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FESTOOL

Instruction manual

Important: Read all instructions before using.

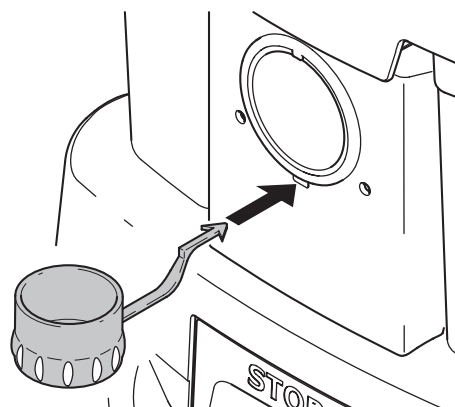
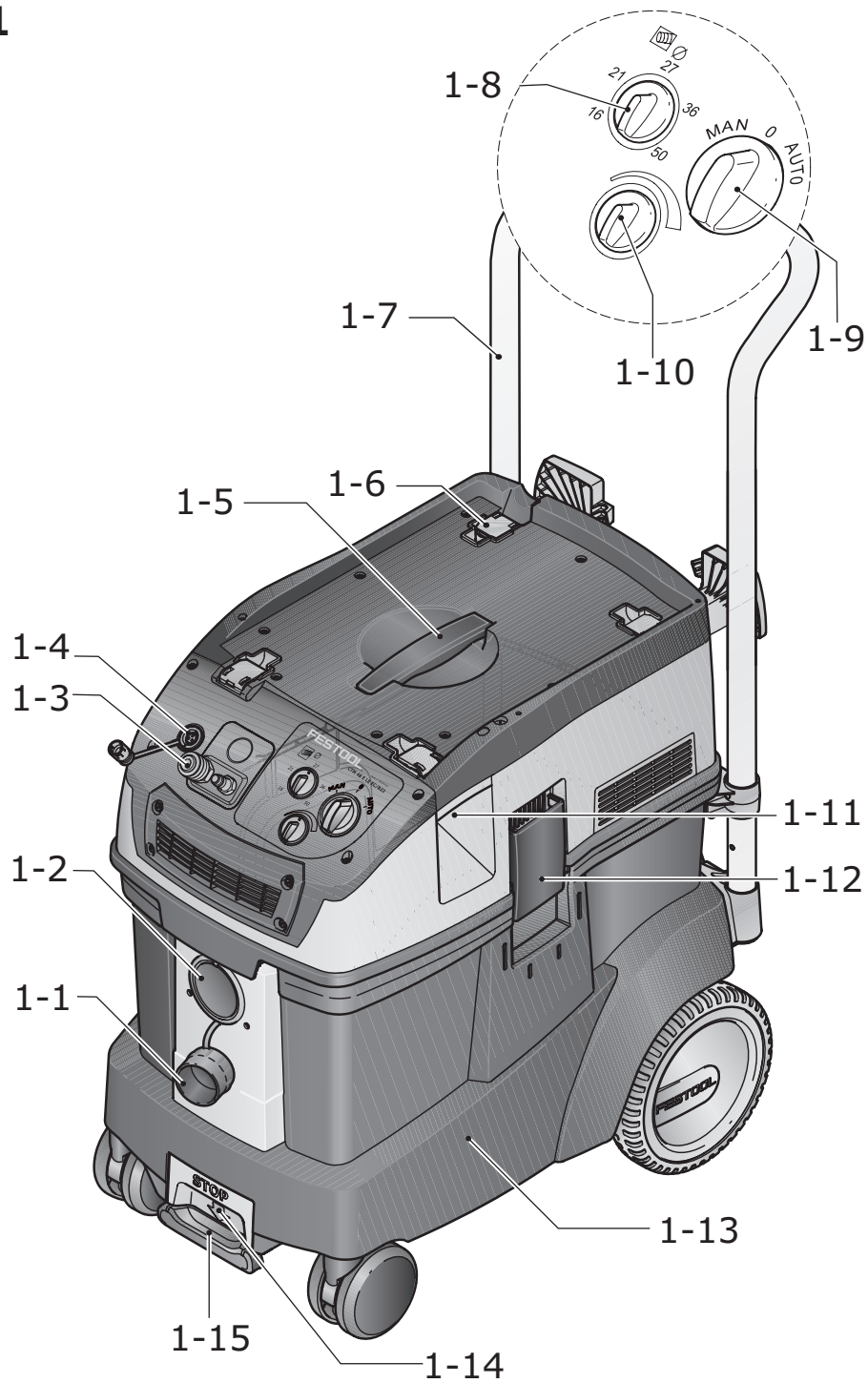
