



Operating instructions

(Translation of the original operating instructions)

Extension set

**Active carbon cartridges for Filtercube 4
into separate housing**

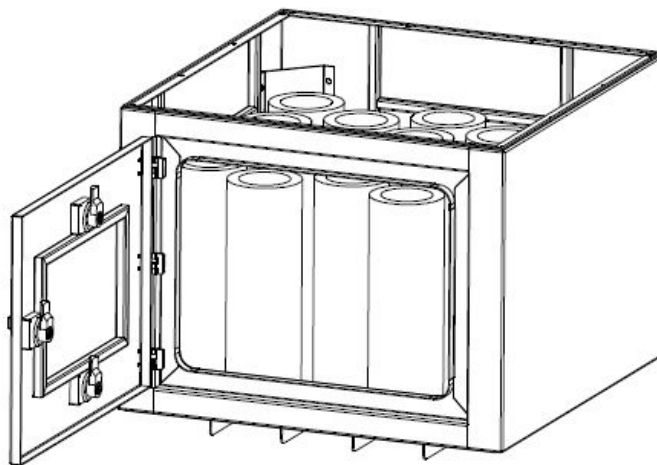



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1. General

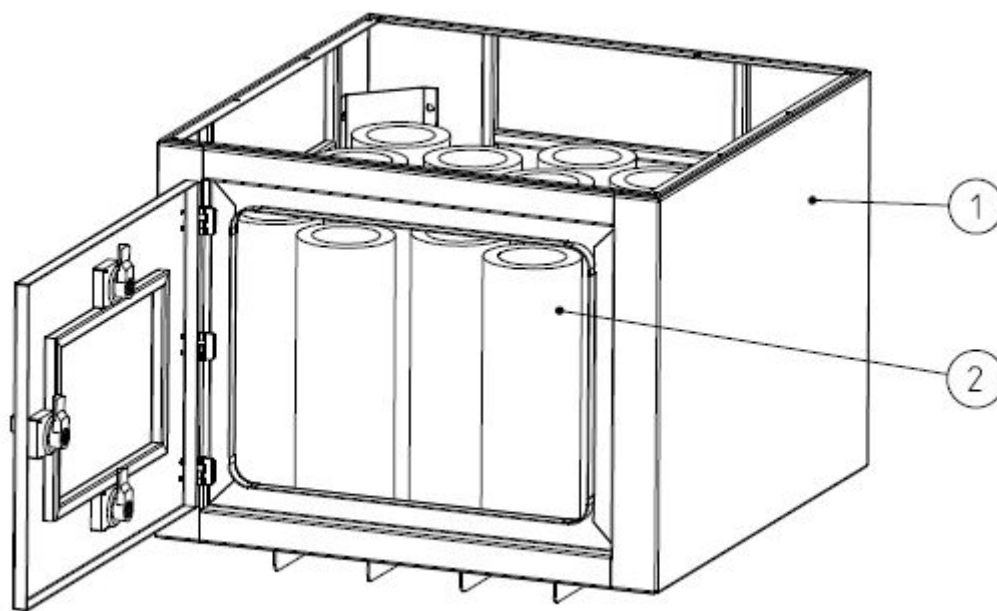
Congratulations on purchasing the product from TEKA.

Our engineers ensure that our devices reflect the state of the art through continuous development. Nevertheless, misuse or misconduct can endanger your safety. Please observe the following for a successful use of the device:

	<p>Only authorised and instructed personnel can carry out transport, operation, maintenance and repair of the device. The operator must ensure that the operating personnel take note of these instructions.</p> <p>Please read these instructions before operating the device, and observe the safety precautions to avoid injury!</p> <p>Store this manual in a safe place! These instructions are to be regarded as a component of the product!</p> <p>Adhere to all product notes!</p> <p>Modifications or conversions that the operator carries out at the device without the consent of the manufacturer, can lead to new safety hazards or to the loss of warranty claims.</p> <p>Observe the manufacturer's instructions. Contact the manufacturer in case of any uncertainty: Tel: +49 2863-9282-0 E-mail: info@teka.eu</p>
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2. Description of the system elements

2.1. Illustration of the system elements



Z.Nr. 15213703

Pos.1	Activated carbon housing
Pos.2	Activated carbon cartridge

2.2. Intended use


The active carbon extension set is an optional upgrade for filter systems of the type "Filtercube 4". The housing unit is usually already installed in the filter system, between the pneumatic housing and ventilator housing. Please refer here to the separate instruction manual for the filter system "Filtercube 4". The filter system is mainly used for the extraction and filtering of dust and fumes.


