

SILENT compact

Original Instructions

Schick GmbH



Thank you for purchasing a high-quality technical device from SCHICK GmbH. We hope you will enjoy working with your new **Silent Compact** extraction and wish you the best of success. We have prepared this operating manual in order to acquaint you with your new device and to provide the necessary information for operation and maintenance.

Project data:

Trade name:	Schick Silent Compact
Product name:	Silent Compact
Serial number:	Axxx xxx

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1 About this operating manual

You must read this operating manual before using the **Silent Compact** for the first time.

In particular, you must observe Section 2 "General safety regulations".

1.1 General notes

These instructions are intended to acquaint you with your **Silent Compact** and provide information on its proper use.

It contains important tips on how to operate the **Silent Compact** safely and correctly.

Compliance will:

- Avoid dangers
- Keep repair costs and downtimes to a minimum
- Increase the reliability and service life of the product

This manual must be read and adhered to by each person tasked with working with the **Silent Compact**.

In addition to this operating manual, the regulations on accident prevention and environmental protection applicable at the place of installation must also be observed.

1.2 Related documentation

The latest version of this manual as well as up-to-date product information is always available under www.schick-Industrie.de.

1.3 Signs and symbols used

The following signs and symbols are used in this manual:

- Activity symbol: The text after this sign describes handling instructions that must be carried out in the order indicated, from top to bottom.
- ✓ Result symbol: The text after this sign describes the result of an action.



Info symbol: Additional Information

1.4 Structure of warnings

Warning levels	Signal word	Use in case of ...	Possible consequences if the safety advice is not observed:
	DANGER	Personal injury (imminent danger)	Death or severe injuries!
	WARNING	Personal injury (potentially hazardous situation)	Death or severe injuries!
	CAUTION	Personal injury	Slight or minor injuries!

Tab. 1.1 Warning levels

The warnings are structured as follows:

- Pictogram with signal word corresponding to warning level
- Description of danger (type of hazard)
- Description of consequences of the danger (resulting hazards)
- Measures (activities) to prevent the danger



DANGER!

Type of danger (text)

Consequences of danger (text)

- Prevention of danger (text)

Warning signs Special safety instructions are provided at the relevant locations. These are marked with the following symbols.



General danger point

This symbol is indicated before activities that may result in personal injury or extensive property damage.

If the source of the danger is unambiguous, this symbol is preceded by one of the following symbols.



High voltage

This symbol is indicated before activities which pose a risk of electric shock, possibly with fatal consequences.



Hand injuries

This symbol is indicated before activities that pose a risk of hand injury.

2 General safety regulations

2.1 Principles

If the device is not used in compliance with the supplied instructions, the safety of the device can no longer be guaranteed.

The device may only be operated using a mains cable with the country-specific plug system. Any necessary alterations must be carried out by a qualified electrician.

The device may only be operated if the information on the identification plate conforms to the specifications of your local mains power supply.

The device may only be plugged into outlets which are connected to the protective conductor system.

The mains plug must be easily accessible.

Disconnect the device from the mains before carrying out work on the electrical parts.

Check connection cables (such as power supply cords), tubes and housing (i.e. the keypad) regularly for damage (i.e. kinks, cracks and porosity) or signs of ageing. Devices with damaged connection cables, tubes or housing parts or other defects must not be operated!

Defective devices must be put out of service immediately. Remove the mains plug and ensure the device is not used. Send the device for repair!

Only operate the device under supervision.

Please observe the national accident prevention regulations!

It is the responsibility of the operator that national regulations during operation and regarding a repeated safety inspection of electrical equipment are complied with. For Germany these are the regulation 3 by DGUV (German Statutory Accident Insurance) in relation with VDE 0701-0702 (Association for Electrical & Electronic Technology) .

2.2 Specific Information

The power socket on the device may only be used for the purpose specified in the instructions for use. The connection of other electronic devices could lead to material damage.

Before connecting an electronic device to the power socket, ensure that the electronic device is first switched off.

Read the operating instructions of the other appliance and comply with the safety instructions contained in the document.

Please observe the national regulations and permitted exposure to dust in a working environment. Please ask the "National Institute for Occupational Safety and Health" or other responsible authority.

Always refer to the relevant safety data sheets, when extracting hazardous materials.

Always wear protective gear, when extracting hazardous materials.

It is necessary to wear suitable personal protective equipment when emptying the dust drawer or cleaning, depending on the type of extracted material.

When disposing of the extracted material or used filter, please observe the local specifications and accident prevention regulations!

Make sure the dust drawer is fully closed during operation.

Do not operate without a suction hose.

Do not extract flammable or explosive gasses, fumes or dust.

Do not extract hot materials.

Do not extract liquids.

If the dust extractor is employed to extract hazardous materials, appropriate personal protective gear must be worn and steps must be taken to ensure that the exhaust air is properly ventilated.

Please refer to the associated safety data sheets for specific requirements.