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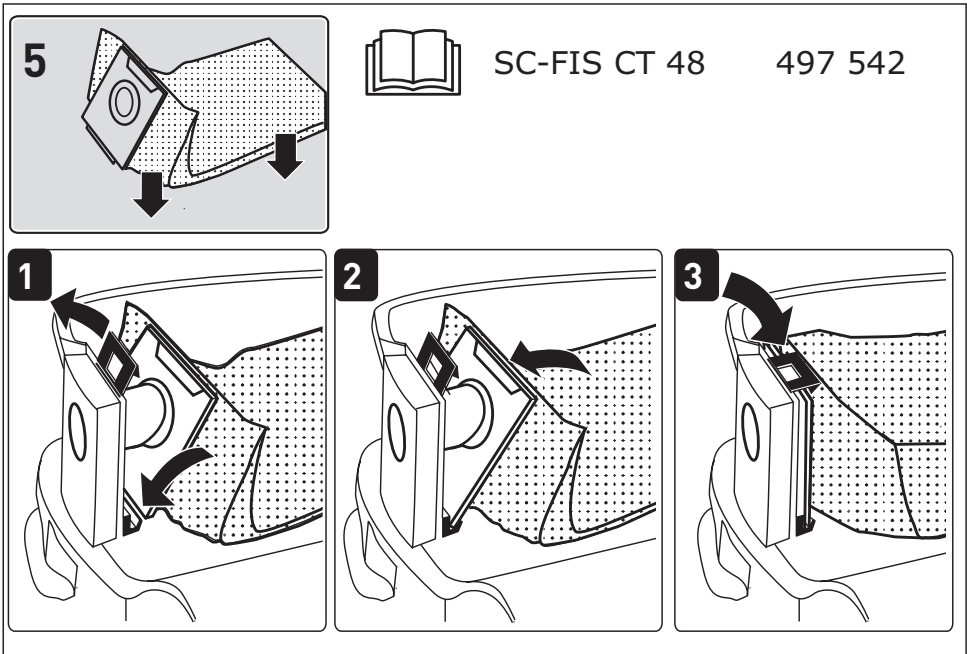
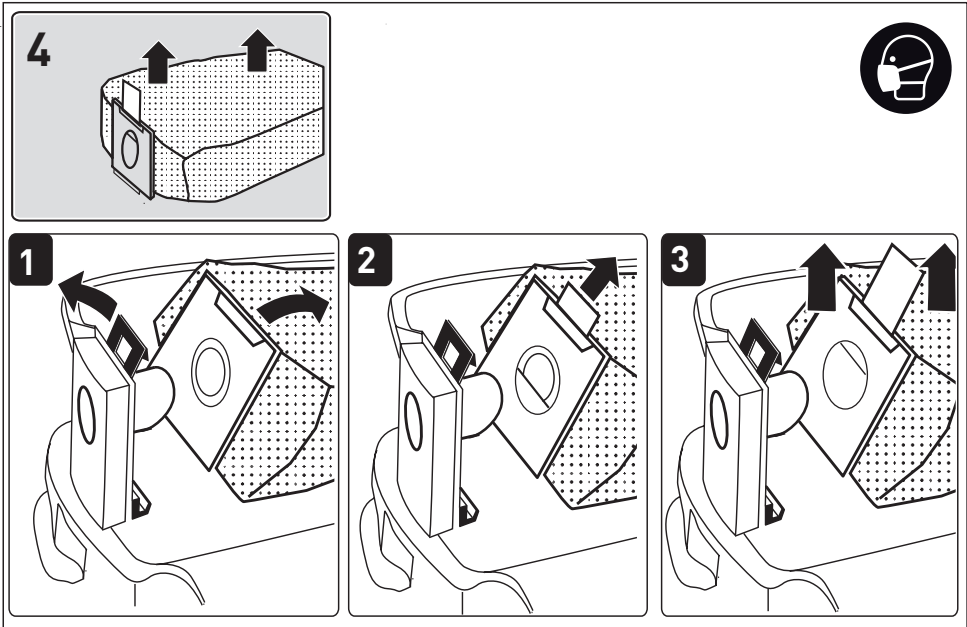
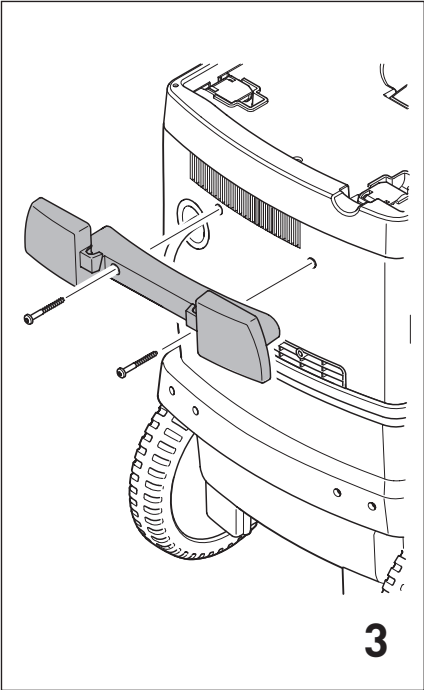
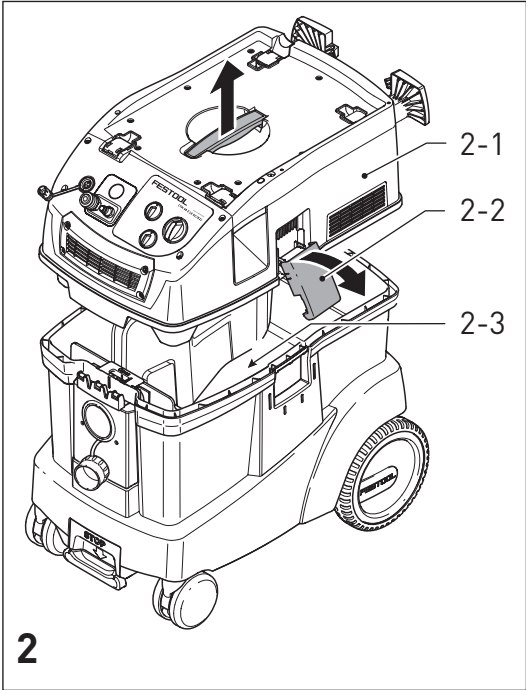


