

AIR FILTER TECHNOLOGY

HEPA FILTER BOX

Introduction

Main demands of the clean room technology and especially in pharmaceutical applications are the air-conditioning and also accordingly the air quality. Air distribution is generally made through the HEPA filter installed to its housing. Therefore, selection and assembling the HEPA filter to its housing without leakage is very important.

HEPA Filter Housing consists of three main parts, which are the box, filter and the diffuser. Box has a duct connection port for air inlet at the top or at the sides. Filters can be chosen according to the room Class from E10 to U17.

All HEPA Filter boxes with test groove system are tested for leakages. Test grooves that face the HEPA filter gasket achieves air tightness according to DIN 1946-4 and ISO 14644-3 Inside of the housing can be easily disinfected and will not be effected from disinfection chemicals.

To track filter working conditions, HEPA boxes have nozzles for differential manometer connections. Test aerosol inlet nozzle is standard for DOP/EMERY Test.

*Please check the fitting of diffuser, box and ceiling before order to provide tightness.

Application

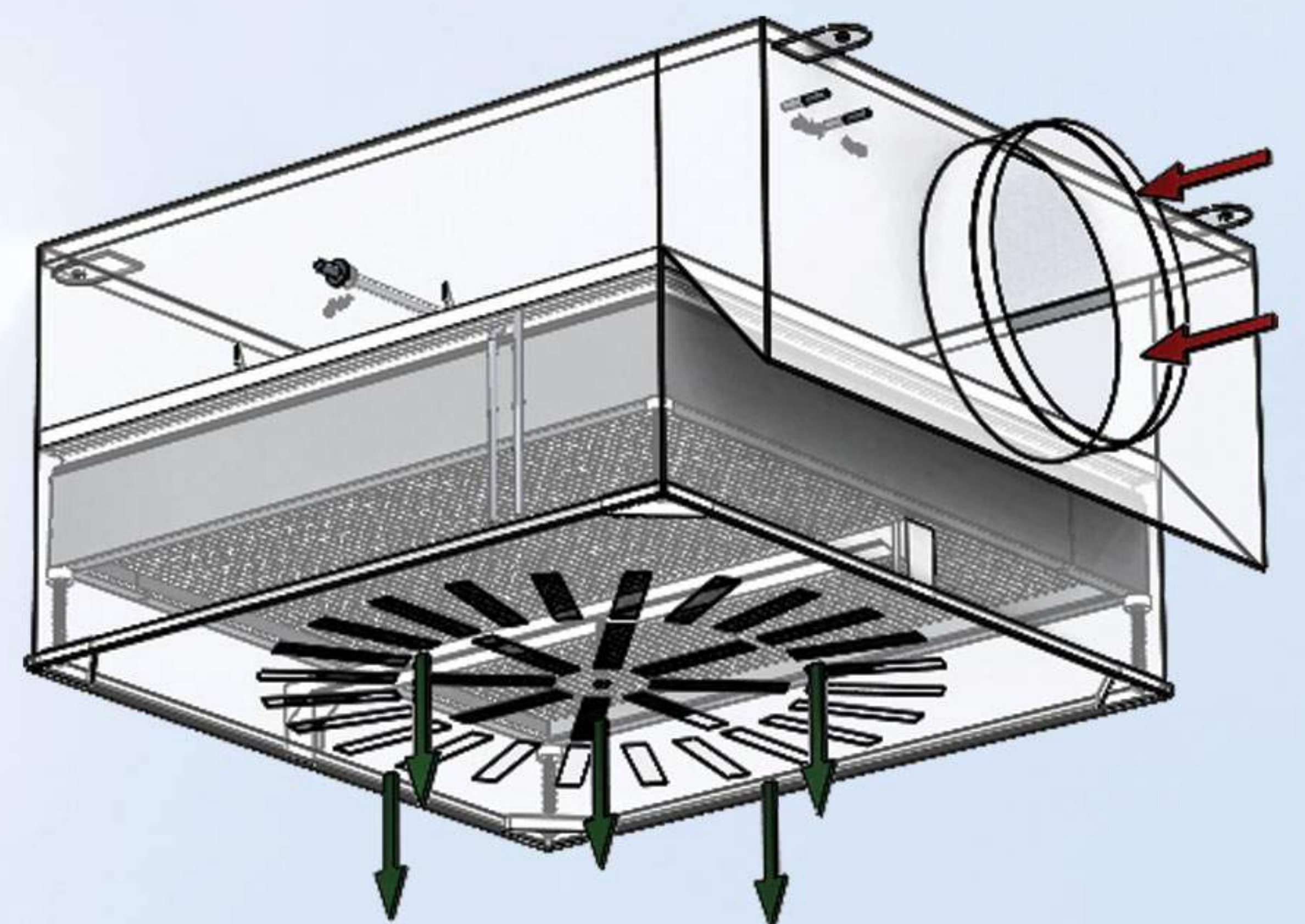
Hospitals ; Operating theatres and operating side rooms, intensive care, isolation areas, sterile zones etc.