Dispose of extracted material according to local statutory regulations.

2.3 Intended Use

This device is designed to extract dry, non-explosive dust.

The unit is intended solely for use in a commercial Industrie laboratory and Industrie practice.

The intended use also includes compliance with the instructions specified by the manufacturer concerning operation, servicing and maintenance.

2.4 Improper Use

The equipment is not suitable for use with Industrie CAM units!

For information concerning SILENT extraction units for CAM machines, please refer to www.schick-Industrie.de

Fire-promoting, easily flammable, red-hot, burning or explosive materials must not be suctioned into the device. It is not permitted to suction liquids.

This device is not intended for private, household use.

Any use other than specified in these instructions is deemed improper and constitutes a misuse of the device.

The manufacturer shall not be liable for damages caused by improper use.

Only spare parts and accessories supplied or authorized by Schick GmbH may be used with this product.

If other spare parts or accessories are used, this could have a detrimental effect on the safety of the device, increase the risk of serious injury and lead to damage to the environment or the device itself.

2.5 Selection and qualification of the personnel

Qualifications of personnel: Trainees and interns must be instructed by an experienced operator.

3 Ambient Conditions for Safe Operation

The device may only be operated:

- Indoors
- Up to an altitude of 2,000 m above sea level,
- At an ambient temperature of between 5 - 40 °C [41 - 104 °F] *),
- At a maximum relative humidity of 80% at 31 °C [87.8 °F], dropping to a linear of up to 50% relative humidity at 40 °C [104 °F] *),
- With mains power where the voltage fluctuations do not exceed 10% of the nominal value,
- Under contamination level 2 conditions,
- Under over-voltage category II conditions,

*) Between 5 - 30 °C [41 - 86 °F] the device can be operated at a relative humidity of up to 80 %. At temperatures between 31 - 40 °C [87.8 - 104 °F] the humidity must decrease proportionally in order to ensure operational readiness (e.g. at 35 °C [95 °F] = 65 % humidity, at 40 °C [104 °F] = 50 % humidity).

The device may not be operated at temperatures above 40 °C [104 °F].

3.1 Ambient Conditions for Storage and Transport

For storage and transport the following specifications to ambient conditions apply:

- Ambient temperature -20 – + 60 °C [- 4 – + 140 °F].
- Maximum relative humidity 80 %.

4 List of contents

	art.no.
Silent Compact cpl. w. charging dock	9705
Silent Compact	9700
control unit Silent Compact cpl.	9703
charging dock Silent Compact incl. tools	9701

