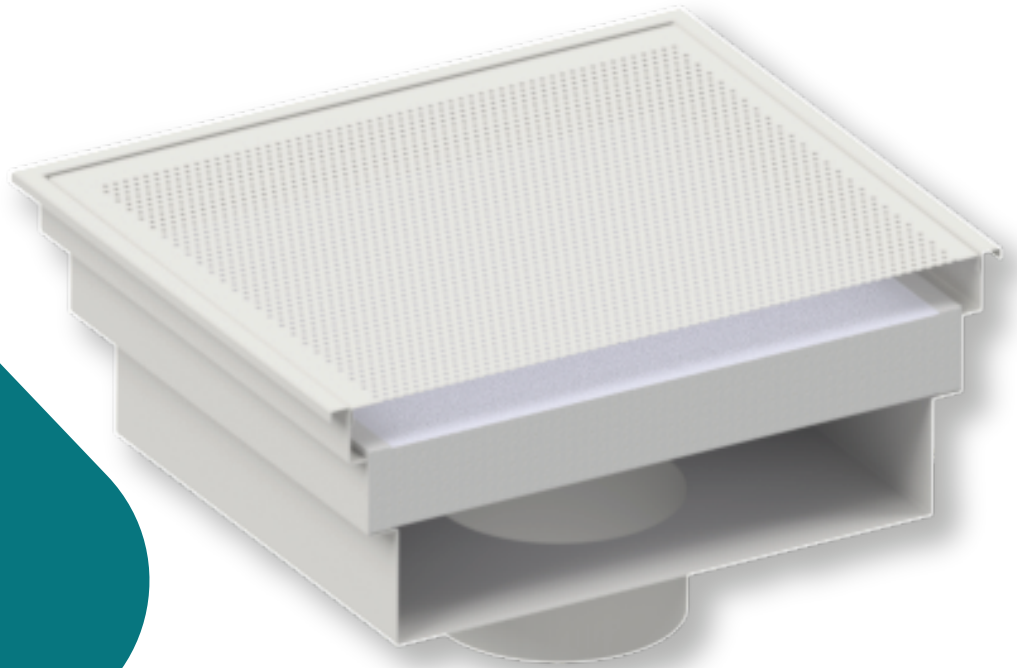




CASTLE
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Hepa Filter Box

Introduction

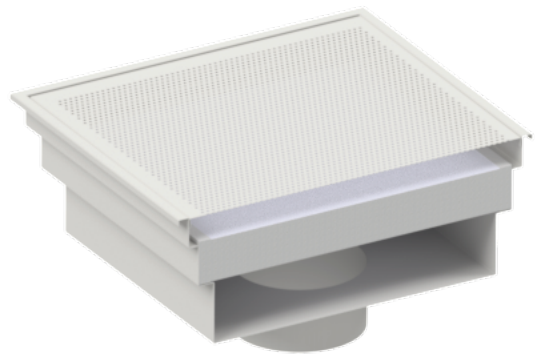
A HEPA (High-Efficiency Particulate Air) filter box is a specialized air filtration enclosure designed to house a HEPA filter and deliver highly purified air in environments where air quality is critical. By combining sealed housing with a high efficiency filter element, the filter box ensures that airborne particles such as dust, pollen, bacteria, mold spores, and other contaminants are effectively removed from the airstream before the air enters space.

Description

HEPA filter boxes are available in various sizes and configurations to accommodate different airflow capacities and installation requirements. They can be mounted in ceilings, walls, or ductwork and are commonly used as terminal filtration units in cleanrooms, healthcare facilities, pharmaceutical plants, laboratories, and other environments where high indoor air quality and contamination control are essential.