Laboratories ; Clean zones and working places, exhaust air filtration of toxic aerosols.

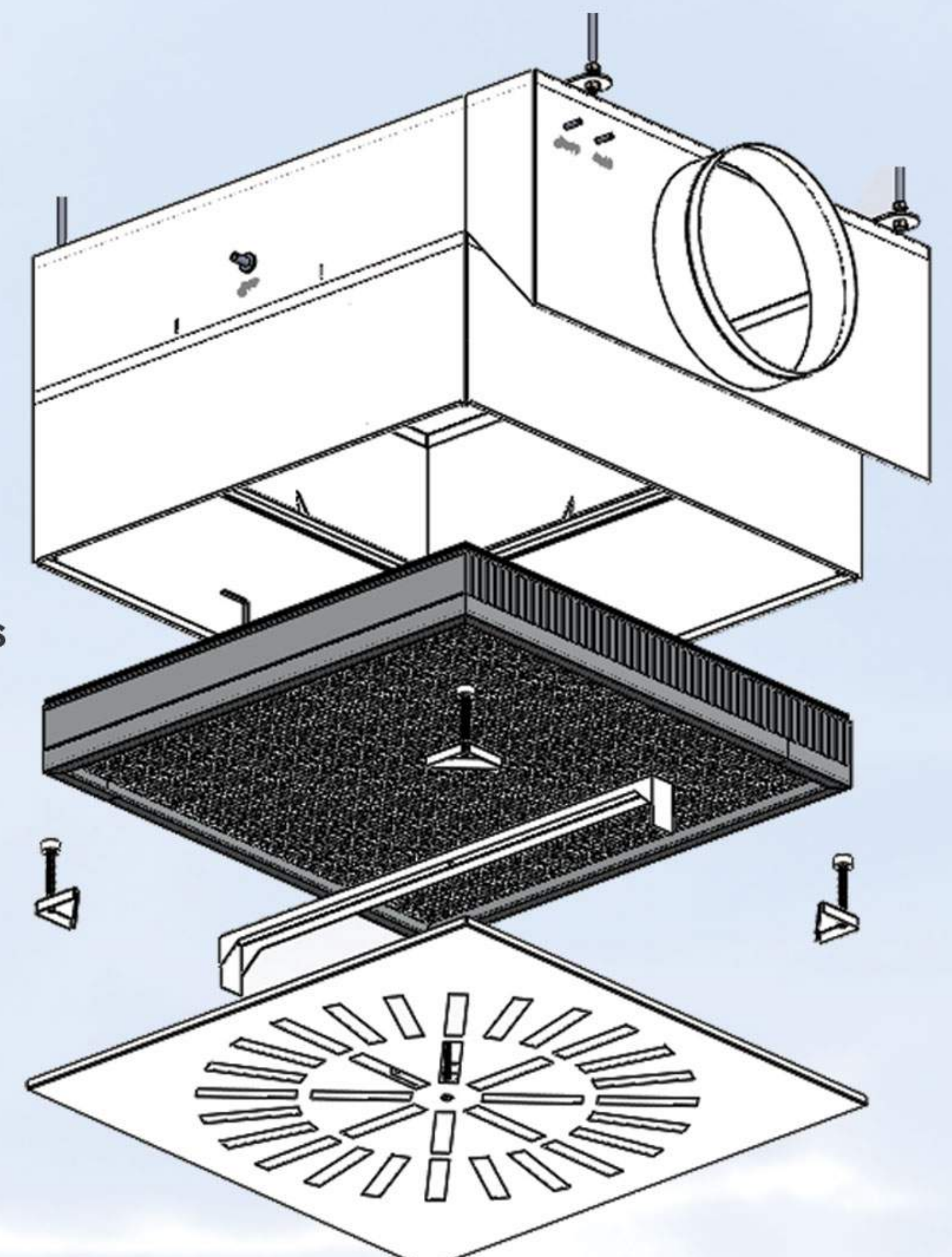
Industry ; Electronic, optical, pharmaceutical, food and chemical industries.

