



We set air in motion

TEKA Operating instructions

Type

TEKA-filtoo

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Deutsch

English

Français

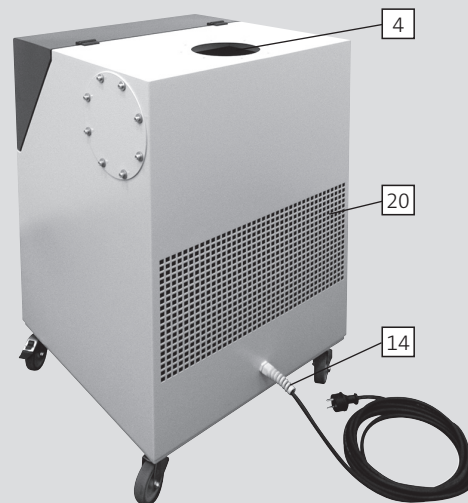
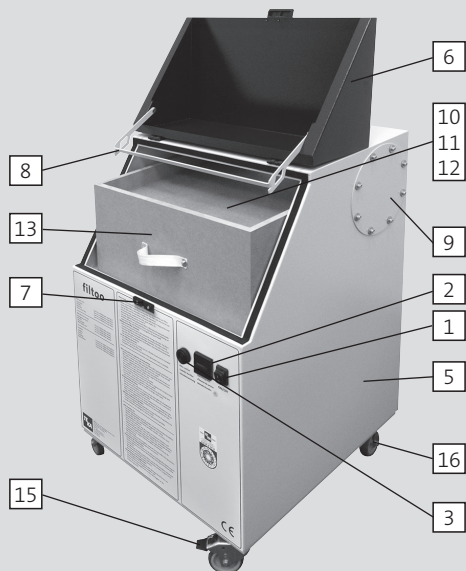
Español

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I. Product description of filtoo



1	Main switch ON / OFF	5	Filter housing
2	Operating hours meter	6	Maintenance door
3	Alarm horn signalling a necessary filter change	7	Snap fastener for the maintenance door
4	Connection opening for the suction arm	8	Retainer

9	Connection for the suction hose (delivery including covering plate)	15	Swivel castor with brake
10	Gross filter (placed onto prefilter)	16	Swivel castor
11	Prefilter (placed onto activated carbon filter)	17	Screw for assembly of the suction arm
12	Activated carbon filter (inserted in the main filter)	18	Lock washer for assembly of the suction arm
13	Main filter	19	Rotary flange for assembly of the arm
14	Mains cable with mains plug	20	Outlet of the cleaned air

II. Safety

II. 1. Intended use



Read this manual before you use the system and observe the safety instructions in order to avoid injuries!

Keep this manual in a safe place!

Observe all instructions marked on the product!

Operators have to be properly instructed in the use of the device!

Observe the indications of the manufacturer. Contact the manufacturer in case of uncertainties:

Telephone: +49 2863 9282-0

Fax: +49 2863 9282-72

The filter unit filtoo is mainly used for the extraction of dry dusts and fumes. To this end, the unit can be equipped with a flexible suction arm or a suction hose.

filtoo may only be used indoors and has to be supervised during operation!



Prohibition of application! Do not use the unit for the extraction of:

Moist fumes, explosive mixtures of substances, easily inflammable dusts and gases, liquids, aggressive or organic substances, burning or glowing substances etc.

Do not use the unit in explosive zones.

The polluted air is taken in by the suction hood and enters into the filter unit. The operator can adjust the suction hood to every position within his reach. The extraction power can be regulated with the help of the regulating flap that is integrated in the hood.

In the filter unit, the gross dust particles are separated in the gross filter (pos. 10), while the finer dusts are separated in the prefilter (pos. 11). An activated carbon filter (pos. 12) is inserted between the prefilter and the main filter in order to absorb gases. The main filter (pos. 13) separates very fine fume particles with a separation efficiency of more than 99 %.

The cleaned air is returned to the working space via the outlet grid at the back of the unit.

**Attention!**

As soon as, due to the separated particles, the resistance of the filter has achieved a maximum value, the integrated monitoring electronics triggers off the alarm of the signal horn (pos. 3) indicating that the filters must be replaced (see chapter „Maintenance“).

II. 2. Safety instructions

The unit is constructed according to the state of the art and the approved safety regulations. Nevertheless, the use can cause dangers to life and limb or damages of the machine. Due to this, read the following safety notes before using the product.



WARNING

Working with the device and at live components includes the danger of electric shocks or of accidentally restarting the device. Both cases mean danger to life and limb.