The air extracted by the filter system ends up in the housing unit of the active carbon. The active carbon cartridges capture any resulting odours. The purified air is passed on by the ventilator and returned outside or to the work space.


3. Safety instructions


3.1. Definition of the hazard symbols

The device is constructed according to the state of the art and the recognised safety regulations. Nevertheless, during use threats to life and limb of the user or other persons may arise. The impairment of the machine or other property are also possible. In these instructions we warn by using corresponding indications.


	WARNING WARNING These instructions are made in case of risks that can lead to <u>injury or death</u> .
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	CAUTION CAUTION These instructions are made in case of risks that can lead to <u>injury</u> .
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	NOTICE NOTICE These instructions are made in case of risks that can lead to <u>material damages</u> .
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	Information notes are no hazard warnings; they call attention to useful information.
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3.2. General safety instructions

	WARNING Dangers arising from improper use / unauthorised operations. The operator must ensure that their authorised personnel are familiar with all the safety indications in this manual in advance. The operator is responsible for ensuring that all work is carried out by authorised and qualified personnel. Laymen are allowed to operate the device after having received the necessary instructions. But they are not allowed to carry out any installation, repair or maintenance work.
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4. Commissioning



WARNING


Dangers arising from a defective condition of the unit.

Make sure that the measures described in this chapter are completed before the commissioning of the unit. All doors of the unit must be closed and all necessary connections must be attached before turning the unit on. Do not operate the unit if any components are defective, missing or damaged. Check the orderly condition of the unit before switching it on. The unit must not be operated without a filter element.

The activated carbon cartridges are supplied loose and must be installed in the housing prior to commissioning. The procedure is described in the chapter "Replacing the activated carbon cartridge".


5. Maintenance



In accordance with national regulations, the operator is obliged to carry out repeat and functional tests. Unless otherwise specified by national regulations, we recommend regular visual inspections and functional tests of the device as described in the chapter “Maintenance intervals”.


 You find the chapter “Maintenance intervals” at the end of the document. The general maintenance (visual inspection, etc.) is also explained there.

In the chapter “Maintenance intervals” there is information on the maintenance intervals of the filter elements. But these are only recommendations. Depending on the application (multi-shift operation, dust generation, ...) it may be necessary for the operator to change the maintenance intervals.

In this chapter the maintenance work which is caused by wear caused during operation is described.

	WARNING
	<p>Work on the open system entails the risk of electrical shock or accidental restart the system. Both pose a danger to life and limb.</p> <p>When cleaning and servicing equipment during the replacement of parts or when changing to another function, set the device to maintenance condition first (see chapter “Reset to maintenance state”).</p> <p>A recommissioning of the device must only occur if it is ensured that the device is functionally equivalent to the original state.</p>

	CAUTION	
	<p>Hazards to the respiratory tracts are possible.</p> <p>All maintenance work must only be carried out in well-ventilated rooms and while wearing an appropriate respiratory mask! We recommend: respiratory protection half mask DIN EN 141/143 protection level P3. For all maintenance work ensure a cautious handling of filter elements and components in order to avoid whirling up dust.</p>	

 The operator is obliged to store and dispose of the collected dust in accordance with national or regional regulations. For all maintenance or cleaning work please refer to the applying environmental regulations. Pollutants and filter elements must be disposed of or stored according to the regulations as well. If you have any doubts, we recommend contacting a disposal contractor in your area.


5.1. Reset to maintenance state

- Set the filter unit in which the extension set is built in to maintenance state. Please refer to the instructions in the operating manual of the filter unit.