Specifications

- Filter seal-leak test (DIN 1946-4 and ISO 14644-3)
- Test ports for pressure drop, test groove and aerosol injection
- Available air flow adjustment damper fitted to the spigot
- Available in various construction and dimensions
- Simplified maintenance and disinfection
- Easily removable air outlets
- Available powder coated or stainless steel
- Central fixing for diffuser
- Duct Connection Type: Top, side, Z
- Powder coated in any RAL Code
- Special production with low construction height



→ Clean Air
→ Contaminated Air



Box Components

Hinges
Box
Filter
Fastening Clips
Diffuser Hanger
Diffuser



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FILTER

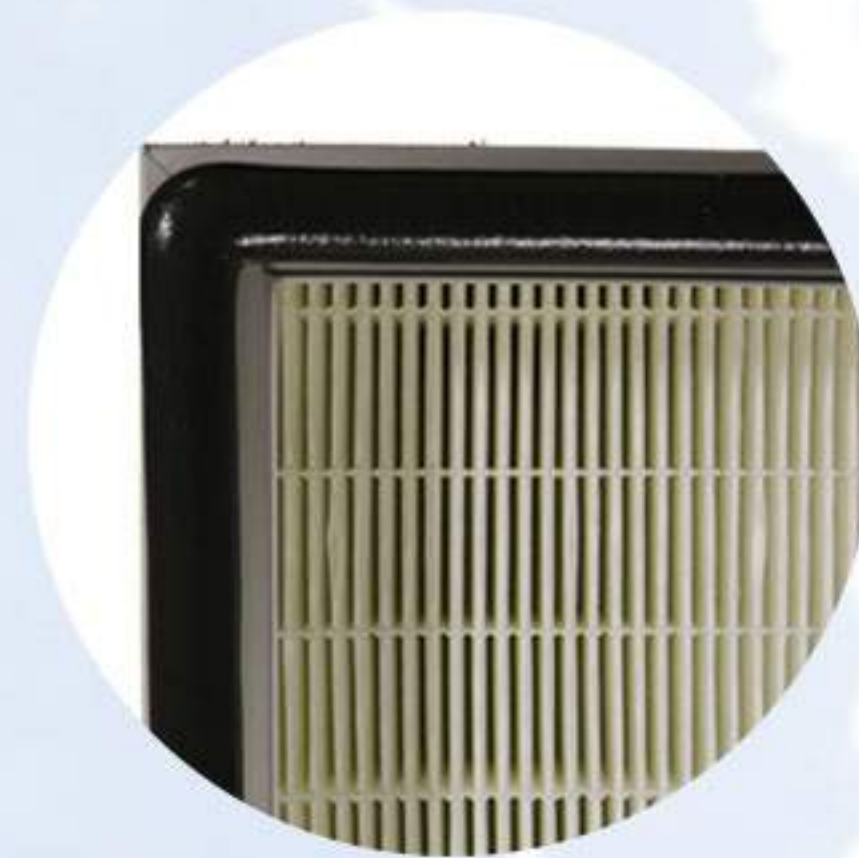
Check the catalogue to select optimal filter to decrease the energy consumption. Check the initial pressure drop from curves according to pleat heights. For rated airflow choosing the optimum pleat height decrease the energy consumption with low initial pressure drop.

