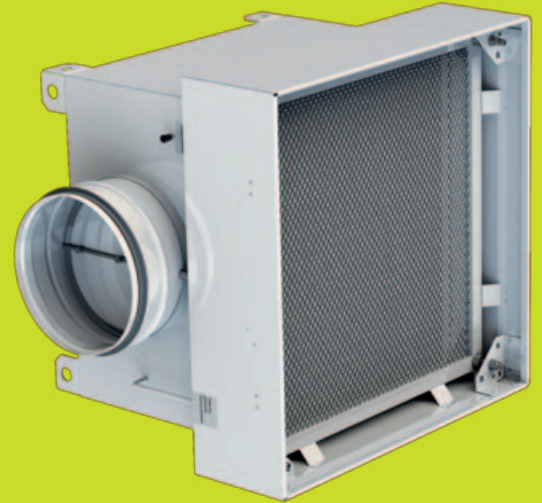


HEPAbox

PLENUM BOX for "cleanrooms"



Plenum box for cleanrooms HEPAbox (hereafter also just the „box“) is intended to be used as the terminal unit of HVAC systems for cleanrooms as hospitals, laboratories, process cleanrooms etc. HEPAbox may be installed either in a false-ceiling, or freely in the room.

The box consists of a container from stainless steel with circular connecting sleeve, filter mounting brackets, channels (tubes) for differential pressure and filter integrity inspection, outlet anemostat or grille, and from an optional manual closing damper. Box surfaces are protected by a special powder paint. The delivery package includes a high-performance HEPA filter with integral PUR gasket, anodized aluminum frame and protection grid from both sides; on customer request, the box may be delivered without the filter.

The box shows the following main features:

- all-welded stainless-steel container for high stiffness, tightness, and reliability
- hygienic design in accordance the most advanced Standards for HVAC system in hospitals
- top performance and quality HEPA filters of AAF brand with very low pressure drop
- low noise emissions
- environment friendly design
- easy installation, commissioning, diagnostics and filter replacement
- optional closing damper easily operated from the inside of the box
- both manual (periodic) and automated (continuous) filter cleanliness detection possible

Specifications:

- square front with the side length of 400, 500, 600, 625 mm
- for frame filters with the frame depth of 34 ... 80 mm
- volume flow rate with the standard delivered HEPA filter up to 1440 m³/h (400 l/s)
- intended for filters with filtration class up to H14
- standard delivered filter of H14 class (HEPA filter) of AAF brand
- pressure in the chambre (end pressure drop) of 500 Pa max
- 6 types of outlet anemostats/grilles offered
- design in accordance with the following general and hygienic Standards:
 - VDI 6022, sheet 1 (01/2018)
 - VDI 3803, sheet 1 (05/2020)
 - ÖNORM H 6021 (08/2016)
 - SWKI VA105-01 (08/2015)
- design in accordance with the following standards for hospitals, medical labs etc.:
 - DIN 1946, part 4 (09/2018)
 - ÖNORM H 6020 (06/2019)
 - SWKI VA104-01 (01/2019)



- compliance assessed by Hygiene-Institut des Ruhrgebiets, SRN, Test Report number W-355575-22-Zd, Certificate from 2022-04-28
- damper of blade tightness class 4 in acc. with EN 1751
- container material and anemostat /grille material reaction to fire class A1



Seamless flange



HEPA filter with protection grille