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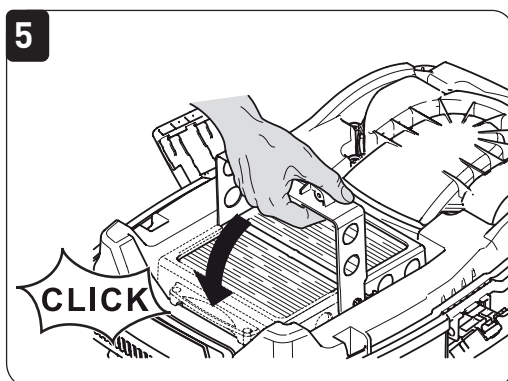
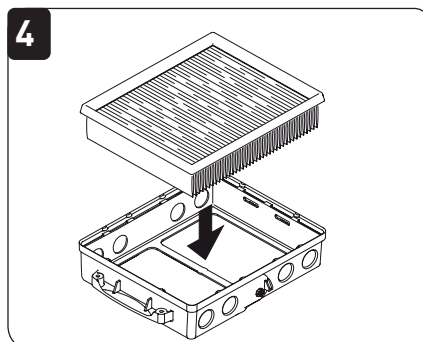
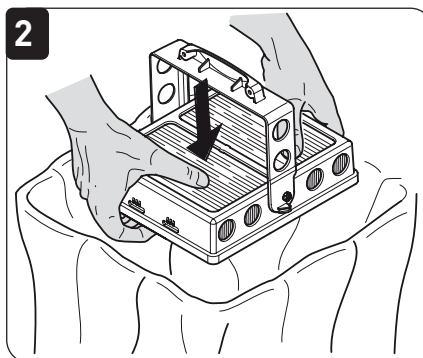
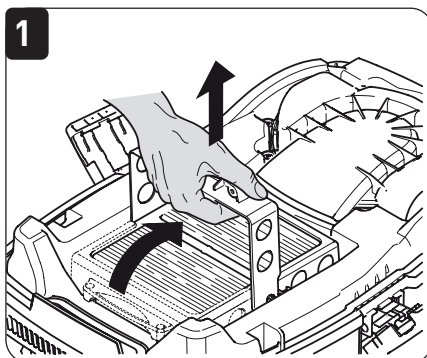
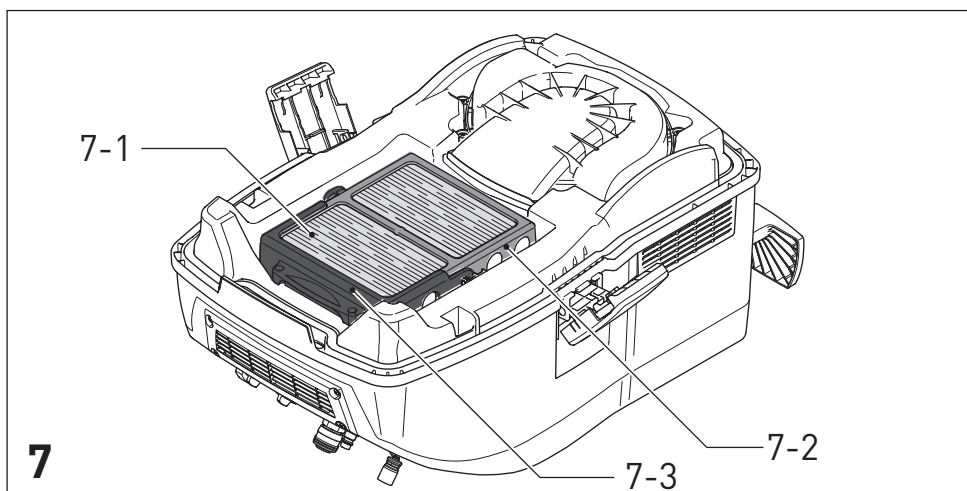
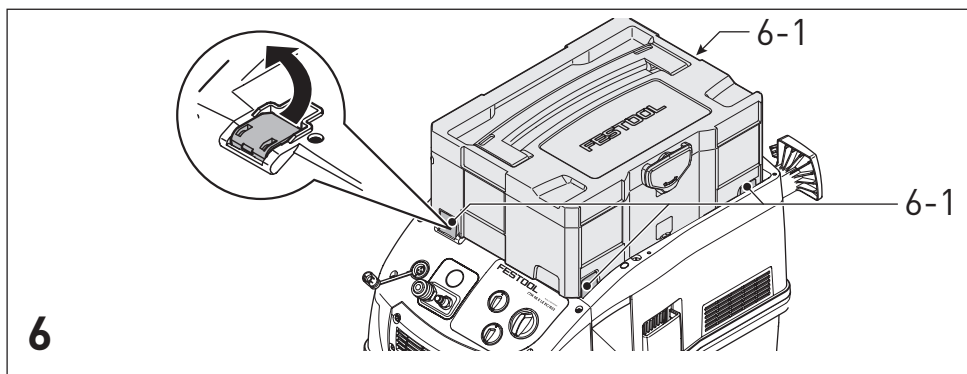
