Cascade filtration system for processing, filtering, pumping and temperature controlling water-soluble coolants

**Characteristics**
- 3-phase filtration through combination of sedimentation and 2-phase ultra-fine filtration
- Cooling options:
  - Integrated Water-Water-Chiller (WW) for connection to central cooling system or external cooling unit
  - Non-contact level monitoring with alarm function (acoustic & optical)
  - Housing out of chemically and mechanically resistant plastic
  - Inclined tank floor for 75 L model
  - Outlet on the back for quick and easy emptying
  - Quick couplings on all electrical connections and media lines
  - Prepared remote machine connection including connection cable
  - Acoustic and visual alarm in case of pump errors (e.g. mechanical blockage)
- Depending on the size, eitherrollable or transportable by pallet truck

**Advantages**
- Cost effective alternative to centrifuges
- Significant minimization of noise and vibration in the working area
- No wear and tear parts like the bearings and the drives in centrifuges used
- Can be used even at very low flow rates
- Removable pump units enable very easy cleaning of the entire system
- Compact design
- Clear and comfortable operation
- Easy and fast filter change
- 3-phase filtration secures that particles ≥1µm are filtered out
- High precision temperature control
- Ultra-fine filtration allows usage in the production of high-end surfaces
- No exhaust necessary
- Chemical and abrasion resistant pumps

**Application Area**
- Used to handle, pump, filter and temperature control water-soluble coolants
- Mostly run together with grinding, generating, sawing and milling machines
- Used as a substitute for centrifuges
- Filtering, processing and temperature control of water-soluble cutting fluids
- Used in the machining of glass, ceramics and metals

**Options**
- Sensor for pH-measurement
- Sensor for flow rate
- Additional water inlets
- Pressure control valves
- SPS controls incl. temperature recording
- Further options upon request
## CFS - 75 | CFS - 300

<table>
<thead>
<tr>
<th>Specification</th>
<th>CFS - 75</th>
<th>CFS - 300</th>
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</thead>
<tbody>
<tr>
<td>Filling volume [l]</td>
<td>75</td>
<td>300</td>
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<tr>
<td>Sedimentation sections</td>
<td>2</td>
<td>3</td>
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<tr>
<td>Supply pumps</td>
<td>2</td>
<td>2</td>
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<tr>
<td>Max. flow rate per pump [l/min]</td>
<td>100</td>
<td>100</td>
</tr>
<tr>
<td>Temperature accuracy [°C]</td>
<td>≤ 1</td>
<td>≤ 1</td>
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<tr>
<td>Filtering systems</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>Constant filtering [μm]</td>
<td>5</td>
<td>5</td>
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<tr>
<td>Fine filtering [μm]</td>
<td>1</td>
<td>1</td>
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<tr>
<td>Electric connection</td>
<td>400 V - 3 Ph - 50 Hz</td>
<td>220 V - 1 Ph - 50 Hz</td>
</tr>
<tr>
<td></td>
<td></td>
<td>208 V - 3 Ph - 60 Hz</td>
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<tr>
<td></td>
<td></td>
<td>208 V - 1 Ph - 60 Hz</td>
</tr>
<tr>
<td>Empty weight [kg]</td>
<td>112</td>
<td>198</td>
</tr>
<tr>
<td>Dimensions [L x W x H cm³]</td>
<td>82 x 49 x 117</td>
<td>145 x 85 x 133</td>
</tr>
<tr>
<td>Inlet height 1 – IH 1 [cm]</td>
<td>49</td>
<td>62</td>
</tr>
<tr>
<td>Inlet height 2 – IH 2 [cm]</td>
<td>44</td>
<td>50</td>
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