

# AERIAL HF2 Series High Performance HEPA Filter Instruction Manual

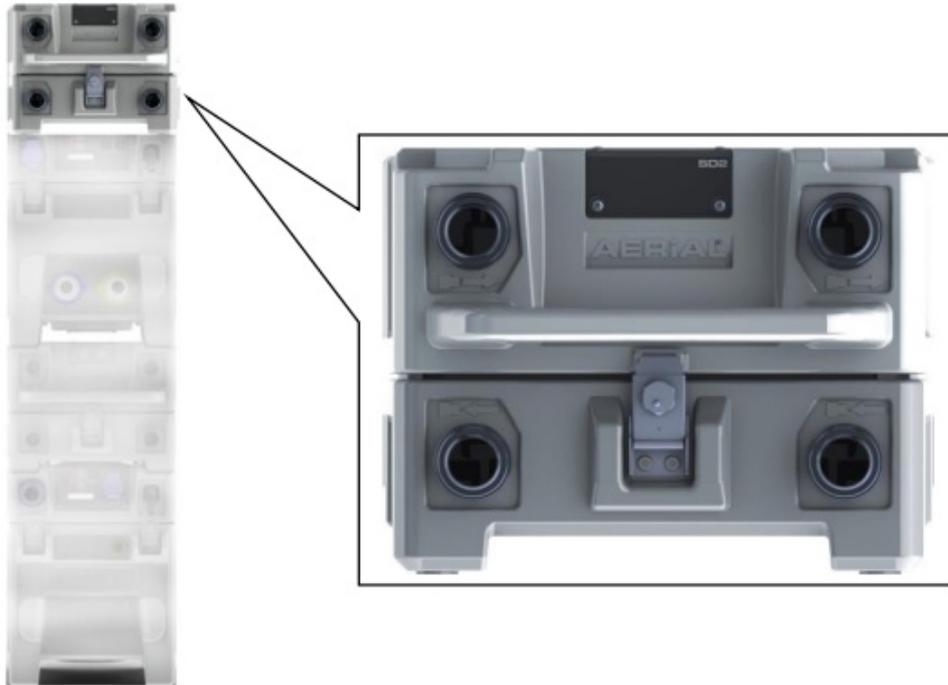
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**AERIAL**<sup>®</sup>

**AERIAL HF2 Series High Performance HEPA Filter**



This instruction manual shall not be reproduced, copied and distributed, neither in parts nor completely, without the manufacturer's written permit. All rights reserved. The instruction manual is based on the technical and product-specific parameters. The manufacturer reserves the right to add supplementary information to the instruction manual. Using a device outside the specified conditions and contrary to its designated use will lead to the forfeiture of all warranty claims.

### **Notes on this instruction manual**

This instruction manual is part of the product. It contains all important information on how to transport, install, operate, store and dispose of the device from AERIAL properly and safely. Therefore keep this instruction manual in a safe place.

### **Target groups**

This instruction manual addresses the users and operators of the devices manufactured by AERIAL. They must have read and understood the instruction manual. The physical and psychological preconditions for proper and safety-conscious handling of the devices must always be guaranteed.

### **Conventions**

### **Warnings**

In this instruction manual you will find information intended to warn you of possible hazards at the beginning of a specific action.

### **DANGER**

This symbol in connection with the signal word "DANGER" refers to a life-threatening situation. Failure to observe this warning will result in serious, fatal injury. This arrow marks precise steps to avert danger which must always be performed.

### **WARNING**

This symbol in connection with the signal word "WARNING" refers to a dangerous situation. Failure to observe this warning can result in life-threatening injury and death. This arrow marks precise steps to avert danger that must be performed.

### **CAUTION**

This symbol in connection with the word "CAUTION" warns of minor or moderate injury and potential material damage. Measures to prevent personal injury or material damage are described here.

### **Designated use**

The sound absorber SD2 is intended to be used as additional equipment to minimise the noise of side channel compressors and noise boxes during drying of the screed insulation layer using a vacuum technique. The sound absorber SD2 is designed exclusively for use at atmospheric pressure. Operating the adsorption dryers within the limits of designated use also involves observing the specified operating conditions (refer to page66). Any use of the device going beyond the designated use specified above is considered contrary to its designated use. Misuse is concerned if the sound absorber SD2 is used for purposes not included in designated use. In these cases the manufacturer does not assume any liability for personal and material damage.

## **Safety**

### **Safety devices**

The sound absorber SD2 was subjected to thorough safety testing. Improper operation or misuse will cause danger to

- the operator,
- the machine and other material property of the user,
- efficient operation of the machine.

All persons involved in the installation, commissioning, operation, maintenance and servicing of the devices must

- be properly qualified,
- closely observe the instructions set out in this manual.

