

# Instruction manual

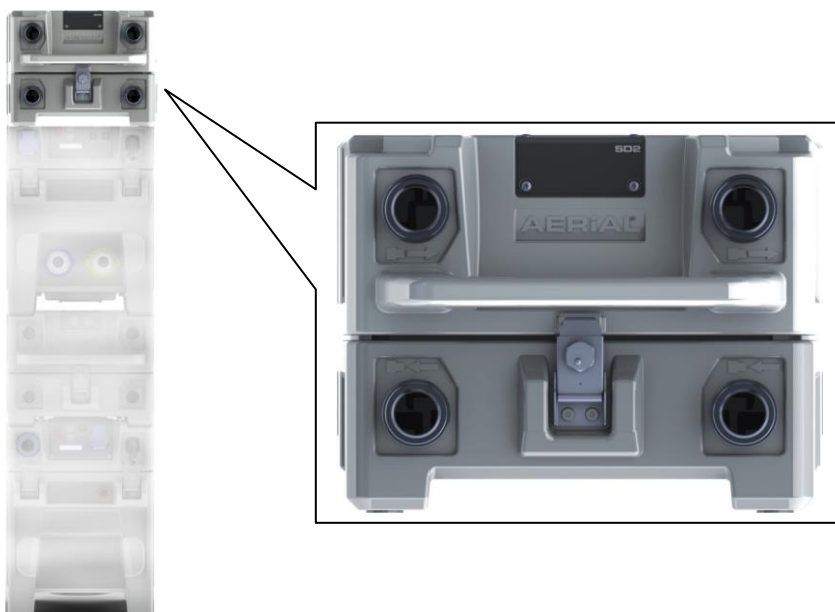
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## Sound Absorber

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### Series SD2

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This instruction manual shall not be reproduced, copied and distributed, neither in parts nor completely, without the manufacturer's written permit.

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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.

As of: 01\_2016

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### 1 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.



##### Type and source of hazard

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.



##### Type and source of hazard

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 which must be performed.



##### Type and source of hazard

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.



In this box you find tips and information concerning the use of the device.

### 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 page 66). 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.

## 2 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.

### Authorised 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 competences 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.

### 3 Construction

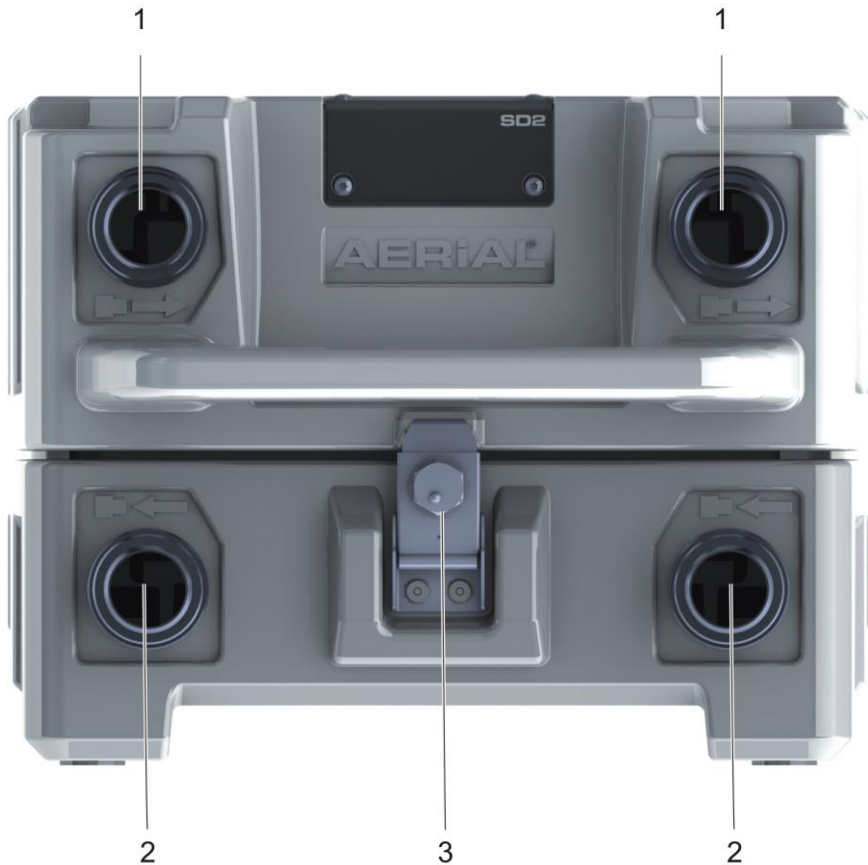


Fig. 1: AERIAL sound absorber series SD2 - overview

1	Outlet side connection pipe Ø38/Ø50 mm or Ø50 pipe	3	Tension lock
2	Intake side connection pipe Ø38/Ø50 or Ø50 pipe		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 exclusively in connection with a side channel compressor, the noise box VP2/VP3 or a similar device.



### 4 Transport and installation

#### Transport

1. Remove the packaging material completely and dispose of 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 minimise the noise during drying of the screed insulation layer using a vacuum technique. It works without problems in the temperature range from -10 °C to +40 °C.



#### Installation

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

Fig. 2: Fixing points for belt system

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### 5 Operation and operator control



#### **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 neutralising the odour.

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.

### 6 Maintenance and service

#### Filter change



#### **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:

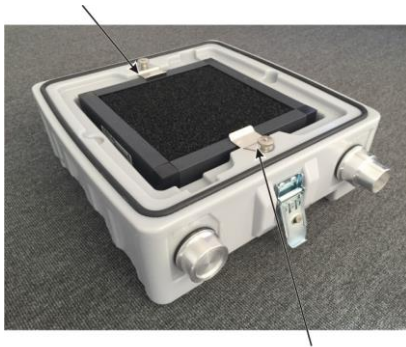


Fig. 3: Active carbon filter with knurled screws



Fig. 4: Changing the active carbon filter

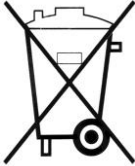
- The active carbon filter is fixed with knurled screws (see arrows). Loosen and remove knurled screws, as required.
- Remove and exchange active carbon filter (see fig. 4).
- Insert new active carbon filter or air filter. Use only original filters to guarantee proper functioning of the sound absorber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

## 7 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 the domestic waste. Dispose of the device in accordance with the legal regulations.

## 8 Specifications

### General data

Operating conditions	-10 °C to +40 °C
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Type	Unit	SD2
Air circulation rate	cbm/h	up to 300
Dimensions H x W x D	mm	300/390/490
Weight	kg	6

Dealer stamp:



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