<td>900-360-010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>500-200-010</td>
<td>1000-400-010</td>
<td></td>
</tr>
<tr>
<td></td>
<td>600-240-010</td>
<td>1100-440-010</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>1200-480-010</td>
<td></td>
</tr>
</tbody>
</table>

*a2* "M" indicates male thread ("R" of the ISO standard), e.g. 1M = R1.
For a double entry type, the number of inlets (2) is indicated before the pipe connection size.
AIR CONSUMPTION

**Single entry type**
Connection at one end

**Double entry type**
Connections at both ends

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**Air Pressure (MPa) vs. Air Consumption (L/min, Normal)**

- **Single entry type**
  - Blowing width: 200 mm
  - Data points:
    - 0.1 MPa: 1,100 L/min
    - 0.2 MPa: 2,200 L/min
    - 0.3 MPa: 3,300 L/min
    - 0.4 MPa: 4,400 L/min
    - 0.5 MPa: 5,500 L/min
    - 0.6 MPa: 6,600 L/min

- **Double entry type**
  - Blowing width: 600 mm
  - Data points:
    - 0.1 MPa: 3,600 L/min
    - 0.2 MPa: 6,600 L/min
    - 0.3 MPa: 9,600 L/min
    - 0.4 MPa: 12,600 L/min
    - 0.5 MPa: 15,600 L/min
    - 0.6 MPa: 18,600 L/min

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