5.2. Replacing the activated carbon / the activated carbon cartridge

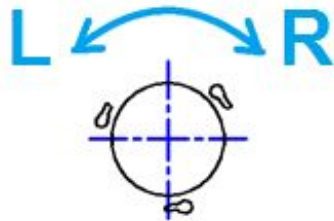
The activated carbon absorbs gases and unpleasant odours. The activated carbon has to be replaced as soon as gases appear on the clean air side.

However, at the latest when the main filter of the device is replaced, the activated carbon should be replaced as well. Because the pollution of the activated carbon reduces the (entire) extraction capacity of the filter unit.

 The saturation degree of the activated carbon is not monitored.

Therefore, replace the activated carbon in the cartridges. Alternatively, you can replace the entire cartridges.


- Open the service door of the activated carbon housing (see chapter 2.1).
- The activated carbon cartridges are inserted into the housing base. Each activated carbon cartridge is removable by turning in the “L” direction.






- Check if the seals of the cartridges are in perfect condition. Replace them, if necessary, see list of spare parts. (This step is omitted if the entire cartridges are replaced.)
- Detach the lid of the activated carbon cartridges and carefully empty the activated carbon. The used activated carbon must be put into an appropriate container and be disposed of. (This step is omitted if the entire cartridges are replaced. In this case the old cartridges have to be disposed of as a whole.)
- The new activated carbon must be carefully filled into the emptied cartridges. Each cartridge must be reclosed with the lid. (This step is omitted if the entire cartridges are replaced.)
NOTICE Only use TEKA spare filters. Otherwise the proper functioning of the unit is not guaranteed.
- The activated carbon cartridges must be put with the sealing surface on the bottom of the insert housing. The 3 studs of the cartridge must be placed into the drilled holes. The cartridge is fixed by turning in the “R” direction.
- Close the service door.

6. Dismantling / Disposal

Only authorised personnel may disassemble the machine.

	WARNING
	<p>Dangers arising from electricity. Before the dismantling of the machine it has to be disconnected from the power supply and all supply lines.</p>

	CAUTION	
	<p>Whirling up dust is possible due to the deposited dust. During all work a suitable respiratory protection and protective clothing have to be worn.</p>	
		

	The operator is obliged to store and dispose of the collected dust in accordance with national or regional regulations.
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7. List of spare parts

Filter element	Article no.
Replacement active carbon cartridge with 1.9kg active carbon, D=145, L=457	50211604145
Active carbon bagged goods (standard), 25 kg	1001970001
Replacement seal for active carbon cartridge D=145	200421211604146
Disposal elements	Article no.
PE-bag for the disposal of filter cartridges (4 pieces)	10030251702

8. Maintenance intervals

8.1. Usage-related maintenance

The described maintenances become necessary through the demands of the system operations. The maintenance intervals are recommendations. Depending on the application (multi-shift operation, dust generation, ...) it may make sense for the operator to change the intervals of maintenance, replacing and cleaning.

Maintenance work must always be documented by means of a protocol.

The approach of the maintenance measures is described in chapter "Maintenance".

Maintenance work	Chapter	Maintenance interval	
		recommended by TEKA	determined by the operator
Replacing the activated carbon / the activated carbon cartridge (or check the degree of pollution)	5.2	when odours occur / when replacing the main filter	

8.2. General maintenance

The described maintenances are independent from the demands of the system operations.


The operator is obliged to carry out repeated inspections and functional tests according to national regulations. If not otherwise covered by national regulations, the described maintenance intervals must be respected.

Maintenance work must always be documented by means of a protocol.

Maintenance work	Chapter	Maintenance interval
Visual inspection of the device	8.2.1	weekly

8.2.1. Visual inspection of the device

Visual inspection: Observation that there are no visible safety-related defects.

	WARNING
<p>Danger arising from the ready to operate condition of the device. Follow the procedure as described in the chapter "Set to maintenance state".</p>	

The following steps must be carried out in the course of the visual inspection:

- Check all metal parts for corrosion or damages / changes of the coating.
- Check the inner filter area and the filter housing.