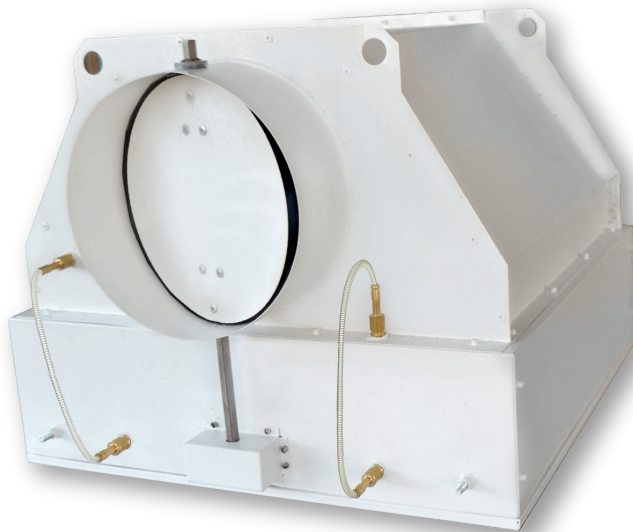


# **Air diffuser HEPA BOX**

## **Technical data sheet**





1. Use.....	2
2. Main technical information.....	2
3. Accessories.....	3
4. Operation.....	4
5. Preparation before operation.....	4
6. Warranty conditions.....	6
7. Claims information.....	6
8. Acceptance certificate.....	7



## 1. Use

This data sheet is a combined operational document for air distributors for HEPA class filters (hereinafter referred to as "HEPA BOX"). It contains information necessary for the correct and safe operation of the HEPA BOX and to maintain them in good condition.

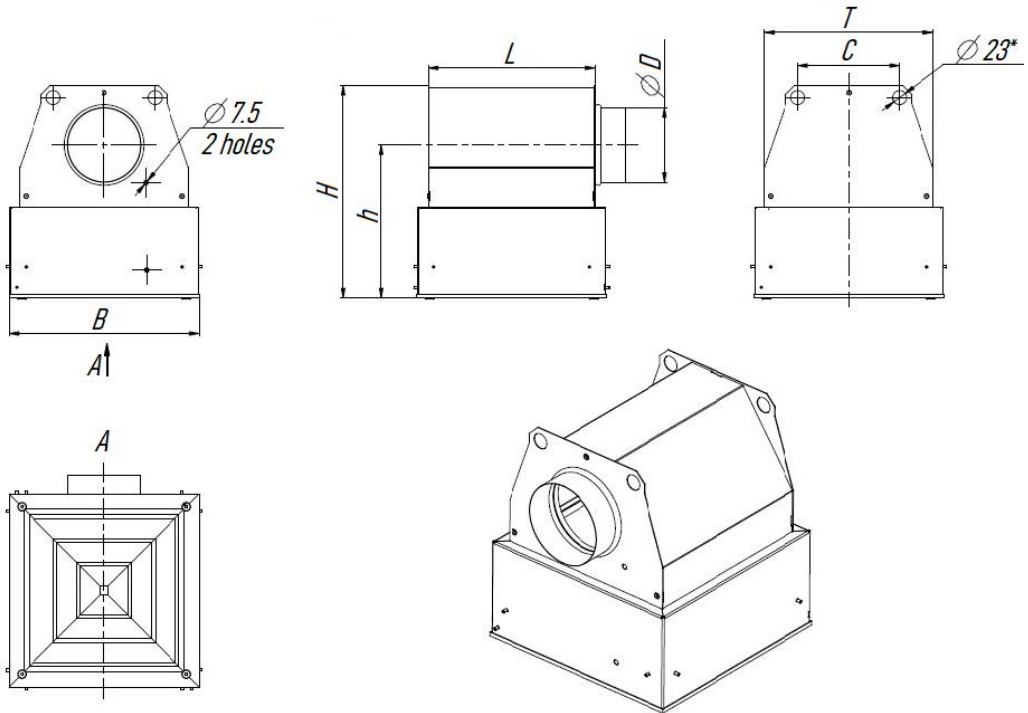
This unit with built-in HEPA filter fulfills the function of the highly effective separation of particle shaped contaminants of all types including microorganisms.