Application

- Pharmaceutical manufacturing facilities
- Hospitals and operating rooms
- Isolation rooms and ICUs
- Biotechnology facilities
- Medical device manufacturing
- HVAC ventilation systems



Specifications

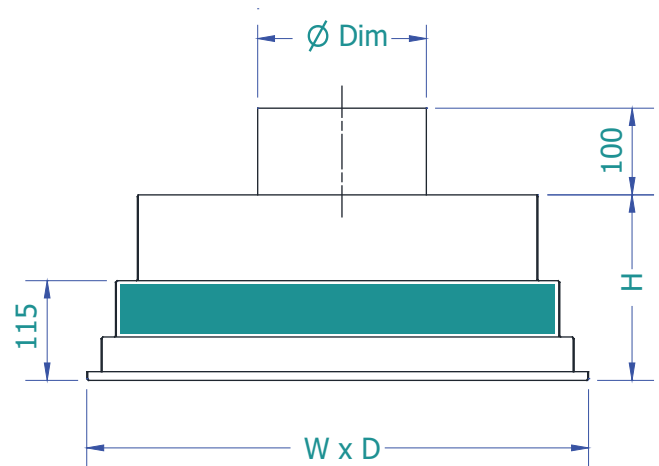
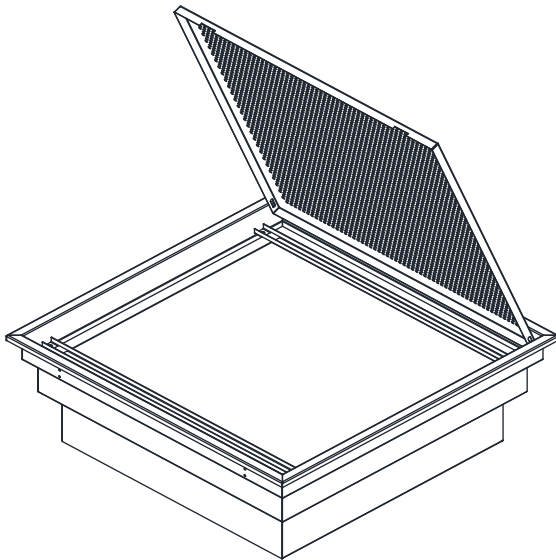
- Housing material: Galvanized steel, stainless steel
- Airtight gasket sealing system
- Filter clamping mechanism for secure installation
- Circular or rectangular duct inlet connection
- Compatible with standard HEPA filter sizes
- Low air leakage construction

- Uniform airflow distribution
- Optional pressure monitoring ports
- Easy access for filter replacement and maintenance

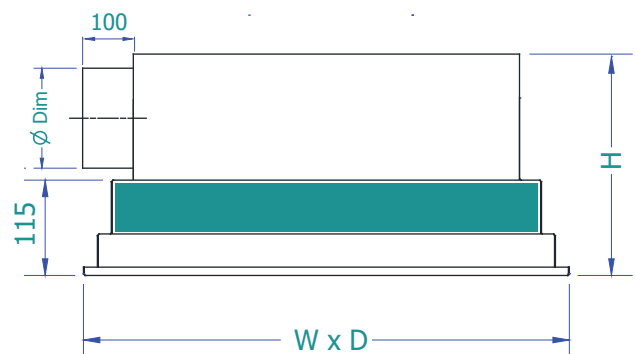
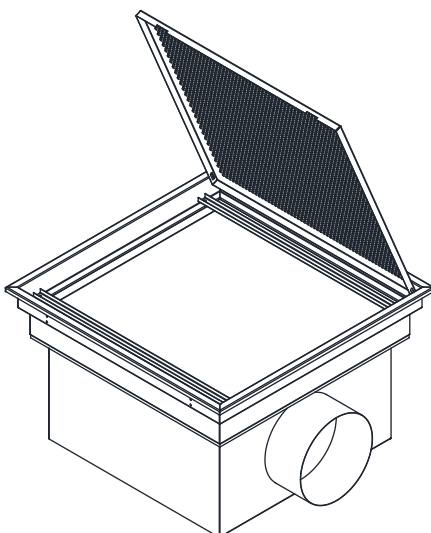
Duct Connection

