**Application**

The biofilter plants of the MCBF series are used for odor reduction of waste air streams of waste water treatment facilities, food industry, landfills or chemical industry. Each time when contaminants of waste air streams are well degradable in a biological way, bioteg container biofilter plants of the MCBF series are first choice.

The unique design of the double walled container (steel with PEHD-inliner) allows bioteg to deliver container biofilter plants completely factory-fabricated and filled with biofilter material worldwide in a ready-for-use-status.

A 24-hours-test before delivery ensures the correct function of the delivered plant on-site.

**Technical Data and Dimensions**

Materials with media contact: PE, PP, VA, PVC
Biofilter material: bioteg bpc BT-50 und bpc BT-100

<table>
<thead>
<tr>
<th>Type</th>
<th>waste air [m³/h]</th>
<th>L [m]</th>
<th>B [m]</th>
<th>H [m]</th>
<th>Cont. weight [ton]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCBF-300</td>
<td>400</td>
<td>3,2</td>
<td>2,2</td>
<td>1,8</td>
<td>1</td>
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<tr>
<td>MCBF-500</td>
<td>750</td>
<td>4,2</td>
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<td>1,8</td>
<td>1</td>
</tr>
<tr>
<td>MCBF-1000</td>
<td>1250</td>
<td>6,2</td>
<td>2,2</td>
<td>1,8</td>
<td>1</td>
</tr>
<tr>
<td>MCBF-1500</td>
<td>1750</td>
<td>7,2</td>
<td>2,2</td>
<td>1,8</td>
<td>1</td>
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<tr>
<td>MCBF-2000</td>
<td>2250</td>
<td>9,2</td>
<td>2,2</td>
<td>2,3</td>
<td>1</td>
</tr>
<tr>
<td>MCBF-2500</td>
<td>2750</td>
<td>10,2</td>
<td>2,2</td>
<td>2,3</td>
<td>1</td>
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<tr>
<td>MCBF-3000</td>
<td>3250</td>
<td>11,2</td>
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<td>2,3</td>
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<tr>
<td>MCBF-3500</td>
<td>3750</td>
<td>12,2</td>
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<td>2,3</td>
<td>1</td>
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<tr>
<td>MCBF-4000</td>
<td>4250</td>
<td>13,2</td>
<td>2,2</td>
<td>2,3</td>
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</table>

All plants are in accordance with VDI-3477, Biofilter. Special sizes and designs on request.

Technical modifications reserved.

**Key**

1. filter module, double walled
   - outer side steel, RAL acc. customer’s preference
   - inner side with media contact: PEHD-inliner, completely filled with filter material and installation of irrigation system
2. technical cabinet with fan, scrubber, equipment
3. door to technical cabinet, stainless steel
4. separation wall
5. waste air inlet
6. fresh water supply
7. drain line
8. power supply
9. electric panel (steel, stainless steel or plastics)
10. stainless steel cover of the technical cabinet / complete cover of the filterbed optional
11. footprint (at least = plant size + 200 mm)

 Preconditions by client / Interfaces marked red!

Plants are also available with several structural measures for explosion protection according to ATEX.
Application

The modular upgradeable MCBF series is designed for the odor reduction of especially high waste air streams. These air streams exist in many cases at the ventilation of big factory or delivery halls. They may result as well from the addition of fresh air to waste air streams in order to delute high contaminated waste air streams.

A technical cabinet which might be located in one of the filter modules as well as in an external technical container (TC) contains besides the fan and scrubber all necessary components and equipment for the automatic operation of the plant.

The biofilter plants can be designed for working with waste air from explosive areas as well as for being located inside areas exposed to explosion hazards.

Technical Data and Dimensions

Materials with media contact: PE, PP, VA, PVC
Biofilter material: bioteg bpc BT-50 and bpc BT-100

<table>
<thead>
<tr>
<th>Type</th>
<th>waste air till</th>
<th>L [m]</th>
<th>B [m]</th>
<th>H [m]</th>
<th>Cont. [m²/µm³]</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCBF-5000</td>
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<td>MCBF-6000</td>
<td>6500 [m³/h]</td>
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<td>5.0</td>
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<tr>
<td>MCBF-7000</td>
<td>7500 [m³/h]</td>
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<td>5.0</td>
<td>2.3</td>
<td>2</td>
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<td>5.0</td>
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<td>2</td>
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<tr>
<td>MCBF-9000</td>
<td>9500 [m³/h]</td>
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<td>7.6</td>
<td>2.3</td>
<td>3</td>
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<tr>
<td>MCBF-10000</td>
<td>12500 [m³/h]</td>
<td>11.2</td>
<td>7.6</td>
<td>2.3</td>
<td>3</td>
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<td>MCBF-15000</td>
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<td>8.1</td>
<td>2.3</td>
<td>TC+3</td>
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<td>TC+3</td>
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<td>MCBF-25000</td>
<td>30000 [m³/h]</td>
<td>19.0</td>
<td>12.0</td>
<td>3.0</td>
<td>TC+3</td>
</tr>
</tbody>
</table>

All plants are in accordance with VDI-3477, Biofilter.

*Weight of each container module appr. 20 t
Special sizes and designs on request.
Technical modifications reserved.

Key

1 filter module, double walled
outer side steel, RAL acc. customer’s preference
inner side with media contact: PEHD-inliner, completely filled with filter material and installation of irrigation system
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