## 2. Main technical information

2.1. Design features of HEPA BOX, their overall and connection dimensions shown in fig. 1 and tab. 1.

2.2. Technical Data of HEPA BOX shown in tab.2.

Fig. 1



**Tab 1**

Ceiling air outlet	Dimentions (mm)						
	B	C	D	H	h	L	T
AHB 318(100)/side	318	170	100	350	250	281	286
AHB 318(125)/side	318	170	125	350	250	281	286
AHB 318(160)/side	318	170	160	350	250	281	286
AHB 470(160)/side	471	308	160	348	245	433	439
AHB 470(200)/side	471	255	200	383	264	433	439
AHB 587(160)/side	588	430	160	348	245	550	554
AHB 587(200)/side	588	372	200	383	264	550	554
AHB 587(250)/side	588	345	250	438	290	550	554
AHB 623(200)/side	624	428	200	387	270	586	593
AHB 623(250)/side	624	428	250	437	292	586	593

**Tab 2**

Filter insert	Filter class	Frame material	Volume flow m <sup>3</sup> /h	Clean filter pressure drop, Pa	Final pressure drop, Pa	Air flow velocity, m/s
305x305x78	E11	galvanized steel	250	150	500	0,75
	H13	galvanized steel	250	250		0,75
	H14	galvanized steel	150	150		0,45
	U15	Aluminum	150	115		0,45
457x457x78	E11	galvanized steel	560	135	500	0,75
	H13	galvanized steel	560	230		0,75
	H14	galvanized steel	330	140		0,45
	U15	Aluminum	340	115		0,45
575x575x78	E11	galvanized steel	890	125	500	0,75
	H13	galvanized steel	890	220		0,75
	H14	galvanized steel	525	130		0,45
	U15	Aluminum	530	115		0,45
610x610x78	E11	galvanized steel	1000	125	500	0,75
	H13	galvanized steel	1000	220		0,75
	H14	galvanized steel	600	125		0,45
	U15	Aluminum	605	115		0,45

**3. Accessories**

Title	Amount
Air outlet unit	1
Installation and operation manual	1

*Spare parts and tools are not included.*

## 4. Operation

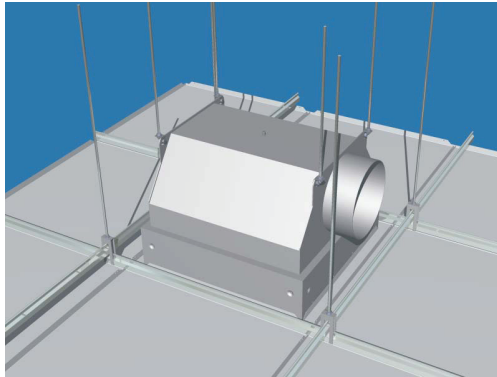
4.1 The filter casing consists of the following components:

- Lateral connector with an integrated shut off flap, with manual or automatic operation (in the delivery a selection with a vertical connector and without a shut off flap is possible);
- Tube for applying test aerosol (measuring of concentration);
- The casing can be provided for HEPA filters of the filter class H13 to U15 with dry seal (PU foamed, flat and U profiled seal) or with fluid seal;
- The fixation of different air diffusors is carried out using 4-point locks; - Measuring probe above with a U-shaped profile;
- Integrated pressure-gauge for monitoring pressure drop (option);

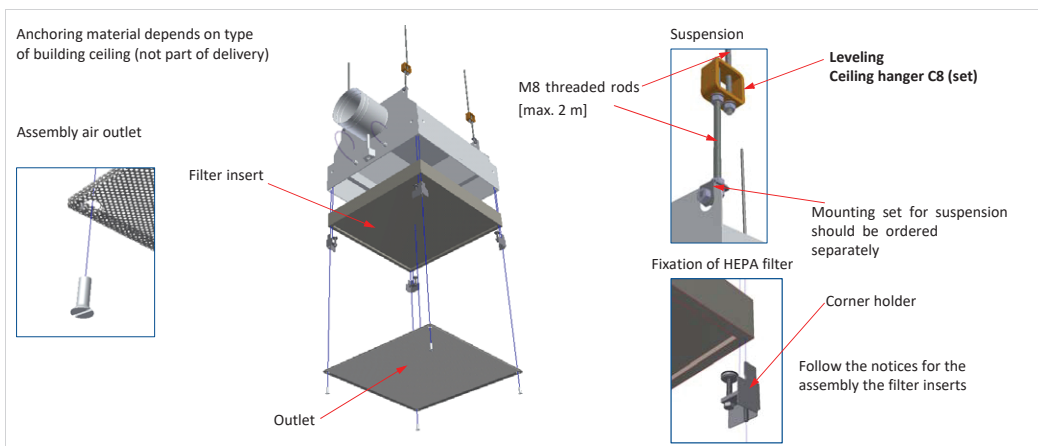
4.2. The main task of HEPA BOX is air flow distribution through built-in HEPA filter, which fulfills the function of the highly effective separation of particle shaped contaminants of all types including microorganisms.

