Grease filter

Types FA, FF, FL, FLT, FLTS, KF, FB and FBW

TROX® TECHNIK
The art of handling air

TROX HESCO Schweiz AG
Walderstrasse 125
Postfach 455
CH-8630 Rüti ZH

Tel. +41 55 250 71 11
Fax +41 55 250 73 10
www.troxhesco.ch
info@troxhesco.ch
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Safety instructions

⚠️ CAUTION!

Risk of injury from sharp edges and corners, ridges and thin-walled sheet metal parts!
– Proceed carefully with all work.
– Wear protective gloves, safety shoes and protective helmet.

⚠️ WARNING!

Danger from incorrect use. Misuse of the product may lead to dangerous situations.
The product must not be used:
– in areas subject to explosion hazards;
– in the open air without sufficient protection against weather effects;
– in atmospheres that may have a damaging and/or corrosive effect on the product due to scheduled or unscheduled chemical reactions.

Remark:

Items in bold type are available from stock.

⚠️ CAUTION!

Damage to the product due to improper handling. Check the device for damage and contamination prior to operation!
Improper handling may lead to considerable material damage of the product.
– Do not use any acid or abrasive cleaning agents.
– Adhesives from sticky tape may lead to colour damage.
– Excessive moisture may lead to colour damage and corrosion.
– Use only cleaning agents, greases and oils that are expressly specified.
Grease filter type FA
Filter cell with mounting frame of aluminium and attached grease drip tray for horizontal installation

Application
Grease filter type FA are suitable for exhaust systems at hotel- and other kitchens, canteens, etc.

Realisation
A complete filter unit consists of:
1. filter cell of aluminium weaving
2. mounting frame of sectional aluminium
3. attached grease drip tray of aluminium sheet

Cleaning: Remove filter element and dip and turn it thoroughly in hot water with an added detergent. Afterwards rinse it well with ordinary clean hot water.

Dimensions

<table>
<thead>
<tr>
<th>Type</th>
<th>ND B x H</th>
<th>A</th>
<th>C</th>
<th>D</th>
<th>E</th>
<th>G</th>
<th>I</th>
<th>K</th>
<th>L</th>
<th>M</th>
<th>Recommended max. volumen flow rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FA 0</td>
<td>200 x 200</td>
<td>320</td>
<td>253</td>
<td>212</td>
<td>227</td>
<td>320</td>
<td>212</td>
<td>227</td>
<td>13</td>
<td>251</td>
<td>200</td>
</tr>
<tr>
<td>FA 1</td>
<td>500 x 200</td>
<td>320</td>
<td>253</td>
<td>212</td>
<td>227</td>
<td>620</td>
<td>512</td>
<td>201</td>
<td>75</td>
<td>551</td>
<td>500</td>
</tr>
<tr>
<td>FA 2</td>
<td>500 x 350</td>
<td>470</td>
<td>403</td>
<td>362</td>
<td>377</td>
<td>620</td>
<td>512</td>
<td>201</td>
<td>75</td>
<td>551</td>
<td>1000</td>
</tr>
<tr>
<td>FA 3</td>
<td>500 x 500</td>
<td>620</td>
<td>553</td>
<td>512</td>
<td>527</td>
<td>620</td>
<td>512</td>
<td>201</td>
<td>75</td>
<td>551</td>
<td>1500</td>
</tr>
</tbody>
</table>
Grease filter type FF
Filter cell and mounting frame with dripping gutter
for vertical installation

Application
Grease filter type FF are suitable for large and small kitchens.

Realisation
FF 15 + 20
A complete filter unit consists of:
1. Filter cell of aluminium weaving, filter cell frame of aluminium
2. Mounting frame of plastic with dripping gutter, permissible operating temperature 80° C.
Radiation-heat must also be considered.

Cleaning in hot water with an added detergent.

Dimensions type FF

<table>
<thead>
<tr>
<th>Type</th>
<th>ND</th>
<th>B</th>
<th>H</th>
<th>A</th>
<th>C</th>
<th>L</th>
<th>M</th>
<th>Recommended max. volumen flow rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FF 15</td>
<td>500×150</td>
<td>499</td>
<td>149</td>
<td>554</td>
<td>204</td>
<td>507</td>
<td>158</td>
<td>350</td>
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<tr>
<td>FF 20</td>
<td>500×200</td>
<td>499</td>
<td>199</td>
<td>554</td>
<td>254</td>
<td>507</td>
<td>208</td>
<td>500</td>
</tr>
</tbody>
</table>
**Application**

Grease filter type FL are suitable for large and small kitchens.

