CG/FILTER-UVc

AIR PURIFYING UNITS WITHOUT FAN

· PURIFIES INDOOR AIR
· DIFFERENT STAGES OF FILTERING
· UVC GERMICIDAL CHAMBER
· FOR EXISTING AIR CONDITIONING AND VENTILATION INSTALLATIONS
· 25 MM ACOUSTIC CASING

WE BET ON UVc TECHNOLOGY TO BEAT THE VIRUS

FILTRATION STAGE
F7 + F9
F7 + HEPA H14
The CG / FILTER-UVC air purifying units without fan have been designed to be used in existing air conditioning and ventilation installations, to clean and purify air, in high occupancy areas with high demands for soundproofing and versatility.

**CG/FILTER/UVc**

**GERMICIDAL CHAMBER**

Depending on the model, these purification units can integrate a germicidal chamber, built on the basis of UVc ultraviolet lamps.

**FILTRATION STAGES**

They incorporate two stages of F7 + F9 or F7 + HEPA H14 filtering depending on the model, as well as an activated carbon filter for the elimination of odours, providing a combination with excellent filtration performance.
EASE OF INSTALLATION AND MAINTENANCE

The access door allows quick access to clean the impeller and replace filters.

DURABILITY

The outer panels of these units are made of pre-finished sheet metal with aluminium structural frames to maximise the life of the equipment, allowing it to be installed in outdoors corrosive areas. The installation of a rain cover is recommended to prevent entry of water.

LOW SOUND LEVEL

The 25mm thick noise reducing outer panels use bespoke, high quality insulating materials and make this ideal equipment for installation in areas where a low noise level is required.

EXAMPLE OF APPLICATION

Indoor air purification

Capturing and purifying outdoor air
Air purifying units for circular ducts, with 25mm acoustic panels for noise reduction, without fan.

Characteristics:
• Frame made from 40mm profile aluminum.
• Outer panels made of 25 mm thick, high quality acoustic insulation, and pre-finished sheet metal.
• Standard flanges on intake and discharge sides to facilitate installation in ducts.
• Filtration stages according to model:
  - F7 + F9
  - F7 + HEPA H14
  - Activated carbon filter odour removal
• Germicidal chamber with UVc light (256 nm), depending on model.
• Inspection cover for maintenance and replacement of filters.

Finish:
• Aluminum profile frame and pre-finished sheet metal with 25mm thick acoustically insulated panels.

On demand:
• Automatic control system.

Order code

CG/FILTER/UVc — 315 — F7+F9 — CG

Purifying units without fan  Flange diameter in mm Filters (F7+F9) Filters (F7+H14) Germicidal UVc chamber

Technical characteristics

<table>
<thead>
<tr>
<th>Model</th>
<th>Maximum flow (m³/h)</th>
<th>Weight (kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Filters (F7+F9)</td>
<td>Filters (F7+H14)</td>
</tr>
<tr>
<td>CG/FILTER/UVc-315</td>
<td>1225</td>
<td>650</td>
</tr>
<tr>
<td>CG/FILTER/UVc-355</td>
<td>1450</td>
<td>900</td>
</tr>
<tr>
<td>CG/FILTER/UVc-450</td>
<td>2200</td>
<td>1300</td>
</tr>
<tr>
<td>CG/FILTER/UVc-500</td>
<td>5400</td>
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</tbody>
</table>

Filters characteristics

<table>
<thead>
<tr>
<th>Filters</th>
<th>EN 779 Em</th>
<th>EN 1822 ISO ePM10</th>
<th>ISO ISO ePM0,3</th>
<th>ISO ePM0,6</th>
<th>ISO ePM1,0</th>
<th>ISO COARSE</th>
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</thead>
<tbody>
<tr>
<td>F7</td>
<td>90%</td>
<td>&gt;65%</td>
<td>&gt;65%</td>
<td>&gt;85%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>F9</td>
<td>95%</td>
<td>&gt;80%</td>
<td>&gt;95%</td>
<td>&gt;95%</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>HEPA H14</td>
<td>-</td>
<td>&gt;99,99%</td>
<td>-</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

Technical characteristics of the UVc germicidal chamber

Depending on model, these purification units can integrate a germicidal chamber, built on the basis of UVc ultraviolet lamps in a 256 nm spectrum, a wave amplitude indicated to inactivate a wide variety of microorganisms by absorbing short wavelength energy through DNA and RNA. For specific types of viruses or bacteria that are affected by the radiation dose from the germicidal chamber, consult the specific document.

<table>
<thead>
<tr>
<th>Model</th>
<th>Number of lamps</th>
<th>Total electric power (W)</th>
<th>Total UVc radiation power (W)</th>
<th>Radiation dose*(mJ/cm²)</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG/FILTER/UVc-315</td>
<td>6</td>
<td>66</td>
<td>16,8</td>
<td>6,0</td>
</tr>
<tr>
<td>CG/FILTER/UVc-355</td>
<td>6</td>
<td>66</td>
<td>16,8</td>
<td>5,9</td>
</tr>
<tr>
<td>CG/FILTER/UVc-450</td>
<td>4</td>
<td>100</td>
<td>28</td>
<td>5,6</td>
</tr>
<tr>
<td>CG/FILTER/UVc-500</td>
<td>6</td>
<td>150</td>
<td>42</td>
<td>4,5</td>
</tr>
</tbody>
</table>

*Minimum dose calculated based on flow with F7HEPA H14 filters.
**Dimensions mm**

![Diagram showing dimensions of the models](image)

<table>
<thead>
<tr>
<th>Model</th>
<th>A</th>
<th>B</th>
<th>C</th>
<th>ØD</th>
</tr>
</thead>
<tbody>
<tr>
<td>CG/FILTER/UVc-315</td>
<td>500</td>
<td>500</td>
<td>250</td>
<td>315</td>
</tr>
<tr>
<td>CG/FILTER/UVc-355</td>
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<td>355</td>
</tr>
<tr>
<td>CG/FILTER/UVc-450</td>
<td>700</td>
<td>700</td>
<td>350</td>
<td>450</td>
</tr>
<tr>
<td>CG/FILTER/UVc-500</td>
<td>900</td>
<td>900</td>
<td>450</td>
<td>500</td>
</tr>
</tbody>
</table>

**Accesorios**

![Images of accessories](image)

**Characteristic curves**

Q = Flow in m³/h, m³/s and cfm.  
Pₑ = Static pressure in mmH₂O, Pa and inwg.

![Graph showing characteristic curves](image)

**CG/FILTER/UVc-315**

- F7+H14
- F7+F9
**Characteristic curves**

Q = Flow in \( m^3/h \), \( m^3/s \) and cfm. Pe = Static pressure in mmH\(_2\)O, Pa and inwg.

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**CG/FILTER/UVc-355**

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**CG/FILTER/UVc-450**
**Characteristic curves**

Q = Flow in m³/h, m³/s and cfm.  
Pe = Static pressure in mmH₂O, Pa and inwg.

**CG/FILTER/UVc-500**

![Graph showing characteristic curves for CG/FILTER/UVc-500](image-url)