- ▶ While opening, cleaning and maintaining the unit or while changing parts, disconnect the filter unit from the mains supply and secure it from being restarted.
- ▶ The unit must not be used if the mains cable is not in perfect condition.
- ▶ Do not use the filter unit if one or more parts of the unit are faulty, missing or damaged.
- ▶ Observe the approved supply voltage! (Observe the indications on the name plate).

Without appropriate intake elements, the dusts and fumes are not sufficiently extracted. This also applies to missing filter inserts and a false conduct of the exhaust air because it can affect the cleaning function. This can lead to dangers for the respiratory tracts.

- ▶ Before starting up the unit, all filter elements must be inserted (gross filter, prefilter, activated carbon filter, main filter). Filtoo must not be used without filter inserts.
- ▶ The extraction element (suction arm or suction hose) must be connected to the filter unit before the start-up.
- ▶ The air outlet opening must not be covered or blocked.
- ▶ Only use original TEKA spare parts! Otherwise, the warranty expires. The warranty regulations can be found in the General Terms and Conditions of TEKA GmbH.

Parts of the device which fall down or are not properly fixed may result in danger to life and limb.

- ▶ During transport, the device has to be secured against falling and slipping.
- ▶ When lifting and putting down the device, do not remain below or next to the load.

1. Commissioning

1. 1. Unpacking the filtoo

The filtoo is delivery completely packed in a carton. The enclosed intake element (suction arm or suction hose) is separately packed.



Attention!

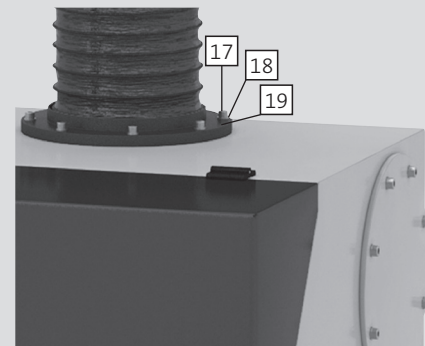
The intake element must be fitted to the device before the start-up. Always make sure that the device is in a safe position and that the brakes at the swivel castors are pulled.

1. 2. Connecting the intake elements

1. 2. 1. Use of a suction arm

The suction arm is fixed with the help of the rotary flange (pos. 19), screws (pos. 17) and lock washers (pos. 18) at the upper connection opening (pos. 4) of the housing.

For further information, see the separate manual for the suction arm.

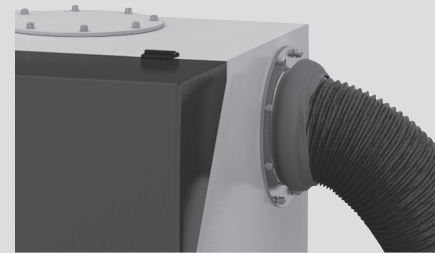


1. 2. 2. Use of a suction hose

If you use a suction hose, fix it at the lateral connection opening (pos. 9). In this case, fix the cover panel to the upper intake opening.

1. 3. Connecting the device

Connect the device to the mains supply.



2. Explanation of the control elements

- Pos. 1 The main switch switches the filter unit on or off.
- Pos. 2 The operating hours meter counts the operating hours as soon as the main switch is pushed.
- Pos. 3 The signal horn indicates whether the suction performance is sufficient. If it is triggered off, the filters must be replaced.

3. Maintenance

3. 1. General indications

The filtration of the dust particles increases the saturation degree of the filter cartridge and reduces the extraction performance.

The saturation degree of the filter cartridge is monitored electronically. In order to maintain the extraction performance of the device, the filters must be replaced as soon as the signal horn (pos. 3) is triggered off.



Warning!

Pull the mains plug for all kinds of maintenance tasks. Only replace the filters in sufficiently ventilated rooms and with an appropriate respiration protection. Dispose of the filters according to the national regulations.

3. 2. Changing intervals of the filter elements

After a certain amount of operating hours, the filter elements must be replaced. This depends on the produced amount of dust or gas. Nevertheless, the filters must be replaced at the latest if the signal horn (pos. 3) is triggered off.

Depending on the application, it can be required to replace the filters even earlier.

We recommend the following changing intervals:

Filter element	Recommended operating period
Gross filter	50 operating hours
Prefilter	100 operating hours
Activated carbon filter	100 operating hours
Main filter	200 operating hours

3. 3. Replacing the filters



Attention!

All filter elements are non-returnable filters. Every kind of manual cleaning can destroy the filter. Pollutants penetrate into the ambient air and can endanger your health.

Only use original TEKA spare filters.

