**Design**
- Filter vessel made of GRP with fixtures
- Main control valve with built-on microprocessor control
- Automatic backwash, time-controlled

**Options**
- Operating valve BV
- Bypass valve BP
- Ventilation and air bleed valve BEV
- Skid-mounted version with drinking water backwash

---

**SAND FILTERS HSF, REMOVAL OF MECHANICAL IMPURITIES**
Support medium: quartz gravel 2 – 3 mm / filter medium: quartz gravel 1 – 2 mm

<table>
<thead>
<tr>
<th>Product name</th>
<th>Flow rate m³/h at 20 m/h</th>
<th>Hydraulic connection</th>
<th>Dimensions in mm W x D x H</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HSF 1C</td>
<td>0.9</td>
<td>R 1 1/2” / R 1 1/2” / hose tail 20 mm</td>
<td>330 x 370 x 1,610</td>
<td>315 092</td>
</tr>
<tr>
<td>HSF 2C</td>
<td>1.6</td>
<td>R 1 1/2” / R 1 1/2” / hose tail 20 mm</td>
<td>370 x 390 x 1,600</td>
<td>315 093</td>
</tr>
<tr>
<td>HSF 3C</td>
<td>1.9</td>
<td>R 2” / R 2” / hose tail 20 mm</td>
<td>380 x 410 x 1,890</td>
<td>315 094</td>
</tr>
<tr>
<td>HSF 4C</td>
<td>2.3</td>
<td>R 2” / R 2” / hose tail 20 mm</td>
<td>410 x 420 x 1,890</td>
<td>315 095</td>
</tr>
<tr>
<td>HSF 5C</td>
<td>4.3</td>
<td>R 2 1/4” / R 2 1/4” / R 2 1/4”</td>
<td>890 x 560 x 1,960</td>
<td>315 096</td>
</tr>
</tbody>
</table>

The different media are supplied separately packed.

---

**IRON REMOVAL FILTERS HAF, REMOVAL OF SMALL AMOUNTS OF IRON AND MANGANESE**
Support medium: quartz gravel 1 – 2 mm / filter medium: BIRM and Hydroanthracite N

<table>
<thead>
<tr>
<th>Product name</th>
<th>Flow rate m³/h at 12 m/h</th>
<th>Hydraulic connection</th>
<th>Dimensions in mm W x D x H</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAF 1C</td>
<td>0.6</td>
<td>R 1 1/2” / R 1 1/2” / hose tail 20 mm</td>
<td>330 x 370 x 1,610</td>
<td>320 065</td>
</tr>
<tr>
<td>HAF 2C</td>
<td>0.9</td>
<td>R 1 1/2” / R 1 1/2” / hose tail 20 mm</td>
<td>370 x 390 x 1,600</td>
<td>320 066</td>
</tr>
<tr>
<td>HAF 3C</td>
<td>1.2</td>
<td>R 2” / R 2” / hose tail 20 mm</td>
<td>380 x 410 x 1,890</td>
<td>320 067</td>
</tr>
<tr>
<td>HAF 4C</td>
<td>1.4</td>
<td>R 2” / R 2” / hose tail 20 mm</td>
<td>410 x 420 x 1,890</td>
<td>320 068</td>
</tr>
<tr>
<td>HAF 5C</td>
<td>2.6</td>
<td>R 2 1/4” / R 2 1/4” / R 2 1/4”</td>
<td>890 x 560 x 1,960</td>
<td>320 069</td>
</tr>
</tbody>
</table>

HAF 1C – 2C filters are supplied completely filled. The media for HAF 3C – 5C filters are supplied separately packed.

---

**ACTIVATED CARBON FILTERS HAF, REMOVAL OF FREE CHLORINE AS WELL AS OF ORGANIC AND PARTICULATES**
Support medium: quartz gravel 1 – 2 mm / filter medium: activated carbon 0.5 – 2.5 mm

