CONTRAfluran™-Anaesthetic Gas Filter with Standard Mount

Instruction for Use

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made in Germany
This instruction for use contains information about the CONTRAfluran™-System, consisting of the CONTRAfluran™-Anaesthetic gas filter, the standard mount and the logistic.

Please read the instruction for use carefully before performing installation and operation of the CONTRAfluran™-System. The instruction for use is one of the product’s components and needs to be kept in direct proximity of the devices, so that it will be accessible for the operating personnel at any time.

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1. What is CONTRAfluran™?

CONTRAfluran™ is a world new innovation. It is a technology protected by international patents and other patent applications with which noxious anaesthetic gases are completely adsorbed out of the expiration air of a patient.

The CONTRAfluran™-Anaesthetic gas filter is a special filter consisting of solid materials, distinguished by their rugged grain structure, extensive surface and high microporosity. This highly porous internal structure adsorbs efficiently and retains volatile anaesthetic gas components selectively from the exhaled gas as it passes through the filter. The standard mount helps to fasten the CONTRAfluran™-Anaesthetic gas filter.

2. Appropriate use

The CONTRAfluran™-Anaesthetic gas filter is intended to remove volatile anaesthetic gases in operation rooms, intensive care units, as well as mobile, and ambulatory treatment areas independent of the kind of the exhaust device used. The CONTRAfluran™-Anaesthetic gas filter is designed exclusively for these applications. Every use exceeding the specified purpose is prohibited. Moreover it must also be noted, that the filter must only be used by trained skilled personnel. The standard mount should only be used in combination with a CONTRAfluran™-Anaesthetic gas filter during sedation and operation of patients using volatile anaesthetics like Sevofluran, Isofluran or Desfluran.

Only strict compliance with the specifications included in this instruction for use can guarantee the safe and efficient use of the CONTRAfluran™-System.

The ZeoSys GmbH or his authorized representatives will not accept any liability or damage, which is caused by incorrect or unreasonable use of the filter.

3. Transportation, storage and operation of the CONTRAfluran™-Anaesthetic gas filter and the standard mount

This chapter describes the transportation, storage, operation and service of the CONTRAfluran™-Anaesthetic gas filter. To make the performance of your filter effective and to help ensure your safety, be sure to follow all proper application procedures.

3.1. Transportation

During the transportation of the CONTRAfluran™-System, the following points should be considered:

- The dispatch carton should be transported with the label showing on the top.
- The carton should not be put on its top or on its side.
- Open the carton from the top.
- Keep the original carton for back transport.

3.2. Storage

If the filter is supposed to be stored while it is not being used, please consider the following facts:

- The dispatch carton should be stored with the label showing on the top.
- Do not store in the open air, but exclusively in suitable rooms which are dry and dust-free. We recommend a maximum relative humidity of 80%.
- Storage temperature should be −5 °C to +40 °C.
3.3. Operation

Before using the filter, ensure that all components needed for a proper use are available. These including:

- The CONTRAfluran™-Anaesthetic gas filter
- The standard mount
- Accessories: flexible hose ISO 22 and operationally adapters to use with different exhaust ports

For initial operation, please follow the procedures below:

A. Attach the CONTRAfluran™-Anaesthetic gas filter to the expired gas outlet valve of the respirator by means of a flexible hose. The following pictures show the steps, which are necessary to attach the filter to the expired gas outlet valve.

A1. Fasten the mount to the rail of the respirator/anaesthetic gas device.
A2. Insert the filter into the mount.
A3. Remove the seal cap from the filter.
A4. Connect the flexible hose to the filter.
A5. Note down the applied anaesthetic gas on the top label of the filter.
4. Application areas of the CONTRAfluran™-System

4.1. Application in operation areas with exhaust device

4.2. Application in intensive care units and ambulatory treatment areas

4.3. Application with the AnaConDa-System

5. What is to be considered during the application of the filter?

- Apply only one kind of anaesthetic gas per filter.
- Mark the respective applied anaesthetic gas on the corresponding label of the filter.
- Filter change must be done: when approximately 267 ml anaesthetic gas is applied.
- The used filter should be clearly marked in order to avoid any repeated use.

6. Redemption and disposal of the CONTRAfluran™-Anaesthetic gas filter

- Close the used filter with the seal cap.
- Put the used filter back into the original dispatch carton.
- Six used filters packed in each original dispatch carton should be returned (charge free) to the manufacturer or its legal distributor (Deposit returnable). The manufacturer takes over a professional disposal of the filters.
- For back transport use only the original dispatch cartons.
## 7. Technical data

<table>
<thead>
<tr>
<th>CONTRAfluran™-Anaesthetic gas filter</th>
<th>Product-class according to MDD</th>
<th>Class 1</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Temperature</strong></td>
<td>Operation: +5 to +40°C</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage: –5 to +40°C</td>
<td></td>
</tr>
<tr>
<td><strong>Relative Humidity</strong></td>
<td>Operation: up to 80 %</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Storage: up to 80 %</td>
<td></td>
</tr>
<tr>
<td><strong>Storage capacity</strong></td>
<td>Approx. 400 g</td>
<td></td>
</tr>
<tr>
<td><strong>Flow-Resistance</strong></td>
<td>≤ 1,5 mmWS</td>
<td></td>
</tr>
<tr>
<td><strong>Height</strong></td>
<td>19 cm</td>
<td></td>
</tr>
<tr>
<td><strong>Diameter</strong></td>
<td>12 cm</td>
<td></td>
</tr>
<tr>
<td><strong>Weight</strong></td>
<td>Approx. 1.000 g</td>
<td></td>
</tr>
<tr>
<td><strong>Volumen</strong></td>
<td>2 l</td>
<td></td>
</tr>
</tbody>
</table>

### Product description

<table>
<thead>
<tr>
<th><strong>CONTRAfluran™-Anaesthetic gas filter</strong></th>
<th><strong>Art. no.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard mount (without fill level control unit)</td>
<td>Zeo000050</td>
</tr>
<tr>
<td>Mount with SENSOfluran™-Fill level control unit</td>
<td>Zeo000052</td>
</tr>
<tr>
<td>Flexible hose 22 mm (interface 17 cm)</td>
<td>Zeo000060</td>
</tr>
<tr>
<td>Flexible hose 22 mm (interface 40 cm)</td>
<td>Zeo000061</td>
</tr>
<tr>
<td>Flexible hose 6 mm (Length 180 cm)</td>
<td>Zeo000062</td>
</tr>
<tr>
<td>Connector 22 mm (a/i), with 6 mm port</td>
<td>Zeo000066</td>
</tr>
<tr>
<td>Connector 22 mm a / 30 mm i</td>
<td>Zeo000067</td>
</tr>
</tbody>
</table>
8. Customer service

In the case of a malfunction of any product, please contact our customer service.

You can reach our customer service as follows:

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