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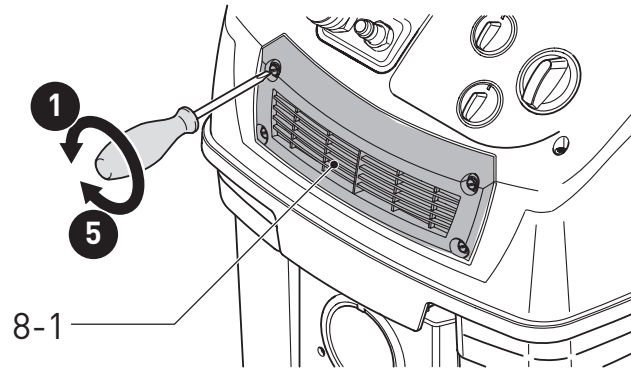
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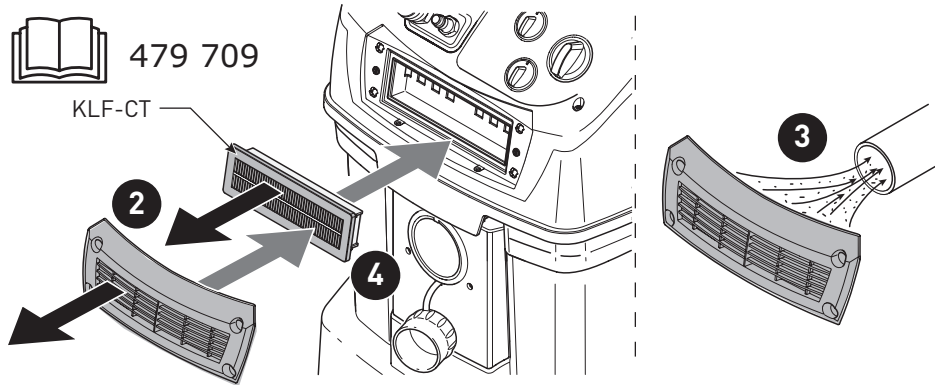
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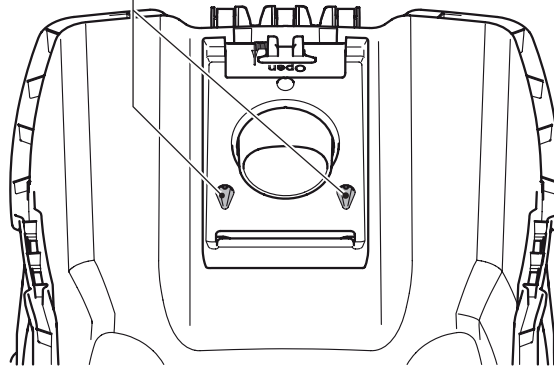
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Original operating manual