### **Hazards from accessories**

Air hoses and air filters must be properly installed, and must not disable the protection devices of the SD2. The operating elements must always be accessible.

### **Authorized operator**

The sound absorber SD2 may only be operated by persons commissioned and instructed by the user. In the working area the operator is responsible to third parties. For all activities on the device the responsibilities must be clearly defined and observed. Unclear competencies are a safety risk.

### **User**

The user must

- make the instruction manual accessible to the operator,
- make sure that the operator has read and understood the instruction manual.

### **Safety instructions**

The devices must not be used under the following conditions:

- in rooms with potentially explosive atmospheres
- in rooms with aggressive atmospheres, e.g. ammonia, wood acids.
- in rooms with water with a pH value outside the range from 4 to 9.
- In rooms with salt or liquids with a salt content > 1%.
- in rooms with high solvent concentration

- in rooms with extreme dust load

In addition the following must be observed when using the sound absorber SD2:

- Original spare parts or spare parts approved by the manufacturer shall exclusively be used.

## Construction



Fig. 1: AERIAL sound absorber series SD2 – overview

1. Outlet side connection pipe  $\text{Ø}38/\text{Ø}50$  mm or  $\text{Ø}50$  pipe
2. Intake side connection pipe  $\text{Ø}38/\text{Ø}50$  or  $\text{Ø}50$  pipe
3. Tension lock  
not shown: screw cap

Optionally the sound absorber SD2 is provided with an integrated, exchangeable active carbon filter. It has no separate fan, and is used

## Transport and installation

### Transport

1. Remove the packaging material completely and dispose of it according to the local regulations.
2. Check the delivery for completeness.
3. Use the handle in the cover or the two handle recesses in the bottom to transport the sound absorber SD2 to the place of installation.

### Scope of delivery

- Sound absorber SD2 (4x tube connector, 2x screw cap, 6x gasket)
- One instruction manual

## Operating conditions

The sound absorber SD2 is designed for use with a side-channel compressor or the noise box VP2/VP3 as additional equipment to minimize the noise during the drying of the screed insulation layer using a vacuum technique. It works without problems in the temperature range from -10 °C to +40 °C.



Fig. 2: Fixing points for belt system

### **Installation**

The devices can be stacked, and are provided with fixing points for a belt system on the right and left.

### **Operation and operator control**

#### **CAUTION**

**The danger of injury and damage to appliance** Inadmissible ambient conditions and improper operation of the device may constitute a risk. Read the instruction manual before commissioning the sound absorber SD2.

**In the vacuum mode:** Connect the pressure connection of the side channel compressor or of a noise box (VP2/VP3) via a hose with the connection on the intake side (see fig. 1.2). Optionally you can insert an active carbon filter into the sound absorber for neutralizing the odor. **In the pressure mode:** Connect the suction connection of the side channel compressor or of a noise box (VP2/VP3) via a hose with the connection on the outlet side (see fig. 1.1). Optionally you can insert an air filter into the sound absorber to protect the side channel compressor from soiling.

### **Maintenance and service**

#### **Filter change**

#### **CAUTION**

Damage to the device Cleaning agents can cause damage to surfaces. Use only mild detergents.

The cleaning intervals depend largely on the operating conditions. Therefore check your sound absorber SD2 after each drying operation. In order to guarantee trouble-free functioning of the device it must be regularly cleaned, and in particular the active carbon filter or air filter must be checked at regular intervals. Proceed as follows:



Fig. 3: Active carbon filter with knurled screws



Fig. 4: Changing the active carbon filter

- The active carbon filter is fixed with knurled screws (see arrows). Loosen and remove knurled screws, as required.
- Remove and exchange active carbon filter (see fig. 4).
- Insert new active carbon filter or air filter. Use only original filters to guarantee proper functioning of the sound absorber SD2.
- Clean casing on the outside with a moist cloth.

## Troubleshooting

### Storage

Store the sound absorber SD2 in conformity with the specified safety instructions (see page 4).

### Disposal

Please do not dispose of this device with domestic waste. Dispose of the device in accordance with the legal regulations.

## Specifications

General data		
Operating conditions	-10 °C to +40 °C	

Type	Unit	SD2
Air circulation rate	cbm/h	up to 300
Dimensions H x W x D	mm	300/390/490
Weight	kg	6

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## Documents / Resources

	<p><a href="#">AERIAL HF2 Series High Performance HEPA Filter</a> [pdf] Instruction Manual HF2 Series, High Performance HEPA Filter</p>
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## References

- [DG AERIAL dehumidifier, building dehumidifiers, drying technology](#)

[Manuals+](#)