Cleaning unit

RLK

for conical dust cartridges, Ø 328 mm

1. Features

The conical Filtration Group rotating wing is an extremely efficient cleaning system for dust collectors that enables the dust filter cake to be detached over the complete cartridge length. This will increase the lifetime of the filter cartridge. Based on the optimized air flow the cleaning has a very low noise level. Comparing to the multi-jet cleaning we can reduce the pressure in the pressure vessel, which gives an efficient energy operating. In combination with Filtration Group Quick-Lock dust cartridges, the rotating wing represents an exceptionally effective and economical solution which is suitable for a wide range of applications.

Characteristics

- Extremely efficient
- Uniform cleaning
- Version for the untreated gas side
- Simple installation
- Low mounting height
- Low noise level
- Minimal consumption of compressed air
- Careful cleaning of cartridges
- Low cleaning pressure
- Suitable for high differential pressure load
- Worldwide distribution
2. Function

During the filtration phase, the baffle plate is forced upwards by the flow. Dust particles are separated on the cartridge surface and a filter cake forms. The cleaning pulse forces the baffle plate downwards and moves the cartridge out of the filtered fluid flow. At the same time, the rotating wing element is set in motion by the nozzle holes and the filter cake is detached by the fine pulsed air jets and the simultaneous vibratory movement in the cartridge pleats.

3. Technical data

Cleaning unit for Quick-Lock dust cartridges with an outside diameter of 328 mm.

- Materials: Aluminium, galvanized steel, polypropylene
- Operating temperature: -20 °C to 90 °C
- Differential pressure via filter plate: max. 30 mbar
- Cleaning medium: Oil, dust and condensate-free compressed air at operating temperature
- Compressed air connection: G¼ male
- Compressed air: 3 bar to 4 bar (max. 4.2 bar)
- Pulse duration: 0.5 s to 3 s (standard 1.5 s)

<table>
<thead>
<tr>
<th>Compressed air consumption</th>
<th>Capacity of pressure vessel [l]</th>
<th>Compressed air consumption per cleaning impulse [l] (fad)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type designation</td>
<td></td>
<td></td>
</tr>
<tr>
<td>RLK-3206 ROH</td>
<td>16</td>
<td>Approx. 50</td>
</tr>
<tr>
<td>RLK-3210 ROH</td>
<td>32</td>
<td>Approx. 80</td>
</tr>
<tr>
<td>RLK-3212 ROH</td>
<td>32</td>
<td>Approx. 90</td>
</tr>
</tbody>
</table>

Technical data is subject to change without notice!
4. Type number key and Order numbers

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

**Order number**

<table>
<thead>
<tr>
<th>Order number</th>
<th>Cleaning unit</th>
<th>Cartridge model designation*</th>
<th>Dimension L [mm]</th>
<th>Cartridge mounting</th>
</tr>
</thead>
<tbody>
<tr>
<td>70363715</td>
<td>RLK-32 06 ROH A1</td>
<td>852 052 Ti ...</td>
<td>600</td>
<td>Untreated gas side</td>
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<tr>
<td>70368951</td>
<td>RLK-32 10 ROH A1</td>
<td>852 062 Ti ...</td>
<td>1000</td>
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<td>70327511</td>
<td>RLK-32 12 ROH A1</td>
<td>852 032 Ti ...</td>
<td>1200</td>
<td></td>
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</table>

* For more information, refer to the data sheets for the 328 NK Quick-Lock.

5. Accessories

<table>
<thead>
<tr>
<th>Order number</th>
<th>Designation</th>
</tr>
</thead>
<tbody>
<tr>
<td>76956668</td>
<td>Fixing kit Quick-Lock (1 cartridge holder, 2 fixing clips, screws)</td>
</tr>
<tr>
<td>76956676</td>
<td>Fixing kit Quick-Lock, pack of 10</td>
</tr>
</tbody>
</table>
6. Installation

The conical rotating wing can be installed and removed with the cartridge on the untreated gas side with spring clips (Quick-Lock system - no tools required). The filter plate is to prepare according Fig. 1. Afterwards the tripod with the baffle plate and the fixing kit is to mount on the filter plate. Insert the rotating wing into the cartridge (Fig. 2) and fix the centre ring (Fig. 3). Put the cartridge into the cartridge holder (Fig. 4) and snap it into the fixing clips (Fig. 5).

*1 = Cartridge holder
*2 = Fixing clip

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.