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The specified illustrations appear at the beginning of the Operating Instructions.

Symbols



Warning of general danger



Risk of electric shock



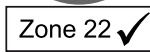
Read the Operating Instructions/Notes!



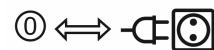
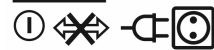
Wear a dust mask.



Do not extract glowing dust or other ignition sources. Do not use in conjunction with machines that generate sparks!



Do not insert or pull out the plug under load!



Intended use

The mobile dust extractor is suitable for the extraction of dry, combustible dust from machines and equipment in Zone 22 in accordance with IEC 60335-2-69.

The mobile dust extractors are designed for extracting non-hazardous dust.

The HEPA filter corresponds to HEPA filter class 13 (degree of filtration > 99.95%).

The mobile dust extractors are designed to extract water

as well as for heavy-duty applications and industrial use in accordance with IEC 60335-1 and IEC 60335-2-69.

The mobile dust extractor is not suitable for extracting dust that poses a risk of explosion (e.g. explosives), flammable liquids and mixtures of combustible dust and flammable liquids.

The mobile dust extractor is not suitable for equipment that generates sources of ignition.



The user bears the responsibility for damage and accidents caused by improper use.

Machine features

[1-1]	Sealing plug	[1-9]	Switch
[1-2]	Intake opening	[1-10]	Suction power adjuster
[1-3]	Compressed air connection	[1-11]	Appliance socket with automatic on/off function
[1-4]	Connection for energy box	[1-12]	Locking clip
[1-5]	Handle	[1-13]	Dust container
[1-6]	SysDoc	[1-15]	Brake
[1-7]	Handle SB-CT (accessory)		
[1-8]	Hose diameter setting		

Technical data

Mobile dust extractors			
Power consumption			150 - 1100 W
Maximum appliance socket connected load	AUS		1300 W
Max. suction capacity (air), turbine			204 m³/h (3400 l/min)
Max. vacuum, turbine			23000 Pa
Filter surface area			6318 cm²
Suction hose			D 27 mm x 3,5 m-AS
Length of the net cable			7,5 m
Sound pressure level as per EN 60704-2-1 / Uncertainty K			72 dB(A) / 3 dB
Protection category		CE 0344 EX II 3D Ex e 135°C IP 54	
Container capacity			48 l
Dimensions L x W x H			630 x 406 x 640 mm
Weight			18,6 kg

Safety instructions

General safety instructions

⚠ Warning! Read all safety warnings and all instructions. Failure to follow the warnings and instructions may result in electric shock, fire and/or serious injury.

Save all warnings and instructions for future reference.

- The device is not intended for use by persons (including children) with limited physical, sensory or mental ability or without sufficient experience and/or knowledge, unless they are supervised by a person responsible for their safety or have been

instructed on how to use the device. Children should always be supervised to ensure that they do not play with the device.