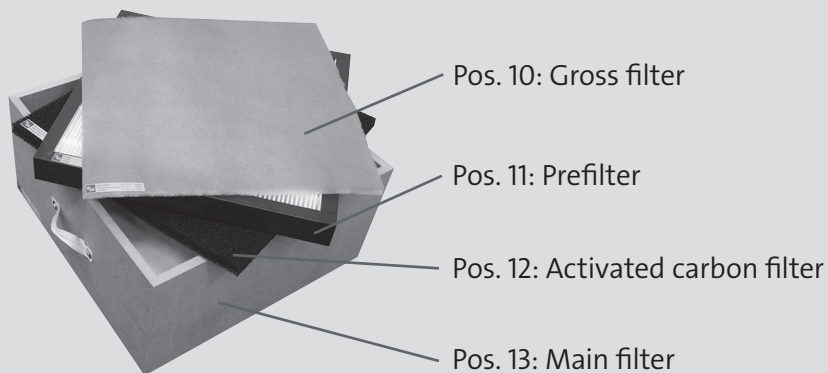
Otherwise, the function of the filtoo cannot be guaranteed!

3. 3. 1. Withdrawing the filter elements

- ▶ Switch off the filtoo with the main switch (pos. 1).
- ▶ Open the snap fastener (pos. 7) and fold the maintenance door (pos. 6) up. Secure the filtoo from being accidentally restarted in disconnecting the mains plug from the socket.
- ▶ Take the handle of the main filter (pos. 13), lift it up slightly and pull it in your direction. Now grasp the wooden side at the back and lift the main filter carefully out of the device.
- ▶ While changing, place the main filter onto one of its wooden sides in order not to damage or pollute the sealing at the bottom.

3.3.2. Replacing the filter elements

- ▶ Which filter element must be replaced depends on the pollution degree of the individual filters. It can vary and depends on the application. However, please consider our recommended changing intervals. We recommend: Note the amount of operating hours every time you replace a filter.
- ▶ The construction of the filter elements corresponds to the following order:



3.3.3. Inserting the new filters

- ▶ Insert the main filter including all 3 filter elements into the housing of the filtoo. The handle of the main filter must be adjusted to the front.
- ▶ Close the maintenance door (pos. 6). When doing so, the retainer (pos. 8) must slide inwards onto the wooden frame of the main filter in order to clamp the main filter into the housing.
- ▶ Close the snap fastener (pos. 7).

4. Disposal and disassembly

The owner of the filtoo is responsible for the disposal of the filter elements according to the national legal directives and regulations.

When finally decommissioning the filtoo, the owner is responsible for the appropriate disposal of all components and materials according to all national directives and regulations.

Warning! Disconnect the device from the mains supply before the disassembly.

5. Repair of faults



In the event of an incident, disconnect the filter unit from the mains supply as a precaution measure. In case of a potential electrical fault, it is obligatory to consult an electrician.

Fault	Possible cause	Remedy
Extraction performance too weak (Fumes are not or only hardly extracted).	Filter elements are saturated.	Replace the filter elements, dispose of the used filters appropriately!
	The throttle valve of the suction hood is closed.	Open the throttle valve.
	The suction hose or suction arm is not or not correctly closed.	Check the position of the suction hose or the suction arm and connect it if necessary.
	The clean air outlet is narrowed or covered.	Check the clean air outlet, repair the fault if necessary.
	The suction duct is narrowed.	Check the suction duct, repair the fault if necessary.
	The suction element is damaged.	Replace the extraction element.
The device does not start.	The mains plug is not or not correctly plugged into the socket.	Check/correct the mains connection.
	The socket is not supplied with voltage.	Check the electric circuit. If necessary, consult an electrician.

6. Technical data

Product designation	filtoo (115 V, 50 Hz)	filtoo (115 V, 60 Hz)	filtoo (230 V, 50 Hz)
Supply voltage	115 / 230 V		
Type of current	1 Ph		
Frequency	50 / 60 Hz		
Engine performance	1,1 kW		
Nominal current	7,0 A (at 230 V) / 13,2 A (at 115 V)		
Volumetric air flow max.	1600 m ³ /h		
Depression max.	1800 Pa		
IP rating	IP 54		
ISO class	F		
Control voltage	115 / 230 V		
Width	580 mm		
Depth	580 mm		

Height (without arm)	900 mm		
Weight	80 kg		
Filter elements	Gross filter, prefilter, activated carbon filter, main filter		
Extraction performance	> 99 %		
Sound pressure level	72 dB(A)		
Ambient temperature	+5 to +30 °C		
Air humidity	max. 70 %		
power connection type	HO7RN-F 1Ph+N+PE	H05RR-F 1Ph+N+PE	HO7RN-F 1Ph+N+PE

