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high purity



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SIMPLAIR - Compact Filter Diffuser

- Filtration



Clean Room Components

PRODUCTS CATALOGUE



SIMPLAIR - Compact Filter Diffuser

SIMPLAIR compact filter diffusers, thanks to the high production technology can be used in clean rooms where laminar flows in a very critical situations are required, such as pharmaceutical, electronic and other industries with high demands for air purity.



CONSTRUCTION

- Frame in anodised extruded aluminium;
- Circular spigot in galvanized steel;
- Protection screens composed of stretched meshes with epossidic white painting, aluminum cover with circular inlet ϕ 250 mm;
- Suspension ears on the corners;
- Filter media in glass fibre paper with thermo-plastic continuous threads and protection stretched mesh;
- Filtration tested in accordance to EN 1822;
- Class ISO 5 – ISO 8.

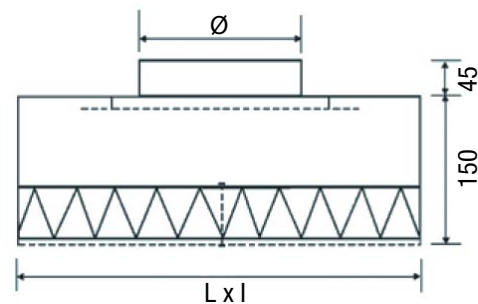
OPERATING RANGE

- Continuous operating temperature: 80°C;
- Relative humidity: 100%;
- Final pressure drop (requires filter replacement): 400 Pa;
- Maximum pressure drop: 600 Pa.

OPTIONS

- Filter class H10 – U15;
- Butterfly damper in the spigot (BD);
- Perforated disc inside (P).

Dimensional drawing:



Scope of dimensions:

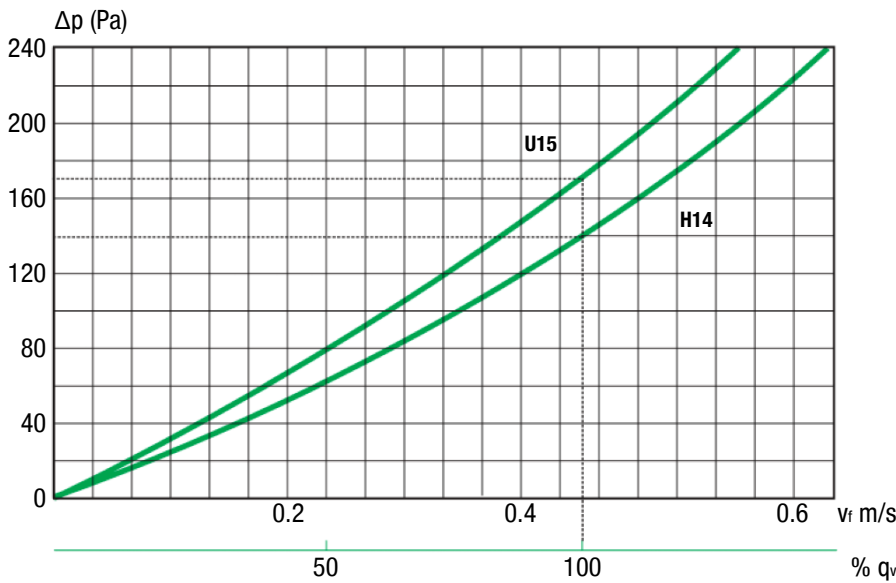
Code	Dimensions LxIxH	Spigot ϕ	Q nominal m ³ /h	Initial ΔP (Pa) H10	Initial ΔP (Pa) H13	Initial ΔP (Pa) H14	Initial ΔP (Pa) U15	Weight (Kg)
3.06	305x610x150	250	300	65	110	120	170	7
5.05	595X595X150	250	600	65	110	120	170	10
6.06	610X610X150	250	600	65	110	120	170	10
6.09	610X915X150	250	900	65	110	120	170	13
6.12	610X1220X150	250	1200	65	110	120	170	16

Technical data:

SIMPLAIR compact Hepa and Uipa diffusers with unidirectional vertical flow (above reversed T profiles) for clean rooms and sterilized zones guarantee the tightness of the system through a leak test with tracer aerosol and air quality class ISO 4/5 in accordance with ISO 14644-1 that can be verified by a photometer. Each single unit is factory tested and equipped with a test report inside its package.

Class (EN 1822)	H14	H15
Integral efficiency	E ≥ 99,995% MPPS	E ≥ 99,9995% MPPS
Local efficiency	E ≥ 99,975% MPPS	E ≥ 99,9975% MPPS

Characteristic diagram:

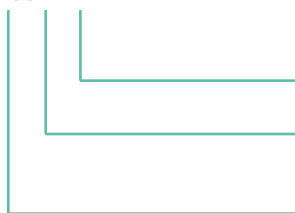


Characteristic diagram shows the curve of the initial pressure drop (ΔP) with clean filters. It allows the calculation of a pressure drop as a function of the face velocity (v_f) and the percentage air change with respect of the nominal air flow (q_v).

The above H14 data are valid also for the model with H13 Filter.
For H10 data, by request.

Ordering key

SIMPLAIR 3.06/ D H14



Filtration class

D - Butterfly damper adjustable from the environment
P - Perforated disk

Model **3.06** 305x610x150
5.05 595x595x150
6.06 610x610x150
5.09 610x915x150
6.12 610x1220x150



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