## 5. Preparation before operation

### HEPA BOX on a suspended ceiling

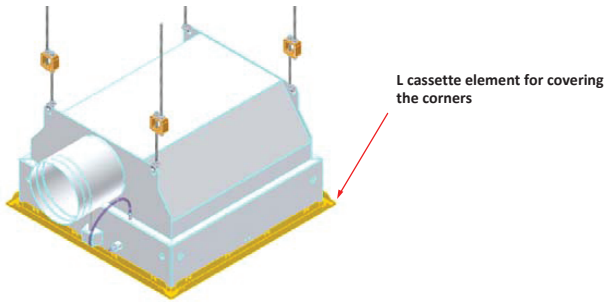


## Installation



## Sample installation

### For light ceilings

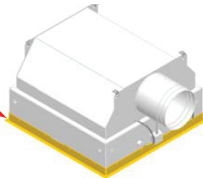


#### Installation:

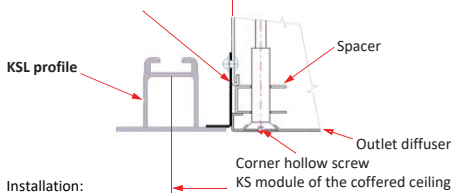
- 1: Strips to rivet HEPA BOX
- 2: Use LS profiles and install grid design
- 3: Prepare four suspension points
- 4: Employ HEPA BOX from the bottom
- 5: Hang up HEPA BOX
- 6: Connect coffered ceiling with the profile
- 7: Adjust position of the anchor
- 8: Sealing division pieces

### For cassette ceiling

Set of L-ledges  
(4 pieces, riveting  
on site)

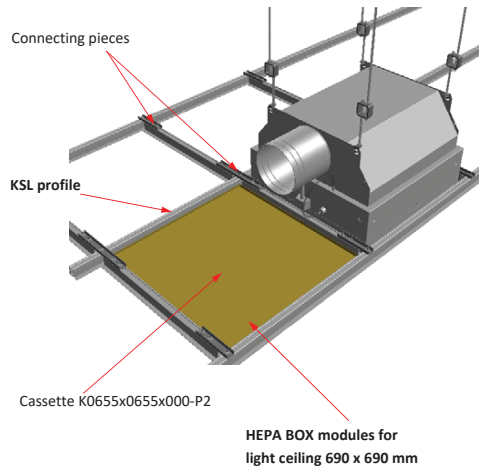


Set of L-ledges, riveting  
on site, from the inside

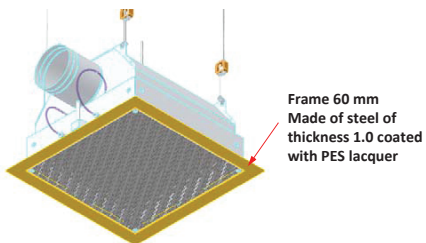


Installation:

- 1: Strips to rivet HEPA BOX
- 2: Use KSL profiles and install grid design
- 3: Prepare four suspension points
- 4: Employ HEPA BOX from above
- 5: Hang up HEPA BOX
- 6: Sealing division pieces

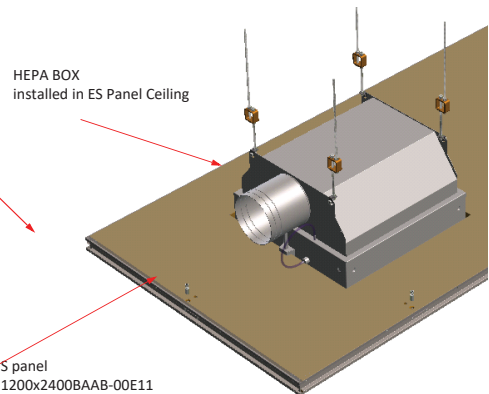


### For panel ceiling (ES)



#### Installation:

- 1: Rivet frame to HEPA BOX
- 2: Cut out rectangular opening in the panel
- 3: Prepare four suspension points
- 4: Employ HEPA BOX from the bottom
- 5: Hang up and arrange HEPA BOX
- 6: Sealing division pieces



## 6. Warranty conditions

The VENTSERVICE Limited Liability Company, hereinafter referred to as the Manufacturer, manufactures the Unit in accordance with the requirements of Technical Specifications TU U 28.2-35851853-002:2013 and the design documentation and ensures that the Unit complies with the requirements of technical documentation providing that the consumer observes the rules of transportation, storage, installation, commissioning and operation during installation and commissioning works performing by a specialized organization having a relevant manufacturer's permission. Warranty obligations are fulfilled under the conditions specified in paragraphs 6.1-6.3

During the warranty period the manufacturer is obliged to eliminate equipment malfunctions of the Unit or its parts and components resulting from factory faults. The basis for consideration of claims for fulfilment of warranty obligations is Claim. The procedure for filing and content of the Claim is specified in section 7. The manufacturer decides whether the components or their defective parts shall be replaced or whether they shall be repaired on site.