- Prior to use, operating personnel must receive information and instructions on how to use the device and handle any materials involved as well as relevant training, including safe procedures for disposing of the extracted materials.
- Observe all the applicable safety regulations relating to handling materials.
- **Warning:** the machine may contain hazardous dust. Only authorised and qualified personnel with suitable protective equipment may perform main-

tenance work, including emptying the container and changing the filter. Do not operate the machine without a fully fitted filter system.

- When extracting hazardous dust or large quantities of oak or beech dust, only use the machine in combination with a single electric or pneumatic tool.
- **Risk of explosion and fire hazard:** Also observe any other restrictions relating to dust with an ignition energy of less than 1 mJ specified by the labour authorities. Do not extract sparks or hot dust, flammable or explosive fluids (e.g. petrol, thinner), aggressive fluids/solids (e.g. acid, leach, solvent). This mobile dust extractor is suitable for extracting paint dust.
- Do not damage the mains power cable (e.g. by driving over, dragging, etc.). Protect from heat, oil and sharp edges. Do not pull the plug from the socket by the cable.
- Check the plug and the cable regularly and have them replaced by an authorised service workshop should either become damaged. Always replace

the mains power cable with the type specified in the spare parts list.

- Do not expose the machine to rain.
- For reasons of safety, never operate the machine from an unearthed socket.
- Always use the machine socket for the purpose specified in the manual.
- Always use original Festool accessories.
- Pull the plug from the socket when the machine is not in use and prior to maintenance and cleaning work.
- Design 22 dust extractors are suitable for connecting to machines in Zone 22. Care must be taken to ensure that no sources of ignition are extracted. Conductive machine components, including extractor hoods, and conductive parts on machines from protection class II must be electrostatically earthed. The electrostatic earthing can be routed through the dust extractor or established using separate electrostatic earthing equipment.
- Do not lift or transport the machine by the handle using a crane or lifting gear.
- The device may only be operated if all filters are present and undamaged, including the filter for the motor cooling air.
- Do not insert and remove the plug under load.
- In an emergency (e.g. short circuit or other electrical faults occur), switch off the machine and pull out the mains plug.

Operation



WARNING

Unauthorised voltage or frequency!

Risk of accident

- The mains voltage and the frequency of the power source must correspond with the specifications on the machine's name plate.
- In North America, only Festool machines with the voltage specifications 120 V/60 Hz may be used.

Initial operation

- ▶ Open the locking clips **[2-2]** and remove the top section of the machine **[2-1]**.
- ▶ Remove the accessories from the dust container **[2-3]** and the packaging!
- ▶ Insert a filter bag in the dust container that fulfils statutory requirements (see chapter "Changing the filter bag (SC-FIS-CT 48)").
- ▶ Replace the top section **[2-1]** and close the locking clips **[2-2]**.
- ▶ Attach the cable holder to the rear of the mobile dust extractor (see Fig. **[3]**).
- ▶ Insert the sealing plug **[1-1]** on the panel (see Fig. **[1]**).
- ▶ Connect the suction hose to the machine.

Switch on/off

- ▶ Insert the plug into an earthed socket.



The use of extension cables in Zone 22 is not permitted.



CAUTION

Risk of injury from tools starting up unexpectedly

- ▶ Before setting the switch to the "AUTO" or "MAN" position, make sure that the connected tool is switched off.

The switch **[1-9]** serves as an on/off switch.

Switch position "0"

Appliance socket **[1-11]** is disconnected from the power, mobile dust extractor is switched off.

"MAN" switch position

Appliance socket **[1-11]** is connected to the power, the mobile dust extractor starts.

"Auto" switch position

Appliance socket **[1-11]** is connected to the power, the mobile dust extractor starts when the connected tool is switched on.

Settings

Adjusting the hose diameter

- ▶ Adjust the hose diameter adjuster **[1-8]** to match the diameter of the connected hose.
- ① The monitoring devices will measure the air speed in the extractor hose correctly as a result (see chapter "Volumetric flow monitoring").

Connecting electric power tools



WARNING

Risk of injury

- ▶ Observe the maximum connected loads for the appliance socket (see chapter "Technical data").
- ▶ Make sure that the power tool is switched off before connecting or disconnecting.

- ▶ Connect the electric power tool to the appliance socket **[1-11]**.

