We provide clean air for the following applications:
Commercial Buildings, Hospitals, Data Centers, Museums, Food Industries, Pharmaceuticals, Others

Hoods & Units
Summary

Introduction

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Tertiary : Filter box
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HEPA Filter Manufacturer
AFPRO Filters has been able to manufacture its products in all standard and non-standard dimensions, tailor-made to client specifications since 1979. These products manufactured by AFPRO Filters are high-quality, long-lasting and innovative products. In order to guarantee their quality, we have established a laboratory in which tests are carried out every day in order to make our air filters more efficient and longer lasting.

Our Recommendations for Obtaining Minimum Filtration Efficacy as per ISO 16890
Choose the filtration for your health establishment in accordance with ISO 16890 and the outside air quality.

1. Look for your location on the map

2. Match your zone and receive the minimal filtration recommendations.

Classification of Very High Efficiency Filters: Standard EN1822
Standard EN 1822:2009 is used to classify HEPA and ULPA filters based on MPPS efficiency. The table gives more detailed information on the European filter classification.

Air cleanliness in Controlled Environments: Standard 14644
ISO 14644-1:2015 classifies the cleanliness of the air in clean rooms, clean zones and separative devices as defined in ISO 14644 7, based on the concentration of particles suspended in the air.

The table to the right classifies the ISOs based on the number and size of the particles.
Terminal hoods

HL-PH UNIT

Characteristics

**Application** Air supply or return in clean rooms with turbulent or laminar flow HEPA Filters with polyurethane gaskets

**Electro-galvanised steel** 15/10e and 20/10e

**Epoxy paint** RAL 9010, oven-baked

**Connection** on the top or the side

**For HEPA filters** 68 or 110 mm thickness

**Pressure connector** 2 pressure ports

**Grill**: interchangeable perforated, swirl-jet or 4-way

**Advantages**

- Robust, welded construction
- Easy opening / closing of the diffusion grill
- Grill easy to remove
- Installation with universal system: Feet or brackets
- Wide choice of standard dimensions, compatible with most standard filters on the market
- Modular for filters that are 68 or 110 mm thick

<table>
<thead>
<tr>
<th>Size</th>
<th>External Dimensions* (mm)</th>
<th>For filters (mm)</th>
<th>T connection</th>
<th>Side S connection</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>Ø Height**</td>
<td>Ø Height</td>
<td>Ø Height</td>
<td>Ø Height</td>
</tr>
<tr>
<td>DBB</td>
<td>361x361</td>
<td>305x305x68/110</td>
<td>160</td>
<td>160</td>
</tr>
<tr>
<td>DCC</td>
<td>513x513</td>
<td>457x457x68/110</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>DBE</td>
<td>361x666</td>
<td>305x610x68/110</td>
<td>200</td>
<td>200</td>
</tr>
<tr>
<td>DEE</td>
<td>666x666</td>
<td>610x610x68/110</td>
<td>250</td>
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<td>DEH</td>
<td>666x1276</td>
<td>610x1220x68/110</td>
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</tr>
</tbody>
</table>

*Excluding 25 mm flange.

**Excluding 50 mm connector.

Options

- Support feet for mounting on weight-bearing ceiling of thickness 40 to 100 mm
- Pivoting grill
- Magnetic grill closure
- Intermediate frame for the installation of 2 stages of filtration
- Rectangular duct connection
- Specific RAL for the paint
- Made of 304L or 316L stainless steel
- Special Production of 150 mm-thick filter (H +40 mm)
- 100% test port accessible from the room
Terminal hoods

HL-PHR UNIT

Characteristics

**Application** Air return in clean room with turbulent air flow and staged pre-filters and fine filters

**Electro-galvanised steel** 15/10e and 20/10e

**Epoxy paint** RAL 9010, oven-baked

**Connection** on the top or the side

**For filters** 48 or 96 mm thick

**Pressure connector** accessible from the room

**Grill:** perforated

Advantages

- Robust, welded construction
- Easy opening/closing of the grill
- Grill easy to remove
- Installation with universal system: Feet or brackets
- Modular for filters of thickness 48 or 96 mm