The executed warranty service does not increase the warranty period; the warranty on the replaced parts will expire with the expiration of the warranty period of the Unit.

These warranty terms are valid for all agreement for purchase of Manufacturer's Units, unless other terms are specified in these agreements.

### 6.1. Warranty period

The unit warranty period is 36 months from the date of delivery of the equipment to the consumer, but not more than 42 months from the date of production.

The date of transfer of the equipment to the consumer is the date of the expenditure invoice issue by the Distributor.

The service life of the unit is at least 10 years.

### 6.2. The following are not covered by the guarantee:

1. Parts of equipment and maintenance materials subject to normal physical wear (filter, fuses, etc.)
2. Unit damage, resulting from:
  - a) ingress of foreign objects or liquids;
  - b) natural phenomena;  
environmental exposure;
  - c) animal activities;
  - d) unauthorized access to the assembly units and parts of the Unit by persons not authorized to carry out the specified actions;
  - f) mechanical damage and breakage due to non-compliance with the installation and operation instructions.
3. Various modifications, changes in the operation parameters, processing, repairs and replacement of parts of the Unit performed without the consent of the Manufacturer or the Distributor.
4. Damage caused by idle time during the period of waiting for warranty service and any damage to the Customer's property, other than the Manufacturer's Unit, will not be compensated.

### 6.3. Warranty services

Work under this warranty shall be performed within 14 days from the date of the claim submission. This period shall be extended in exceptional cases, particularly in cases when more time is required for delivery of parts, or if the service cannot be performed on site.

2. Parts dismantled from the Unit by service workers during the warranty repair and replaced with new ones are the property of the Manufacturer.
3. Costs arising from unjustified claims or due to interruptions in service at the request of the claimant shall be borne by the claimant. Repair services shall be evaluated in accordance with the services rates established by the Distributor or the Manufacturer.
4. The Manufacturer has the right to refuse to perform warranty services or maintenance if the customer delays payment for the equipment or for previous service work.
5. The Customer shall help the service workers when carrying out repair work on site by means of:
  - a) providing access to the Unit and to the relevant documents at the appropriate time.
  - b) ensuring protection of the service team and its property, as well as compliance with all health and safety requirements on site.
  - c) creating conditions for instant commencement of work immediately upon the arrival of service workers and performance of work without any obstacles.
  - d) providing free necessary assistance for work (for example, supplying elevators and free sources of electricity).
6. The Customer is obliged to accept the completed warranty services immediately on their fulfilment and to confirm it in writing in the certificate of completion, the copy of which he receives.
7. The warranty shall not be maintained in case the service has not been conducted in accordance with the regulations for operation of this type of product.

**7. Claims information**

Acceptance of products shall be carried out by the consumer according to the "Instructions on the procedure for quality acceptance of products for industrial purposes and consumer goods".

Upon detection of a quality inconsistency, the consumer shall send a Claim to the Distributor, which is the cause for resolving the issue of validity of the provided claim. A list of Distributors and their contact information is available at [www.aerostar-vent.com](http://www.aerostar-vent.com).

The Distributor shall be provided with written Claims. Claims may be submitted by fax or e-mail.

The Claim shall contain type, factory number, expenditure invoice number and Unit delivery date, as well as Unit location, telephone numbers and full name of the person in charge.

The Claim shall also contain a description of installation problems, as well as the titles of the damaged parts (if possible).

If the Customer violates the rules of transportation, acceptance, storage, installation and operation, no quality claims are accepted.

**8. Acceptance certificate**

The HEPA BOX \_\_\_\_\_ manufactured in accordance with the Order \_\_\_\_\_.

It has passed acceptance tests. Based on the results, it meets the requirements of technical specification TU U 28.2-35851853-002:2013 and is considered to be operational.







ООО «Вент-Сервис»  
г.Киев, проспект Отрадный, 95-А2  
Телефон: 0 (44) 594-71-08  
Факс: 0 (44) 594-71-08  
E-mail: [office@ventservice.com.ua](mailto:office@ventservice.com.ua)  
[www.ventservice.com.ua](http://www.ventservice.com.ua)