**Realisation**

A complete filter unit consists of:

1. Filter cell of aluminium weaving, filter cell frame of aluminium (without dripping gutter)
2. Mounting frame of aluminium (without dripping gutter)

Cleaning in hot water with an added detergent.

---

**Dimensions type FL**

![Dimensions diagram]

<table>
<thead>
<tr>
<th>Type</th>
<th>NW</th>
<th>B</th>
<th>H</th>
<th>A</th>
<th>C</th>
<th>L</th>
<th>M</th>
<th>Recommended max. volume flow rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FL 0</td>
<td>200x200</td>
<td>199</td>
<td>199</td>
<td>251</td>
<td>251</td>
<td>205</td>
<td>205</td>
<td>200</td>
</tr>
<tr>
<td>FL 15</td>
<td>500x150</td>
<td>499</td>
<td>149</td>
<td>551</td>
<td>201</td>
<td>505</td>
<td>155</td>
<td>350</td>
</tr>
<tr>
<td>FL 20</td>
<td>500x200</td>
<td>499</td>
<td>199</td>
<td>551</td>
<td>251</td>
<td>505</td>
<td>205</td>
<td>500</td>
</tr>
<tr>
<td>FL 25</td>
<td>500x250</td>
<td>499</td>
<td>249</td>
<td>551</td>
<td>301</td>
<td>505</td>
<td>255</td>
<td>700</td>
</tr>
<tr>
<td>FL 35</td>
<td>500x350</td>
<td>499</td>
<td>349</td>
<td>551</td>
<td>401</td>
<td>505</td>
<td>355</td>
<td>1000</td>
</tr>
<tr>
<td>FL 50</td>
<td>500x500</td>
<td>499</td>
<td>499</td>
<td>551</td>
<td>551</td>
<td>505</td>
<td>505</td>
<td>1500</td>
</tr>
</tbody>
</table>
Grease filter type FLT
Filter cell with welded dripping gutter and mounting frame of aluminium
for vertical installation 0 - 10°

Grease filter type FLTS
Filter cell with welded dripping gutter and mounting frame of aluminium
for slanted installation 10° - 30°

Application
Grease filter type FLT and FLTS are suitable for large and small kitchens.

Realisation
A complete filter unit consists of:
1 Filter cell of aluminium weaving, filter cell frame of aluminium with welded dripping gutter
1 mounting frame of aluminium

Cleaning in hot water with an added detergent.

Dimensions types FLT and FLTS
Grease filter type KF
Filter cell and mounting frame for vertical installation

KF1

Application
Grease filter type KF are intended for domestic kitchen exhaust ventilation.

Realisation
KF1
A complete filter unit consists of:
1. Filter cell of aluminium weaving, filter cell housing of white plastic
2. Mounting frame of white plastic, permissible operating temperature 80° C.

Cleaning in hot water with an added detergent.

Dimensions type KF1

<table>
<thead>
<tr>
<th>Type</th>
<th>ND</th>
<th>ØA</th>
<th>ØB</th>
<th>ØC</th>
<th>ØD</th>
<th>E</th>
<th>F</th>
<th>Recommended max. volume flow rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>KF 1</td>
<td>145</td>
<td>170</td>
<td>150</td>
<td>144.8</td>
<td>145</td>
<td>90</td>
<td>25</td>
<td>100</td>
</tr>
</tbody>
</table>
Installation

Grease filters type FF, FLT, FL are installed vertically, laterally into the exhaust air duct.

1) Suspended ceiling

Grease filters type FA are being installed horizontally beneath the exhaust air duct.

Filter:
Filter angle max. 30°

FLT/FF:
Filter angle max. 10°

FL:

We recommend the following maximum air volume rate:

- FL 0, FL 20, FL 25, FL 35, FL 50
- FA 0, FA 1, FA 2, FA 3

<table>
<thead>
<tr>
<th>FL</th>
<th>FA</th>
<th>Air Volume Rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>200 m³/h</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>500 m³/h</td>
</tr>
<tr>
<td>25</td>
<td>2</td>
<td>700 m³/h</td>
</tr>
<tr>
<td>35</td>
<td>3</td>
<td>1000 m³/h</td>
</tr>
<tr>
<td>50</td>
<td></td>
<td>1500 m³/h</td>
</tr>
</tbody>
</table>

We recommend the following maximum air volume rate:

- FL 0, FL 20, FL 25, FL 35, FL 50
- FA 0, FA 1, FA 2, FA 3

<table>
<thead>
<tr>
<th>FL</th>
<th>FA</th>
<th>Air Volume Rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>0</td>
<td>0</td>
<td>100 m³/h</td>
</tr>
<tr>
<td>20</td>
<td>1</td>
<td>350 m³/h</td>
</tr>
<tr>
<td>25</td>
<td>2</td>
<td>500 m³/h</td>
</tr>
<tr>
<td>35</td>
<td>3</td>
<td></td>
</tr>
</tbody>
</table>

We recommend the following maximum air volume rate:

- FL 15, FL 20, FL 15, FL 20
- FL 15, FL 20, FL 15, FL 20
- FL 15, FL 20, FL 15, FL 20

<table>
<thead>
<tr>
<th>FL</th>
<th>FA</th>
<th>Air Volume Rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>15</td>
<td>15</td>
<td>100 m³/h</td>
</tr>
<tr>
<td>15</td>
<td>20</td>
<td>350 m³/h</td>
</tr>
<tr>
<td>15</td>
<td>35</td>
<td>500 m³/h</td>
</tr>
<tr>
<td>20</td>
<td>20</td>
<td></td>
</tr>
</tbody>
</table>
**Grease filter type FB**
Filter cell and mounting frame of stainless steel, without dripping gutter

**Application**
The grease filters are used in kitchen hoods or in exhaust air ducts as grease or vapor separators. They are suitable for exhaust ventilation in the kitchen at hotels, canteens and hospitals, etc. The grease filters protect fans, ducts and facades from grease and contamination.

**Realisation**
Stainless sheet metal, V2A

**Dimensions type FB and ER**

<table>
<thead>
<tr>
<th>Type</th>
<th>ND</th>
<th>B</th>
<th>H</th>
<th>A</th>
<th>C</th>
<th>Recess with ER</th>
<th>Recommended max. volumen flow rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FB 1</td>
<td>500x250</td>
<td>498</td>
<td>248</td>
<td>554</td>
<td>304</td>
<td>511x261</td>
<td>400 - 500</td>
</tr>
<tr>
<td>FB 2</td>
<td>500x500</td>
<td>498</td>
<td>498</td>
<td>554</td>
<td>554</td>
<td>511x511</td>
<td>800 - 1000</td>
</tr>
</tbody>
</table>

**Installation in exhaust air hood**
FB without mounting frame ER

1) Grease collection groove inclined towards drain sleeve
Grease filter type FBW
Filter cell with dripping gutter and mounting frame of stainless steel

**Features**
- Easy to install
- Excellent degree of separation
- High resistance to temperature
- Flameproof, i.e. flames will not pass through
- Easy to take off and easy to clean in a dishwasher (twice the week for best results)

**Dimensions type FBW and ER**

<table>
<thead>
<tr>
<th>Type</th>
<th>ND</th>
<th>B</th>
<th>H</th>
<th>A</th>
<th>C</th>
<th>Recess with ER</th>
<th>Recommended max. volumen flow rate [m³/h]</th>
</tr>
</thead>
<tbody>
<tr>
<td>FBW 1</td>
<td>500×250</td>
<td>499</td>
<td>249</td>
<td>554</td>
<td>304</td>
<td>511×261</td>
<td>400 - 500</td>
</tr>
<tr>
<td>FBW 2</td>
<td>500×500</td>
<td>499</td>
<td>499</td>
<td>554</td>
<td>554</td>
<td>511×511</td>
<td>800 - 1000</td>
</tr>
</tbody>
</table>

Other dimensions on request

**Installation in exhaust air hood**
FB/FBW with mounting frame ER

1) Pop-Rivet Ø3.2 (on-site)
   TTF/D429 (3.5-4.5 mm) stainless (König)

**Included are 2 snap-type fasteners**
Selection diagram

Place a vane anemometer Ø about 25 mm in the central area.

Dimensions

<p>| | | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>1 FB1</td>
<td>500×250</td>
<td>2.3 kg</td>
</tr>
<tr>
<td>1 FB2</td>
<td>500×500</td>
<td>3.9 kg</td>
</tr>
<tr>
<td>1 FBW1</td>
<td>500×250</td>
<td>2.8 kg</td>
</tr>
<tr>
<td>1 FBW2</td>
<td>500×500</td>
<td>4.4 kg</td>
</tr>
<tr>
<td>1 ER1</td>
<td>503×253</td>
<td>1.1 kg</td>
</tr>
<tr>
<td>1 ER2</td>
<td>503×503</td>
<td>1.5 kg</td>
</tr>
</tbody>
</table>