<table>
<thead>
<tr>
<th>Product name</th>
<th>Flow rate m³/h at 20 m/h</th>
<th>Hydraulic connection</th>
<th>Dimensions in mm W x D x H</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>HAF 1C</td>
<td>0.9</td>
<td>R 1 1/2” / R 1 1/2” / hose tail 20 mm</td>
<td>330 x 370 x 1,610</td>
<td>310 084</td>
</tr>
<tr>
<td>HAF 2C</td>
<td>1.6</td>
<td>R 1 1/2” / R 1 1/2” / hose tail 20 mm</td>
<td>370 x 390 x 1,600</td>
<td>310 085</td>
</tr>
<tr>
<td>HAF 3C</td>
<td>1.9</td>
<td>R 2” / R 2” / R 2”</td>
<td>380 x 410 x 1,890</td>
<td>310 086</td>
</tr>
<tr>
<td>HAF 4C</td>
<td>2.3</td>
<td>R 2” / R 2” / R 2”</td>
<td>410 x 420 x 1,890</td>
<td>310 087</td>
</tr>
<tr>
<td>HAF 5C</td>
<td>4.3</td>
<td>R 2 1/4” / R 2 1/4” / R 2 1/4”</td>
<td>890 x 560 x 1,960</td>
<td>310 088</td>
</tr>
</tbody>
</table>

HAF 1C – 2C filters are supplied completely filled. The media for HAF 3C – 5C filters are supplied separately packed.

---

**OPTIONAL OPERATING VALVE BV**
for HSF - HAF - HAF – prevents raw water supply during backwash

**Operating valve BV 1**
Size 1C to 4C
Item number: 315 112

**Operating valve BV 2**
Size 5C
Item number: 366 015
FILTERS AND FILTER SYSTEMS

Multi-media filter MFT

Design
- Filter vessel made of GRP
- Fixtures for constant flow rates
- Front tubing with main control valve
- Fully automatic, time-controlled operation
- Filter medium not included, please order separately

Options
- Filter media flushing with filtrate/external fluid
- Automatic backwash triggered by an adjustable differential pressure
- Additional control for cascade flushing of several filters in parallel

MFT MULTI-MEDIA FILTERS
Automatic simplex multi-media filter units for well, surface, and process water

<table>
<thead>
<tr>
<th>Product name</th>
<th>Flow rate m³/h at 20 m/h</th>
<th>Hydraulic connection RW/FILTRATE/WW</th>
<th>Dimensions in mm W x D x H</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFT 1</td>
<td>4.3</td>
<td>DN 50 / DN 50 / DN 32</td>
<td>770 x 940 x 2,450</td>
<td>300 050</td>
</tr>
<tr>
<td>MFT 2</td>
<td>5.3</td>
<td>DN 50 / DN 50 / DN 32</td>
<td>830 x 1,000 x 2,660</td>
<td>300 051</td>
</tr>
<tr>
<td>MFT 3</td>
<td>8.4</td>
<td>DN 50 / DN 50 / DN 32</td>
<td>850 x 1,160 x 2,730</td>
<td>300 052</td>
</tr>
<tr>
<td>MFT 4</td>
<td>12.2</td>
<td>DN 50 / DN 50 / DN 32</td>
<td>930 x 1,320 x 2,770</td>
<td>300 053</td>
</tr>
<tr>
<td>MFT 5</td>
<td>21.3</td>
<td>DN 65 / DN 65 / DN 65 flanges</td>
<td>1,250 x 1,740 x 2,880</td>
<td>300 108</td>
</tr>
</tbody>
</table>

OPTIONAL CONTROLLER FOR FILTER UNIT CONTROL BY DIFFERENTIAL PRESSURE
for MFT simplex filter

DIFF-P Triggers backwash as soon as a pre-set differential pressure is reached 325 525

OPTIONAL CONTROLLER FOR FILTER UNIT CONSISTING OF UP TO 3 MFT FILTERS IN PARALLEL, FACILITATING CASCADE BACKWASH – for the MFT pilot filter of a cascade

MFT cascade 3 For sequential backwash of several MFT filters in parallel 545 751

FILTER PACKING FOR MULTI-MEDIA FILTER MFT
Item No. and price in € per complete fill

