Cleaning unit
MJD
for dust cartridges up to Ø 328 mm

1. Features

The Filtration Group cleaning system MJD is a very cost and cleaning efficient jet pulse cleaning system for dust filter cartridges. By a aimed air flow with the optimized multi-jet nozzle, we can reach a regular cleaning over the whole length of the cartridge. The cleaning system is available for the different cartridge diameter in optimized sizes. Depending on the application the cleaning system (MJD) is available in aluminium/steel zinc plated, as the standard or stainless steel, as a special version.

In relation with the Filtration Group cartridge the multi-jet cleaning system (MJD) is providing a very efficient and economic solution for a lot of applications. The optimized multi-jet nozzle (MJD), comparing to the conventional nozzle or jet pipe, shows huge advantages. The advantages are given in the noise reduction (up to 8 dB), energy efficiency and cleaning efficiency. Thereby you go easy on environment and the live time of the cartridges will increase considerable.

Characteristics

- Extremely effective
- Extreme energy efficiency
- Uniform cleaning
- Optimized cleaning efficiency in the upper and bottom part of the cartridge
- Versions for both the untreated and cleaned gas sides
- Compatible to the Rotating Wing (G1 valve)
- Low noise level
- Minimal consumption of compressed air due of the optimised nozzle geometry
- Worldwide distribution
2. Function

During the filtration phase dust particles are separated on the cartridge surface. A filter cake forms, which will be cleaned at a time control or differential pressure related. At the cleaning we get a very quick expansion of the pressure vessel volume in a short time. These will reverse the flow direction and blow off the filter cake.

3. Technical data

Cleaning unit for dust cartridges with an outside diameter up to 328 mm.

**Standard version multi-jet nozzle**
- Material: Aluminium

**Special version multi-jet nozzle**
- Material: Stainless steel (1.4301)

**Standard and special version**
- Differential pressure via filter plate: max. 15 mbar*
- Cleaning medium: Oil, dust and condensate-free compressed air at operating temperature
- Compressed air connection: G3/8, G3/4, G1 male*
- Compressed air: 5 bar to 6 bar (max. 7 bar)
- Pulse duration: 0.1 s to 0.3 s

* Depends on cartridge geometry

Technical data is subject to change without notice!

<table>
<thead>
<tr>
<th>Compressed air consumption per cartridge</th>
<th>Capacity of pressure vessel [l]</th>
<th>Compressed air consumption per cleaning impulse [l] (fad)</th>
</tr>
</thead>
<tbody>
<tr>
<td>MJD-12</td>
<td>2</td>
<td>9</td>
</tr>
<tr>
<td>MJD-16</td>
<td>6</td>
<td>27</td>
</tr>
<tr>
<td>MJD-32</td>
<td>16-32</td>
<td>68-92</td>
</tr>
</tbody>
</table>

* Depends on cartridge geometry

Technical data is subject to change without notice!
4. Ordering example

4.1 Type number key for cleaning units

### Type of cleaning
- **MJD**: Multi-jet nozzle for conical and cylindrical cartridges
- **RLD**: Rotating wing for cylindrical cartridges
- **RLK**: Rotating wing for conical cartridges

#### Cartridge diameter
- **-12**: 120 mm
- **-16**: 160 mm
- **-32**: 328 mm

#### Cartridge length and mode of installation
- **00**: Independent of length, installation for example via round thread or bayonet
- **03**: 300 mm, installation MJD/RLD via tie rod or RLK via Quick-Lock
- **06**: 600 mm, installation MJD/RLD via tie rod or RLK via Quick-Lock
- **10**: 1000 mm, installation MJD/RLD via tie rod or RLK via Quick-Lock
- **12**: 1200 mm, installation MJD/RLD via tie rod or RLK via Quick-Lock

#### Installation side of cartridge
- **REIN**: Installation on cleaned gas side
- **ROH**: Installation on untreated gas side

#### Versions
- **A1**: Nozzle aluminium or galvanized or coated steel, RLD/K with ball bearing
- **V1**: Nozzle aluminium or stainless steel, RLD with plain bearing
- **V2**: Stainless steel, RLD with plain bearing
- **OS**: Only RLD/K with ball bearing without baffle plate, Nozzle aluminium or coated steel

### Ordering example

**MJD-16 00 REIN A1**
- Installation on cleaned gas side
- Cartridge geometry: Ø 328 mm
- Cartridge mounting: Untreated gas side

5. Accessories

<table>
<thead>
<tr>
<th>Order numbers</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>79791104</td>
<td>Holding bolts PA6, pack of 3</td>
</tr>
<tr>
<td>77838568</td>
<td>Centre ring EL 033, galvanized steel</td>
</tr>
<tr>
<td>77934326</td>
<td>Centre ring EL 033, V2A stainless steel</td>
</tr>
<tr>
<td>77885031</td>
<td>Centre ring 2E 033, galvanized steel</td>
</tr>
<tr>
<td>78215220</td>
<td>Centre ring 2E 033, V2A stainless steel</td>
</tr>
<tr>
<td>76161913</td>
<td>Reusable end cap, galvanized steel</td>
</tr>
<tr>
<td>76161921</td>
<td>Reusable end cap, V4A stainless steel</td>
</tr>
</tbody>
</table>
6. Installation

The multi-jet nozzle can be supplied for installation on the untreated or cleaned gas side. A membrane valve must be provided on the pressure vessel for each cleaning unit. The cartridges are individually cleaned to ensure the least possible impairment to the volume flow and optimal cleaning results. The membrane valves can be controlled according to a time control or a differential pressure limit.

7. Design

Please contact us for detailed technical information, any open questions and for general expert advice. Completion of the relevant questionnaire would facilitate in the coordination of all important parameters. Comprehensive documentation on our product range, cleaning units and cartridges can be provided.