FJM-WTO Oscillating Fog/Jet Monitor

Description
- A range of manually operated fog/jet, water, and foam monitors with exceptional flow characteristics that optimise throw range.
- Exceptional delivery of water or foam as a jet or as a spray pattern.
- FJM-80 WTO, FJM-100 WTO, and FJM-150 WTO units are self-oscillating with internal water driven turbines.
- A unique design and stainless steel construction add to the relatively low weight of this unit.

Application
FJM-WTO units are designed for fixed mounting for effective application of the wide flow range optimised jet range and spray patterns. The loose flange allows for easy mounting and adjustment for oscillating area sweep.

S Models
The S model comes complete with built-in foam induction.

Features
- Wide flow range
- Adjustable flow
- Compact and balanced design
- Low weight
- Easily manoeuvred due to low friction bearings
- Long throw length
- Adjustable stream pattern
- Corrosion resistant construction of stainless steel and bronze assembly
- Manual override
- Slip on inlet connection flange for direction adjustment
- ATEX compliant operation for Zones 1 and 2

Connections
Foam/water inlet: flanged according to DIN PN 16, or ANSI 150 lb

Optional Components
- Built-in inductor optional on all models (S version)
- Suction hose and valve

Listings and Approvals
- Det Norske Veritas DNV
- Bureau Veritas (BV)
- KFSD (Kuwait); FJM-80 WTO
- Russian Maritime Register of Shipping (RMRS)

Ordering Information
When ordering, specify the following information:
- Part number
- Type
- Flange type
- Capacity: flow and pressure (optional)
- Foam induction (S-version)
**FJM-80 WTO**

**FJM-80 WTO S**

**FJM-80 Monitor - Range of Jet**

Deduct 10% for self induction nozzle. Minimum range at wind still conditions.
FJM Monitors - Average Fog Pattern (in still air)

~1/3 OF R
~2/3 OF R
~1/3 OF R

FJM Monitors - Average Fog Pattern in Still Air

FOOTPRINT

FJM-150 WTO

MANUAL OVERRIDE
SLIP ON FLANGE
150 DIN PN 16 OR 6 IN. ANSI 150 lb

~423 mm

~780 mm

STOP / START OF OSCILLATOR

~590 mm

~520 mm

FJM-150 Monitor - Range of Jet

Deduct 10% for self induction nozzle.
Minimum range at wind still conditions

m

Lpm

11,700
10,000
8,000
6,000
5,000

FJM Monitors - Capacity Ranges

Recommended maximum capacity

Lpm

20,000
15,000
10,000
5,000
2,000

bar

4 5 6 7 8 9 10 11 12 13 14 15 16
## Performance Data

<table>
<thead>
<tr>
<th>FJM - WTO Standard</th>
<th>80</th>
<th>100</th>
<th>150</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Water capacity</strong></td>
<td>Maximum 3,700 Lpm&lt;br&gt;Minimum 500 Lpm</td>
<td>Maximum 6,000 Lpm&lt;br&gt;Minimum 1,000 Lpm</td>
<td>Maximum 11,700 Lpm&lt;br&gt;Minimum 3,000 Lpm</td>
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<tr>
<td><strong>Design pressure</strong></td>
<td>4 bar to 16 bar&lt;br&gt;ATEX operation: 4 bar to 11 bar&lt;br&gt;Optimum: 10 bar to 12 bar</td>
<td>4 bar to 16 bar&lt;br&gt;ATEX operation: 4 bar to 11 bar&lt;br&gt;Optimum: 10 bar to 12 bar</td>
<td>4 bar to 16 bar&lt;br&gt;ATEX operation: 4 bar to 11 bar&lt;br&gt;Optimum: 10 bar to 12 bar</td>
</tr>
<tr>
<td><strong>Rotation - oscillation</strong></td>
<td>30°, 50°, 70°, and 100°</td>
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</tr>
<tr>
<td><strong>Rotation - manual</strong></td>
<td>360°</td>
<td>360°</td>
<td>360°</td>
</tr>
<tr>
<td><strong>Elevation - manual</strong></td>
<td>-60° / +90°</td>
<td>-60° / +90°</td>
<td>-60° / +90°</td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>25 kg</td>
<td>32 kg</td>
<td>67 kg</td>
</tr>
<tr>
<td><strong>Connection: water</strong></td>
<td>80 DIN PN 16 or 3 in. ANSI 150 lb</td>
<td>100 DIN PN 16 or 4 in. ANSI 150 lb</td>
<td>150 DIN PN 16 or 6 in. ANSI 150 lb</td>
</tr>
<tr>
<td><strong>Material: body</strong></td>
<td>Stainless steel</td>
<td>Stainless steel</td>
<td>Stainless steel</td>
</tr>
<tr>
<td><strong>Material: flange</strong></td>
<td>Galvanised steel</td>
<td>Galvanised steel</td>
<td>Galvanised steel</td>
</tr>
<tr>
<td><strong>Material: nozzle</strong></td>
<td>Bronze</td>
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</tr>
</tbody>
</table>

**Note:** Reaction force (N) = 0.233 x Q (Lpm) x √p (bar).

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<th>Part No.</th>
<th>Description</th>
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<tbody>
<tr>
<td>161508716</td>
<td>FJM-80 WTO DIN</td>
</tr>
<tr>
<td>161508819</td>
<td>FJM-80 DIN ANSI</td>
</tr>
<tr>
<td>161508737</td>
<td>FJM-80 S WTO DIN, excluding suction hose</td>
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<tr>
<td>161508840</td>
<td>FJM-80 S WTO ANSI, excluding suction hose</td>
</tr>
<tr>
<td>161008618</td>
<td>FJM-80 suction hose 1 1/4 in. 3 m</td>
</tr>
<tr>
<td>161510811</td>
<td>FJM-100 WTO DIN/ANSI</td>
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<tr>
<td>161510761</td>
<td>FJM-100 S WTO DIN/ANSI, excluding suction hose</td>
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<tr>
<td>161010606</td>
<td>FJM-100 suction hose 2 in. 3 m</td>
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<tr>
<td>161515719</td>
<td>FJM-150 WTO DIN/ANSI/JIS</td>
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<tr>
<td>161015608</td>
<td>FJM-150 suction hose 2 in. 3 m</td>
</tr>
</tbody>
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## ATEX and IECEx Marking

![ATEX and IECEx Marking](image)