Gasket

EPDM Flat, PU Foam or Gel Gasket can be use on Filter



EPDM Flat



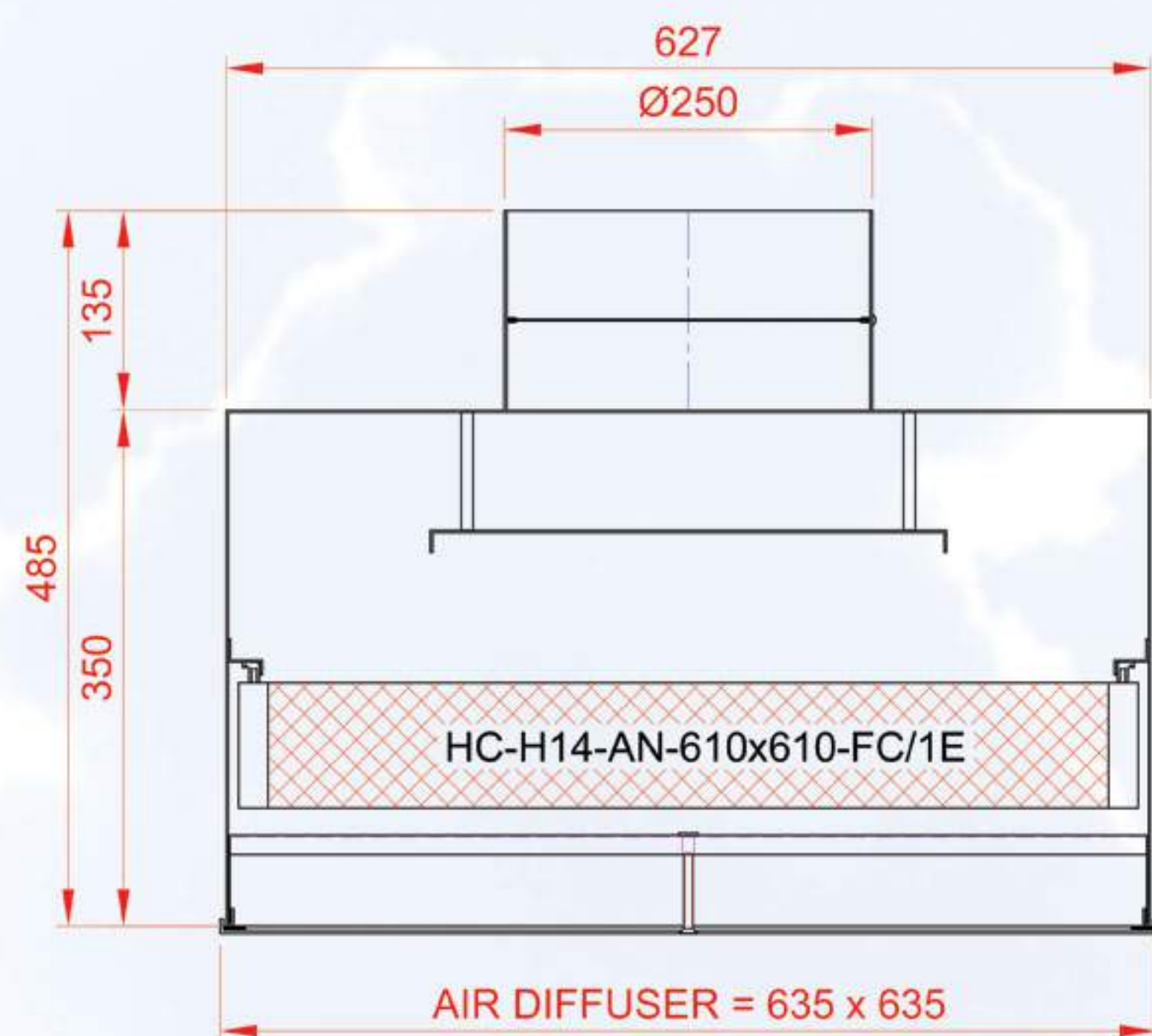
Pu Foam



Gel

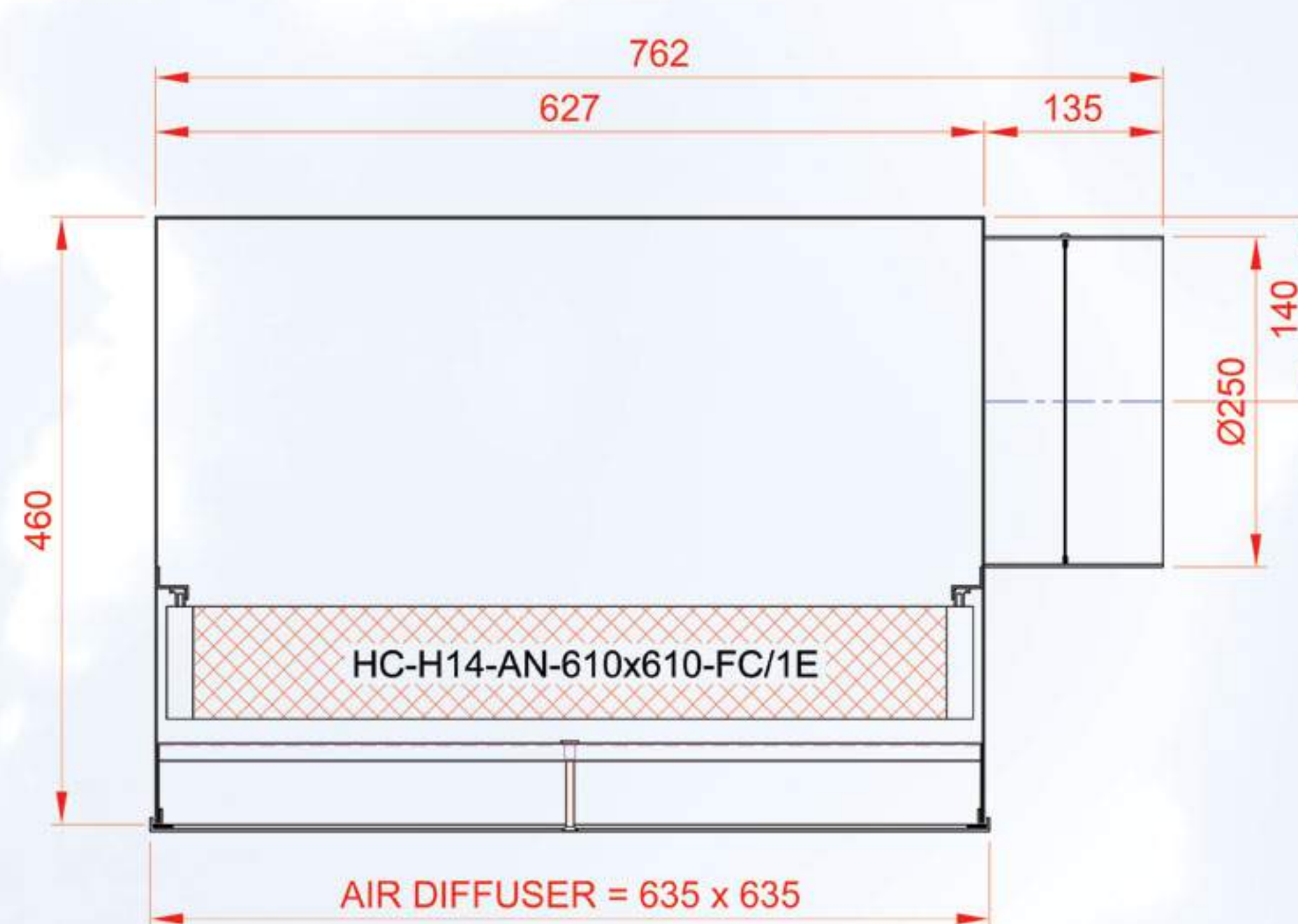
Duct Connection Types