Connecting pneumatic tools



WARNING

Risk of injury

- ▶ Make sure that the pneumatic tool is switched off before connecting or disconnecting.

With the compressed air module **[1-3]**, the automatic switch-on function for the mobile dust extractor also works in conjunction with air tools.

We also recommend installing the VE service unit (495886). The service unit filters and lubricates the compressed air and enables an adjustment of the air

pressure. An IAS adapter (454757) is available to connect Festool air tools to the IAS system.

The operating pressure of the tool must be 6 bar for the automatic switch-on unit to function correctly.

Connecting the energy box

The connection for the energy box (EAA) [1-4] allows you to connect the mobile dust extractor with the EAA in order to couple the automatic switch-on unit on the mobile dust extractor with the equivalent unit on the EAA.

Adjusting the suction power

You can use the suction power adjuster [1-10] to adapt the machine suction power to different applications.

Applying the brake

Folding out the black brake lever [1-15] prevents the mobile dust extractor from rolling. To achieve this, lift the front end of the mobile dust extractor slightly and push the black brake lever downwards until it

latches into place. Push the green lever [1-14] again to release.

Temperature cut-out

A temperature cut-out switches the mobile dust extractor off when it reaches a critical temperature to prevent overheating.

- ▶ Switch off the mobile dust extractor and allow to cool for approx. 5 minutes.
- ▶ Change the cooling air filter if necessary (see chapter "Changing the cooling air filter [8]").
- ① If the mobile dust extractor will not switch on again, please contact a Festool service workshop.

Changing the filter bag (SC-FIS-CT 48)

Removing the filter bag [4]

- ▶ Open the locking clips [2-2] and remove the top section of the machine [2-1].
- ▶ Remove the filter bag.
- ▶ Dispose of the used filter bag in accordance with statutory regulations.

Inserting the filter bag [5]

- ▶ Insert a new filter bag (SC-FIS-CT 48) in the inlet port of the dust container and interlock it. **Important:** be aware that the locking engages.
- ① Make sure that the filter bag is not pinched between the top and bottom sections.
- ▶ Replace the top section [2-1] and close the locking clips [2-2].

Volumetric flow monitoring

An acoustic warning signal sounds if the air speed in the suction hose falls below 20 m/s.

Possible causes	Solution
Value set on the suction power adjuster [1-10] is too low.	Set the suction power adjuster to a higher value (see Chapter "Adjusting the suction power").
Rotary knob [1-8] not set to the correct hose diameter.	Set the knob to the correct hose diameter (see Chapter "Adjusting the hose diameter").
Suction hose blocked or kinked.	Remove blockage or kink.
Filter bag full.	Insert a new filter bag (see Chapter "Changing the filter bag (SC-FIS-CT 48)").
Dirty main filter.	Changing the main filter (see Chapter "Changing the filter bag (SC-FIS-CT 48)").
Monitoring electronics malfunction.	Send to a Festool service workshop for repair.
Wet extraction.	Functional reliability not affected, no actions required.

Working

Handling

SysDoc SYSTAINER attachment system: A SYSTAINER can be attached to the storage area using the four locking latches [6-1].

Extracting dry materials



CAUTION

Hazardous dust

Damage to the respiratory passage

- ▶ Always use a filter bag when extracting hazardous materials!
- ▶ Do not use the machine if the volumetric flow monitoring function is inactive.

Observe the following when extracting dust generated by operating electric power tools:

If the exhaust air is discharged back into the room, the **air renewal rate L** within the room must be sufficient. The volume of air discharged back into the room must not exceed 50% of the fresh air volume flow (room volume V_R x air renewal rate L_W). Observe all the relevant regional regulations.

Remember: A moist main filter clogs more quickly when extracting dry materials. Therefore, dry the main filter before extracting dust or replace the damp filter with a dry one.

Extracting fluids

- ① The HEPA filter element shall only be used for extracting dry materials.

Before extracting fluids, remove the filter bag (see Chapter "Changing the filter bag (SC-FIS-CT 48)"). We recommend using a special wet filter.

The dust extractor stops automatically when the maximum level is reached.



CAUTION

Escaping foam and fluids

- ▶ Switch off the machine immediately and empty the dirt trap.

After finishing work



Empty the mobile dust extractor after every use and clean if necessary.

- ▶ Switch off the mobile dust extractor and disconnect the plug.
- ▶ Wind up the mains power cable.
- ▶ Empty the dust container.
- ▶ Close off the extractor opening [1-2] using the sealing plug [1-1].