<table>
<thead>
<tr>
<th>Size</th>
<th>External Dimensions* (mm)</th>
<th>For filters (mm)</th>
<th>Unit Height without plenum</th>
<th>Top T duct connection</th>
<th>Lateral S duct connection</th>
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<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td>( \rho )</td>
<td>Height**</td>
</tr>
<tr>
<td>12x12</td>
<td>361x361</td>
<td>287x287x48/96</td>
<td>160</td>
<td>160</td>
<td>245</td>
</tr>
<tr>
<td>12x24</td>
<td>361x666</td>
<td>287x592x48/96</td>
<td>160</td>
<td>200</td>
<td>245</td>
</tr>
<tr>
<td>24x24</td>
<td>666x666</td>
<td>592x592x48/96</td>
<td>160</td>
<td>250</td>
<td>245</td>
</tr>
</tbody>
</table>

*Excluding 25 mm flange.

**Excluding 50 mm connector.

Options

- Support feet for mounting on weight-bearing ceiling of thickness 40 to 100 mm
- Removable pivoting grill
- Magnetic grill closure
- Rectangular duct connection
- Specific RAL for the paint
- Made of 304L or 316L stainless steel
- Pressure connector accessible from the room
Bag in- Bag out Unit

**SF-CH CANISTER UNIT**

**Characteristics**

**Application**
For installation in contaminated air extraction networks and secure replacement of the filter in a plastic bag

- **Welded Steel 20/10e**
- **Epoxy paint RAL 9010, oven-baked**
- **Rip Resistant bag** with integrated elastic
- **Filter held in place** with eccentric cams
- **Maximum service temperature: 90°C**
- **Stainless Steel Leverage System for Hepa filter**

**Advantages**

- Continuous welded
- Robust and modular
- Door gasket seal leakages test Stainless Steel Leverage System
- Mechanical Resistance +/-5000 Pa
- Qualified Unit: Class D (EN 12237), Class C (Eurovent 2/2), L1 (EN 1886)

**Dimensions and Weight**

<table>
<thead>
<tr>
<th>Type</th>
<th>Unit Dimensions (mm)</th>
<th>Filter Dimensions (mm)</th>
<th>Weight (Kg)</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>C  B  B Double Unit</td>
<td>L  W*  H</td>
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<tr>
<td>CAN SF-CH BE</td>
<td>505 804 1608 376</td>
<td>305 610 98</td>
<td>20.6</td>
</tr>
<tr>
<td>CAN SF-CH EE</td>
<td>755 804 1608 376</td>
<td>610 610 98</td>
<td>31.8</td>
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<tr>
<td>CAN SF-CH NBEL</td>
<td>505 804 1608 428</td>
<td>305 610 150</td>
<td>24.2</td>
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<td>CAN SF-CH NEEL</td>
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<td>610 610 150</td>
<td>35.4</td>
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<tr>
<td>CAN SF-CH NBEM</td>
<td>505 804 1608 570</td>
<td>305 610 292</td>
<td>31</td>
</tr>
<tr>
<td>CAN SF-CH NEEM</td>
<td>755 804 1608 570</td>
<td>610 610 292</td>
<td>42.2</td>
</tr>
</tbody>
</table>

* Consider Wx2 for the double unit since this version contains 2 filters.
Bag in- Bag out Unit

SF-CH CANISTER UNIT

Options
- Pressure connectors with valves
- Upper/lower collector - support feet
- AISI 304 or AISI 316 Stainless steel version
- ATEX version
- Integrated manual test scan.
- Integrity control as per ISO 10644-3
- Double unit with a single door
- Unit with integrated prefilter
- Integrated maintenance table
- Porthole inspection on door
- Manometer with support
- Factory assembly or pre-assembly
- Individual factory test with report
Terminal hood

HL-HD

**Characteristics**

- **Application**: multiple applications, hospitals, production facilities
- **Galvanised Steel**
- **RAL 9010 epoxy paint**
- **Connection**: on the top or the side
- **Plenum and filter support**: assembled and sealed, airtight
- **For HEPA filters**: 68 or 150 mm thick
- **Pressure connectors**: mounted
- **Grill**: interchangeable perforated, helicoid-jet or 4-way

**Advantages**

- Can be used for many purposes: air supply/return, wall or ceiling installation
- 3 diffuser models suitable for different types of diffusion:
  - Perforated Grill for vertical diffusion
  - Helicoid grill for diffusion of air via mixture
  - 4-way grill for multidirectional diffusion
- **HL-HD-S** version available with register that can be adjusted from the room