Top Inlet



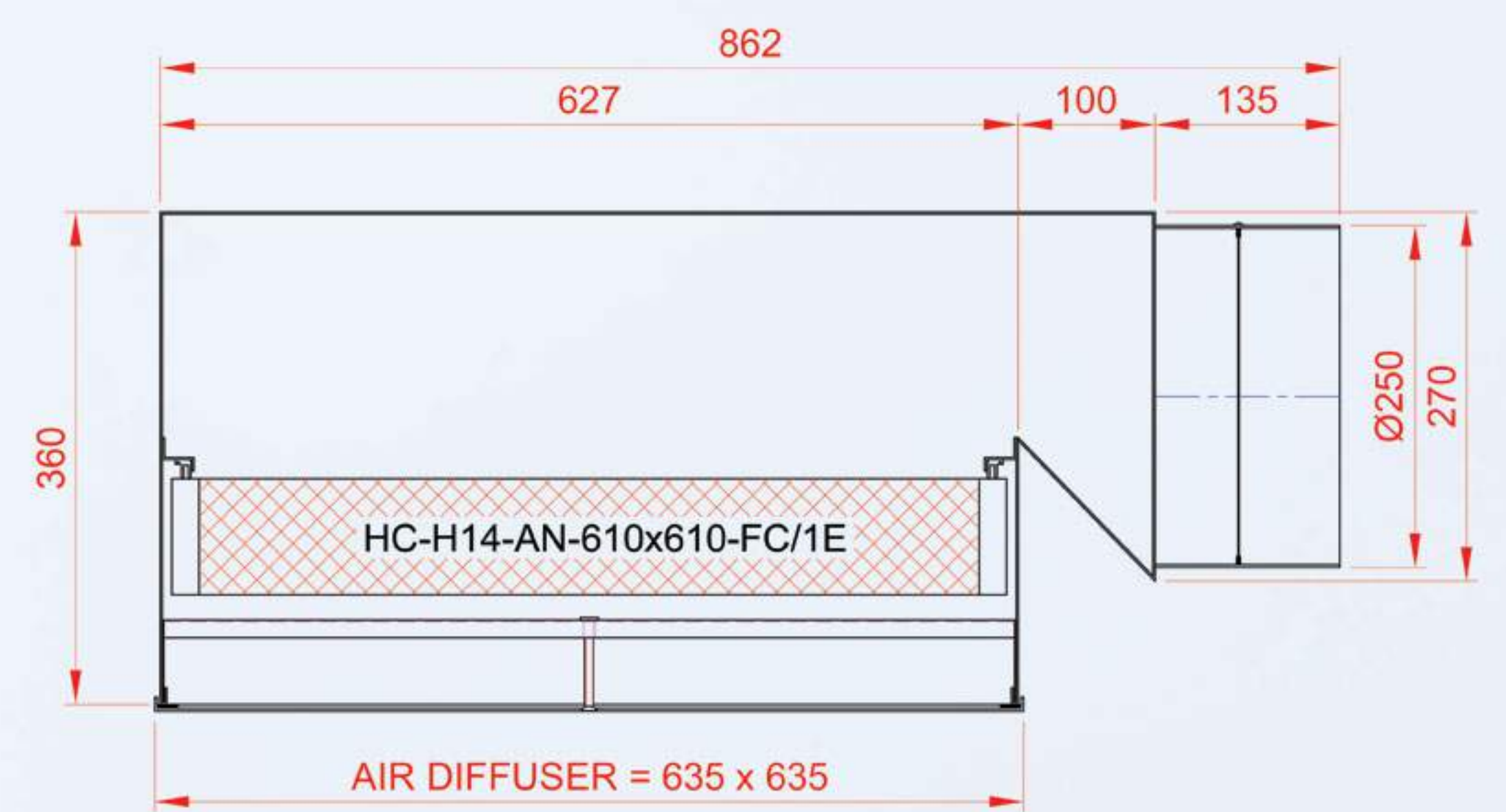
HFB-SX-E1A-627x627x350-TD/S

Side Straight Inlet



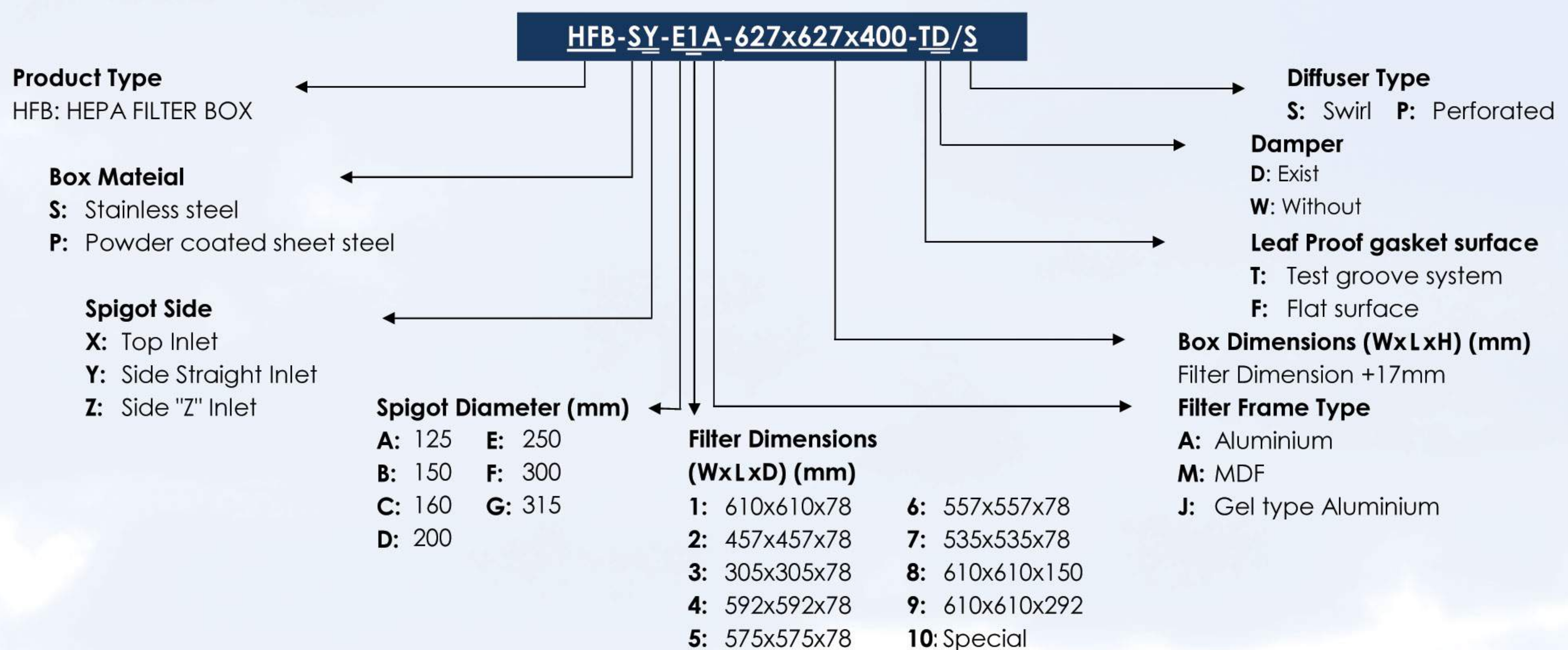
HFB-SY-E1A-627x627x460-TD/S

Z Inlet



HFB-SZ-E1A-627x727x360-TD/S

ULPATEK CODE	Box Dimension			HEPA Filter Dimension			Diffuser Dimension	
	Width mm	Length mm	Height mm	Width mm	Length mm	Height mm	Width mm	Length mm
HFB-SZ-E1A-627x727x400-T/S	627	727	400	610	610	78	650	650
HFB-SY-D2A-474x474x400-T/S	474	474	400	457	457	78	500	500
HFB-SY-C3A-322x322x400-T/S	322	322	400	305	305	78	350	350



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