The machine shall be stored indoors only.

- ▶ Place the mobile dust extractor in a dry room inaccessible to unauthorised users.



WARNING

Risk of injury, electric shock

- ▶ Always disconnect the mains plug from the socket before performing maintenance work on the machine!
- ▶ All maintenance and repair work which requires the motor housing to be opened must only be carried out by an authorised service workshop.

Damaged safety devices and components must be repaired or replaced in a recognised specialist workshop, unless otherwise indicated in the operating manual.

Observe the following instructions:

- A dust test must be performed at least once a year by the manufacturer or an instructed person. This test may include checks to determine whether the filter is damaged, the machine is sealed properly and the monitoring features are functioning correctly.
- During maintenance and repair work, all components that cannot be cleaned satisfactorily must be replaced. The old components must be sealed in impermeable plastic bags prior to disposal in compliance with applicable regulations for this type of waste.
- Provided maintenance personnel or other persons in the vicinity are not endangered, the user must dismantle and clean the machine prior to performing maintenance work. Appropriate precautionary measures include decontaminating the machine prior to disassembly, making provisions for locally filtered forced ventilation at the location of machine disassembly, cleaning the maintenance area and appropriate personal protective equipment.

Changing the filter element

NOTE

Motor damage

- ▶ Never operate the extractor without a filter element fitted as the motor may become damaged.
- ▶ Open the locking clips [2-2] and remove the top section of the machine [2-1].
- ▶ Turn the top section of the machine so that the main filter is facing upwards (Fig.[7]).
- ▶ Fold over the lever [7-3] and remove the retainer. [7-2]
- ▶ Remove the used main filter and replace [7-1] with a new one.
- ▶ Dispose of the used filter in accordance with statutory regulations.
- ▶ Insert the retainer [7-2] and fold over the lever [7-3] until it engages.
- ▶ Replace the top section [2-1] and close the locking clips [2-2].

Changing the cooling air filter [8]

Replace the cooling air filter if the mobile dust extractor switches off due to excess temperature and replace at least once a year.

- ① We recommend that you always replace the cooling air filter together with the main filter.
- ▶ Unscrew the cooling air cover [8-1].
- ▶ Remove the cooling air filter and replace with a new one!
- ▶ Close the cooling air cover.

Emptying the dust container

The dust container [2-3] can be emptied once the top section has been removed.

- ▶ After extracting fluids, clean the fill level sensors [9-1] regularly with a soft cloth and inspect for damage.

Accessories



WARNING

Using non-approved accessories and spare parts

Risk of explosion

- Always use Festool approved accessories and spare parts in Design 22 mobile dust extractors - See accompanying spare parts and accessories list.

Use only original Festool accessories and Festool consumable material intended for this machine be-

cause these components are designed specifically for the machine. Using accessories and consumable material from other suppliers will most likely affect the quality of your working results and limit any warranty claims. Machine wear or your own personal workload may increase depending on the application. Protect yourself and your machine, and preserve your warranty claims by always using original Festool accessories and Festool consumable material!

The order numbers for the accessories and filters can be found in the Festool catalogue or on the Internet at "www.festool.com".

Disposal

Do not throw the tool in your household waste!! Dispose of machines, accessories and packaging at an environmentally responsible recycling centre. Observe the valid national regulations.

EU only: European Directive 2002/96/EC stipulates that used electric tools must be collected separately

and disposed of at an environmentally responsible recycling centre.

Warranty

We offer a warranty for material and production defects for all our tools in accordance with the locally applicable legal provisions, but for a minimum of 12 months. Within the EU member states, the warranty period is 24 months (verification through invoice or delivery note). Damage caused by the operator, natural wear, overloading, incorrect handling or through the use of the equipment not specified in the operating manual, or damage which was known at the time of purchase, is not covered by the warranty. Furthermore, damage caused by the use of non-original accessories and consumable materials (e.g. sanding pads) is also excluded.

Complaints can only be accepted if the tool is returned while still assembled to the supplier or an authorised Festool Customer Service workshop. Keep the operating manual, safety instructions, spare parts list and purchase receipt in a safe place. Other-

wise the current warranty conditions of the manufacturer shall apply.

Note

Due to continuous research and development work, we reserve the right to make changes to the technical content of this documentation.