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<table>
<thead>
<tr>
<th>Size</th>
<th>Filter Dimensions (mm)</th>
<th>Overall AxB (mm)</th>
<th>Cut out dimensions ExF (mm)</th>
<th>H HL-HD-T (mm)</th>
<th>H HL-HD-S (mm)</th>
<th>ØG (mm)</th>
<th>I (mm)</th>
<th>Weight HL-HD-T (Kg)</th>
<th>Weight HL-HD-S (Kg)</th>
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<tr>
<td>DBBE</td>
<td>305x305x68</td>
<td>469x469</td>
<td>425x425</td>
<td>240</td>
<td>350</td>
<td>159</td>
<td>115</td>
<td>7</td>
<td>9</td>
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<tr>
<td>DBBL</td>
<td>305x305x150</td>
<td>469x469</td>
<td>425x425</td>
<td>325</td>
<td>475</td>
<td>199</td>
<td>135</td>
<td>8</td>
<td>10</td>
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<td>305x610x68</td>
<td>469x769</td>
<td>425x725</td>
<td>240</td>
<td>390</td>
<td>199</td>
<td>135</td>
<td>9</td>
<td>12</td>
</tr>
<tr>
<td>DCCE</td>
<td>457x457x68</td>
<td>635x635</td>
<td>591x591</td>
<td>240</td>
<td>390</td>
<td>199</td>
<td>135</td>
<td>10</td>
<td>14</td>
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<tr>
<td>DCCL</td>
<td>457x457x150</td>
<td>635x635</td>
<td>591x591</td>
<td>325</td>
<td>525</td>
<td>249</td>
<td>160</td>
<td>10</td>
<td>15</td>
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<tr>
<td>DEEE</td>
<td>610x610x68</td>
<td>769x769</td>
<td>725x725</td>
<td>240</td>
<td>444</td>
<td>249</td>
<td>160</td>
<td>11</td>
<td>17</td>
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<tr>
<td>DEEL</td>
<td>610x610x150</td>
<td>769x769</td>
<td>725x725</td>
<td>325</td>
<td>672</td>
<td>399</td>
<td>225</td>
<td>12</td>
<td>19</td>
</tr>
<tr>
<td>DEGE</td>
<td>610x915x68</td>
<td>769x1069</td>
<td>725x1025</td>
<td>240</td>
<td>510</td>
<td>314</td>
<td>192</td>
<td>17</td>
<td>24</td>
</tr>
<tr>
<td>DEHE</td>
<td>610x1220x68</td>
<td>769x1379</td>
<td>725x1335</td>
<td>240</td>
<td>510</td>
<td>314</td>
<td>192</td>
<td>20</td>
<td>31</td>
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<td>F.P DCCE</td>
<td>457x457x68</td>
<td>595x595</td>
<td>565x565</td>
<td>240</td>
<td>390</td>
<td>199</td>
<td>135</td>
<td>10</td>
<td>14</td>
</tr>
<tr>
<td>F.P DCCL</td>
<td>457x457x150</td>
<td>595x595</td>
<td>565x565</td>
<td>325</td>
<td>525</td>
<td>249</td>
<td>160</td>
<td>10</td>
<td>15</td>
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</tbody>
</table>

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[Diagram of HL-HD-S]