<table>
<thead>
<tr>
<th>Size</th>
<th>Sand</th>
<th>Iron removal</th>
<th>Activated carbon</th>
<th>Multi-media</th>
</tr>
</thead>
<tbody>
<tr>
<td>MFT 1</td>
<td>300 210</td>
<td>300 225</td>
<td>300 220</td>
<td>300 215</td>
</tr>
<tr>
<td>MFT 2</td>
<td>300 211</td>
<td>300 226</td>
<td>300 221</td>
<td>300 216</td>
</tr>
<tr>
<td>MFT 3</td>
<td>300 212</td>
<td>300 227</td>
<td>300 222</td>
<td>300 217</td>
</tr>
<tr>
<td>MFT 4</td>
<td>300 213</td>
<td>300 228</td>
<td>300 223</td>
<td>300 218</td>
</tr>
<tr>
<td>MFT 5</td>
<td>300 214</td>
<td>300 229</td>
<td>300 224</td>
<td>300 219</td>
</tr>
</tbody>
</table>
### SAND FILTERS SF
Automatic side stream filter for cooling circuits with glass granules filling

<table>
<thead>
<tr>
<th>Product name</th>
<th>Flow rate min./max. m³/h</th>
<th>Hydraulic connection RW/FILTRATE/WW</th>
<th>Dimensions in mm W x D x H</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF 200 – 6.0 bar</td>
<td>7 – 11</td>
<td>DN 40 / DN 40 / DN 40</td>
<td>1,200 x 830 x 1,600</td>
<td>315 024</td>
</tr>
<tr>
<td>SF 320 – 6.0 bar</td>
<td>11 – 17</td>
<td>DN 65 / DN 40 / DN 40</td>
<td>1,200 x 820 x 1,490</td>
<td>315 051</td>
</tr>
<tr>
<td>SF 580 – 6.0 bar</td>
<td>17 – 24</td>
<td>DN 65 / DN 40 / DN 40</td>
<td>1,280 x 940 x 1,580</td>
<td>315 029</td>
</tr>
</tbody>
</table>

### SAND FILTERS SF / AFM
Automatic side stream filter for cooling circuits with quartz gravel and support gravel filling

<table>
<thead>
<tr>
<th>Product name</th>
<th>Flow rate min./max. m³/h</th>
<th>Hydraulic connection RW/FILTRATE/WW</th>
<th>Dimensions in mm W x D x H</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF 200 – 6.0 bar / AFM</td>
<td>7 – 11</td>
<td>DN 40 / DN 40 / DN 40</td>
<td>1,200 x 830 x 1,600</td>
<td>315 121</td>
</tr>
<tr>
<td>SF 320 – 6.0 bar / AFM</td>
<td>11 – 17</td>
<td>DN 65 / DN 40 / DN 40</td>
<td>1,200 x 820 x 1,490</td>
<td>315 122</td>
</tr>
<tr>
<td>SF 580 – 6.0 bar / AFM</td>
<td>17 – 24</td>
<td>DN 65 / DN 40 / DN 40</td>
<td>1,280 x 940 x 1,580</td>
<td>315 123</td>
</tr>
</tbody>
</table>

### OPTIONAL CONTROLLER FOR SAND FILTER SF CONTROL BY DIFFERENTIAL PRESSURE
DIFF-P
Triggers backwash as soon as a pre-set differential pressure is reached

### OPTIONAL SF SAND FILTER BACKWASH WITH CITY WATER

<table>
<thead>
<tr>
<th>Product code</th>
<th>Description</th>
<th>Item number</th>
</tr>
</thead>
<tbody>
<tr>
<td>SF-SW-6.0 – 200</td>
<td>For SF 200 – 6.0</td>
<td>315 060</td>
</tr>
<tr>
<td>SF-SW-6.0 – 320/580</td>
<td>For SF 320 – 6.0 / SF 580 – 6.0</td>
<td>315 109</td>
</tr>
</tbody>
</table>

---

**Sand filter SF – side stream filter for cooling circuits**

**Design**
- Compact unit on a plastic Euro pallet, ready for connection
- GRP filter tank, for filling with quartz gravel and support gravel or glass granules (AFM type)
- Feed pump:
  - Plastic or stainless steel housing
  - Plastic or stainless steel impeller
- ABS main control valve
- PVC tubing
- Backwash control with timer

Particle-free city water or pilot air at a pressure of 3 - 4 bar should be used as the pilot medium.

**Advantages**
- Automatic, time-controlled backwash
- Ideal operating flow thanks to integrated feed pump
- High separation capacity thanks to quartz gravel with optimum grain size distribution
- Alternative version with particularly effective filtering and germicidal action (AFM version)
- Easy to mount thanks to ready-to-connect design
- Flow rate from 11 – 24 m³/h
- Can be used in the main stream of the cooling circuit, as long as the maximum supply pressure is not exceeded
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