- Top Inlet
- Side Inlet
- Z Inlet

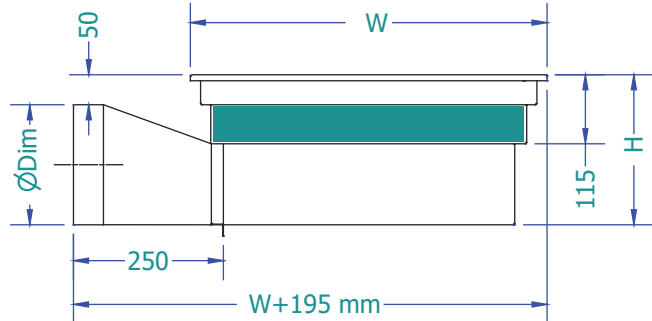
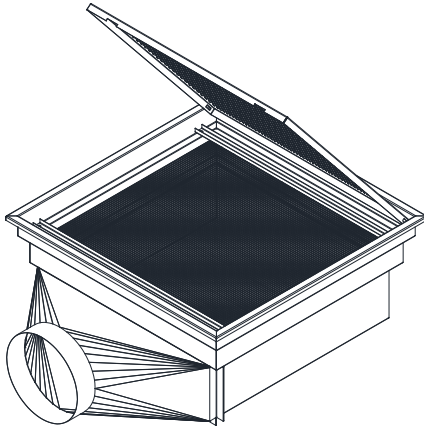
Top Inlet



Side Inlet



Zed Inlet



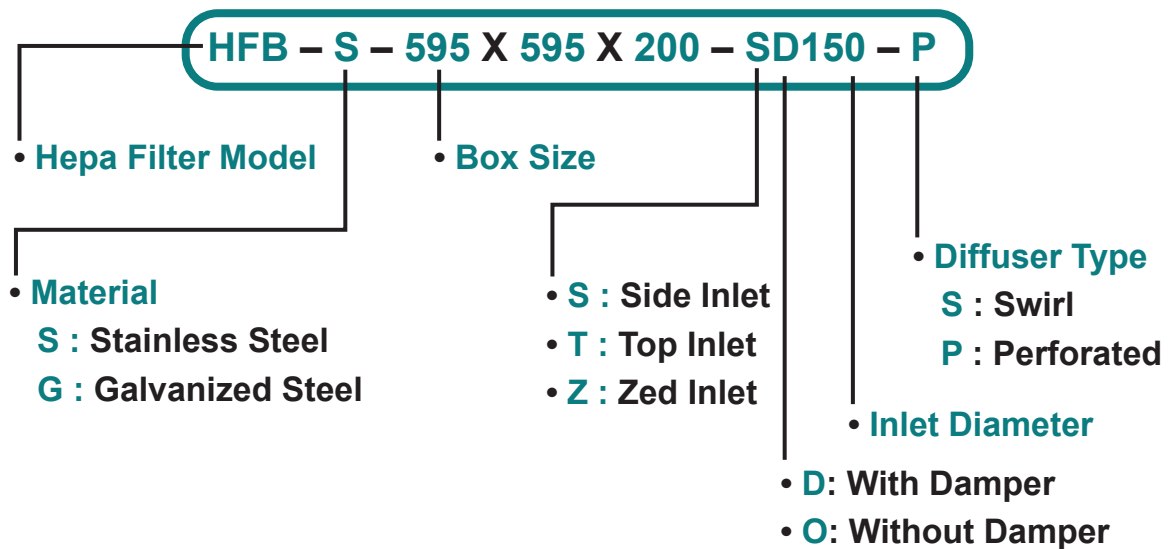
Dimensions

Nominal Size		Filter Size	
W	D	W	D
300	300	215	215
350	350	265	265
400	400	315	315
450	450	365	365
500	500	415	415
550	550	465	465
600	600	515	515

Notes :

- Filter height (65 mm)
- All special and non-standard dimensions are available
- For Side & Z inlet type the box height is relative to inlet diameter

Order Data



Aluminium Frame EPA-HEPA-ULPA Filters

Special Features

Product Code: HF-AN-DP

Frame: Extruded Anodized Aluminium

Filter Media: Micro Glas Fiber

Efficiency (EN1822): E10-H14

Faceguard: Optional

Gasket: Flat EPDM / Endless polyurethane

Bonding Media: Two component polyurethane

Max. Temperature: 80°C



Applications

Final filtration for clean rooms, hoods and units with laminar flow

Advantages

- Minipleat design ensures low resistance to airflow
- Painted aluminium protection grids on both sides
- Very high efficiency with optimum air flow rate
- Different gasket model for leak free installation
- Individual test certificate according to EN 1822