[Diagram of HL-HD-T]
Terminal hood

HL-HD DIFFUSERS

<table>
<thead>
<tr>
<th>Type</th>
<th>Perforated Grill</th>
<th>Helicoid Grill</th>
<th>4-way Grill</th>
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<tbody>
<tr>
<td><strong>Size</strong></td>
<td><strong>Overall (CxC)</strong></td>
<td><strong>Filter E11</strong></td>
<td><strong>Filter H14</strong></td>
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<tr>
<td>DDBE</td>
<td>370x370</td>
<td>240</td>
<td>150</td>
</tr>
<tr>
<td>DBBL</td>
<td>370x370</td>
<td>480</td>
<td>300</td>
</tr>
<tr>
<td>DBEE</td>
<td>370x670</td>
<td>480</td>
<td>300</td>
</tr>
<tr>
<td>DCCG</td>
<td>520x520</td>
<td>500</td>
<td>350</td>
</tr>
<tr>
<td>DCCL</td>
<td>520x520</td>
<td>800</td>
<td>700</td>
</tr>
<tr>
<td>DDEE</td>
<td>670x670</td>
<td>720</td>
<td>600</td>
</tr>
<tr>
<td>DEEL</td>
<td>670x670</td>
<td>1400</td>
<td>1200</td>
</tr>
<tr>
<td>DEGE</td>
<td>670x970</td>
<td>1120</td>
<td>900</td>
</tr>
<tr>
<td>DEHE</td>
<td>670x1270</td>
<td>1300</td>
<td>1200</td>
</tr>
<tr>
<td>F.P.DCCE</td>
<td>520x520</td>
<td>500</td>
<td>350</td>
</tr>
<tr>
<td>F.P.DCCL</td>
<td>520x520</td>
<td>800</td>
<td>700</td>
</tr>
</tbody>
</table>

*adapt based on the diffuser installation height.

Perforated grills are generally used with 68 mm filters.
Filter box

HL-DA UNIT

Characteristics
Application: Unit for the installation of one or several stages of filtration in a duct network.
Single-block galvanized steel
Upstream/downstream clamps, width 30 mm
Side door for filter access, knurled-knob closure and sealed gasket
Runner system for prefilters, tightening via cam for high-efficiency filters, welded plate for active carbon cartridges
Installation of 1 to 3 stages of filtration: prefilter, high-efficiency filter and activated carbon filter
Option to mount from one to several filters per filtration stage to adapt to higher air flow rates.

Configuration
- Installation of 1 to 3 stages of filtration: prefilter, high-efficiency filter and activated carbon filter
- Option to mount from one to several filters per filtration stage to adapt to higher air flow rates.

Construction Variants and Options
- Made of stainless steel 304L or 316L
- Hinged door
- Epoxy paint finishing, RAL as chosen
- Clamp drilling on plane
- Pressure connectors
- Flanges with circular duct connection up to H11
- Round/square conical adaptor for duct connection
- Register for the adjustment and/or sealed isolation (Class 3 or Class 4 as per EN 1751)
- Storm grill with heavy duty anti-volatile mesh
- Weather capping for outside installation
- Support Feet
- Ground connection for ATEX zone
- Special Construction for HEPA filters
# Filter box

**HL-DA UNIT**

<table>
<thead>
<tr>
<th>Size</th>
<th>Number of filters</th>
<th>Dimensions Filters (mm)</th>
<th>Width (mm)</th>
<th>Height (mm)</th>
<th>Depth (mm)**</th>
</tr>
</thead>
<tbody>
<tr>
<td>H1L1</td>
<td>1</td>
<td>592x592</td>
<td>620</td>
<td>620</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H1L1.5</td>
<td>1</td>
<td>592x592 287x592</td>
<td>930</td>
<td>620</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H1L2</td>
<td>2</td>
<td>592x592</td>
<td>1240</td>
<td>620</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H1.5L1</td>
<td>1</td>
<td>592x592 287x592</td>
<td>930</td>
<td>620</td>
<td>400 700 700 700 700 1100</td>
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<tr>
<td>H1.5L2</td>
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<td>592x592 287x592</td>
<td>1240</td>
<td>930</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H2L1</td>
<td>2</td>
<td>592x592</td>
<td>1240</td>
<td>1240</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H2L1.5</td>
<td>2</td>
<td>592x592 287x592</td>
<td>930</td>
<td>1240</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H2L2</td>
<td>2</td>
<td>592x592</td>
<td>1240</td>
<td>1240</td>
<td>400 700 700 700 700 1100</td>
</tr>
<tr>
<td>H2L3</td>
<td>2</td>
<td>592x592</td>
<td>1855</td>
<td>1240</td>
<td>400 700 700 700 700 1100</td>
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<tr>
<td>H3L2</td>
<td>6</td>
<td>592x592 1240 1855</td>
<td>1240</td>
<td>1855</td>
<td>400 700 700 700 700 1100</td>
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<tr>
<td>H3L3</td>
<td>9</td>
<td>592x592 1240 1855</td>
<td>1855</td>
<td>1855</td>
<td>400 700 700 700 700 1100</td>
</tr>
</tbody>
</table>

*Unit with hinged door = depth +100 mm.*