7. List of spare parts

Spare filters	Art. No.
Gross filter, 10 pieces	978003
Prefilter, 1 piece	978004
Main filter, 1 piece	978005
Activated carbon filter, 1 piece	978006
Other spare parts	Art. No.
Suction arm type filtoo complete, diam. 150	978009
Spare hose for suction arm type filtoo	978007
Spare hood for suction arm type filtoo	978008
Set suction hose: 3 m hose diam. 150 with suction nozzles and hood	978012
PE bags for the disposal of the filters, 3 pieces	10030257

8. Declaration of conformity



Manufacturer: TEKA Absaug- und Entsorgungstechnologie GmbH
Address of the manufacturer: Industriestraße 13 • 46342 Velen • Germany
Contact: Tel.: +49 2863 9282-0 • Fax: +49 2863 9282-72 • info@teka.eu • www.teka.eu
Product: filtoo

Function of the device: Filter unit for the local extraction of dusts and fumes.

We hereby declare under our sole responsibility that the product mentioned above, from the machine number 6907210011001 on, conforms to the following directives:

Machinery directive: 2006/42/EG Electromagnetic compatibility: 2014/30/EU

Applied harmonized standards:

- | | | |
|-----------------------|--------------------|--------------------|
| ▶ DIN EN 349 | ▶ DIN EN ISO 4414 | ▶ DIN EN ISO 12100 |
| ▶ DIN EN 60204 part 1 | ▶ DIN EN ISO 13857 | ▶ DIN EN ISO 14121 |

plus further national standards and specifications:

- | | |
|--------------------|----------------------|
| ▶ DIN 45635 part 1 | ▶ DIN EN ISO 15012-1 |
|--------------------|----------------------|

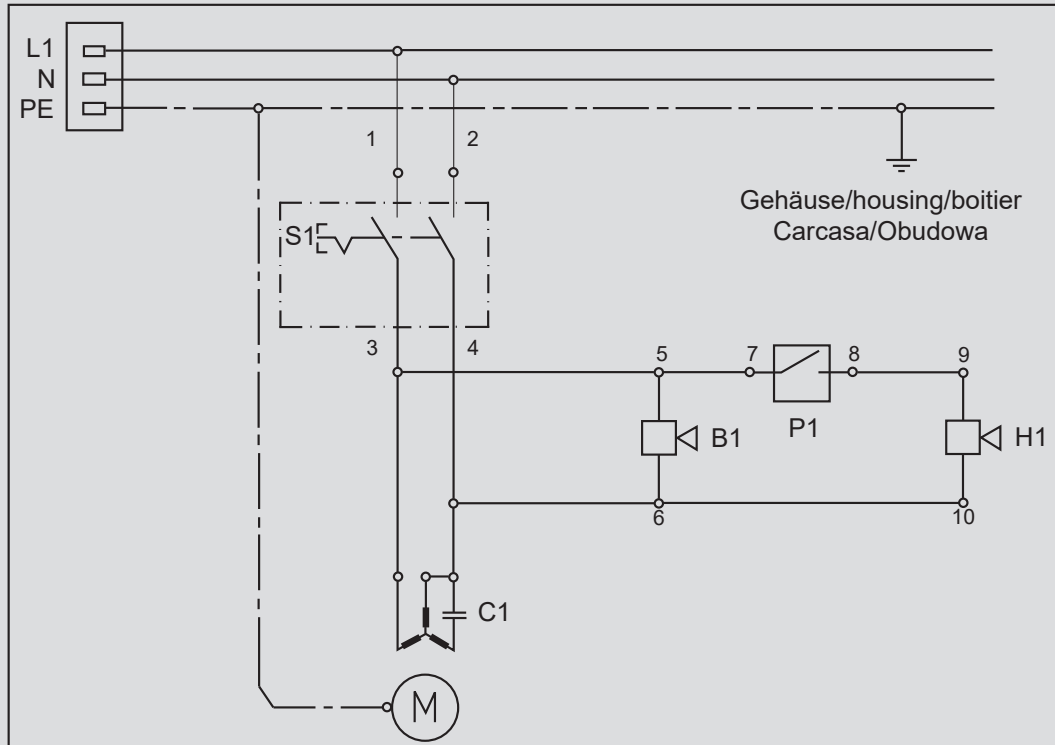
This declaration will become void if the suction and filter unit is exposed to modifications that are not approved by the manufacturer in written form.

Authorized representative for the technical documentation:
Technical Department, TEKA GmbH, 46342 Velen, Germany

A handwritten signature in black ink, appearing to read 'Jürgen Kemper'.

(Jürgen Kemper, managing director)
Velen, Januar 3rd, 2017

Circuit diagram



M = 1PH Motor

C1 = condensator

S1 = ON / OFF-Switch

P1 = pressure sensor

B1 = hours counter (AC)

H1 = buzzer (AC)