4.1 Optional Accessories

9654 Silent Compact tool belt (without content)

9604 connecting cable

9604/1 connecting cable for Q Basic / Q Profi / QUBE LV

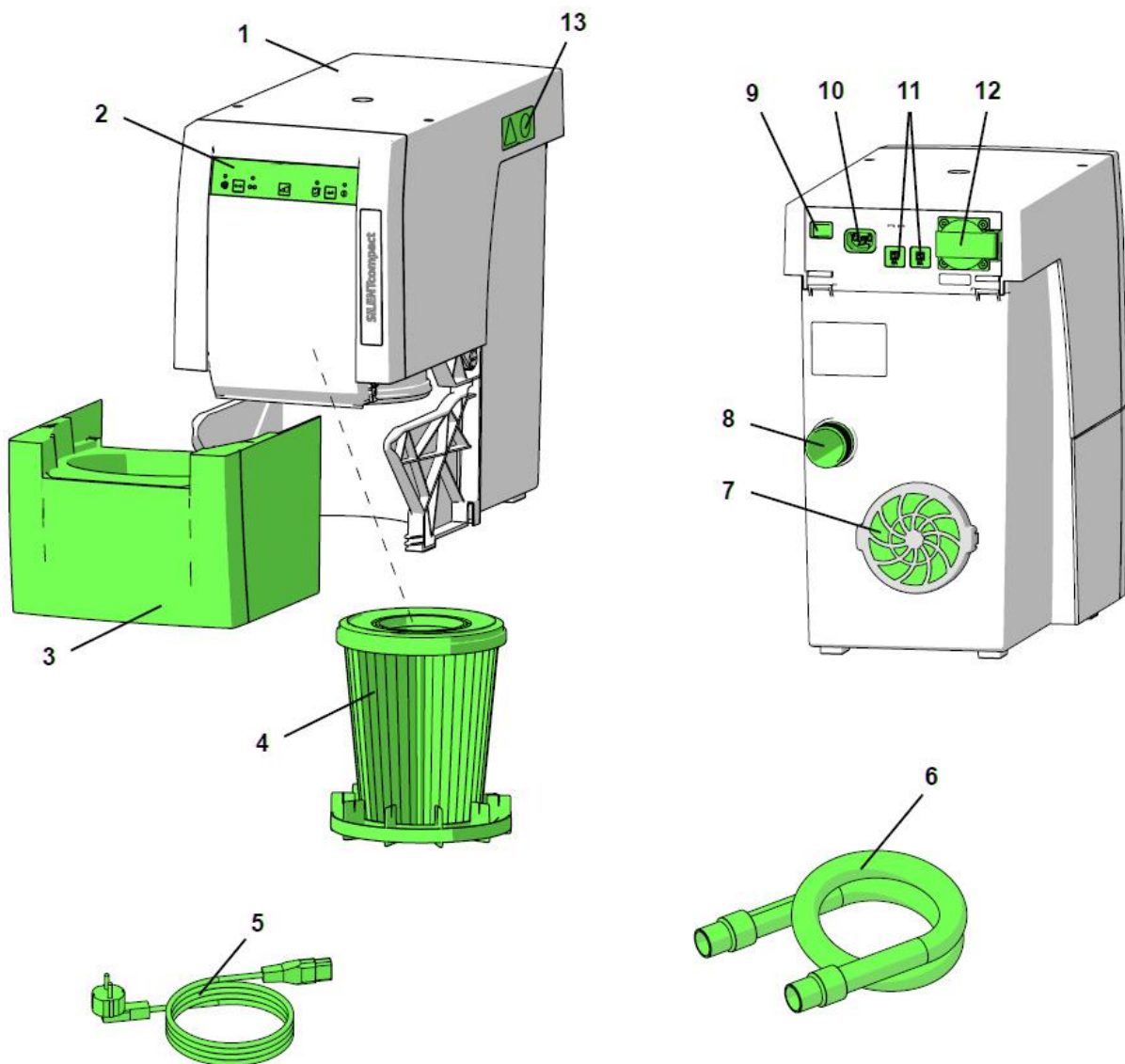
5 Technical description

5.1 Overview

This device is designed to extract dry, non-explosive dust. The unit is intended solely for use in a commercial Industrie laboratory and Industrie practice.

The intended use also includes compliance with the instructions specified by the manufacturer concerning operation, servicing and maintenance.

5.2 Components and Functional Elements



1 SILENT compact

2 Key-Pad

3 Dust drawer

4 Fine Filter

5 Mains cable

6 Suction hose

7 Exhaust air filter / Exhaust air outlet

8 Suction port

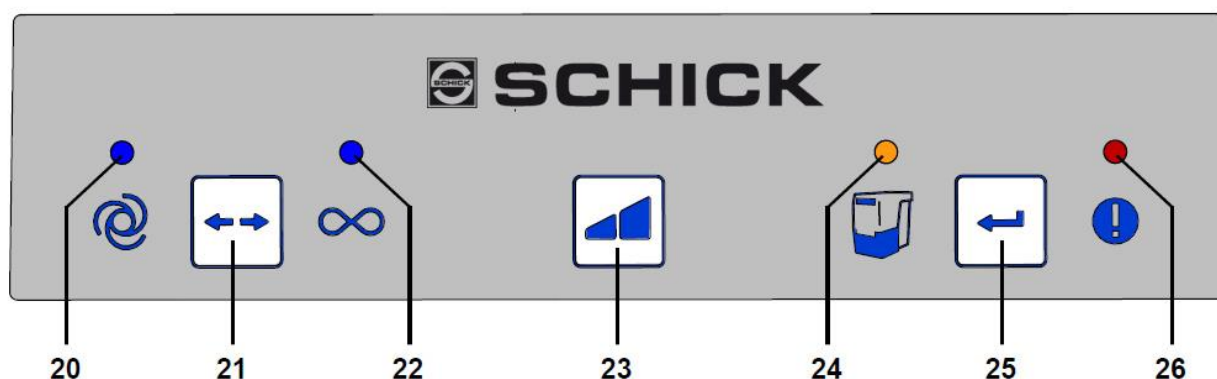
9 On / Off switch

10 Power supply

11 Device protection switch

12 Unit power socket

13 Service flap



- 20 Display automatic operation
- 21 Operating mode key, automatic, continuous operation
- 22 Display continuous operation
- 23 Suction level key
- 24 Display empty suction drawer
- 25 Enter key, save input
- 26 Display error message

6 Setting up

6.1 Unpacking

- Remove the device and all the accessories from the delivery package.
- Check the delivery for completeness (refer to the Scope of Delivery section).

6.2 Setting up

The extraction unit is a free standing appliance which must not be operated in a lying position.

Position the extraction device so that:

- The exhaust vent (7, Fig. 1) is not blocked.
- The front of the device is easily accessible for removal of dust drawer.

If the device is to be installed in a cabinet, an opening for the exhaust air with the following dimensions must be provided, in addition to the openings for the suction hoses:

- Circular opening: Min. 120 mm diameters.

- Rectangular opening: Min. 170 x 65 mm.

It is advisable to use external ventilation (see accessories) (see chapter 4.6).

6.3 Electrical Connection



Before connecting the device, ensure that the voltage information on the identification plate corresponds with your local power supply.



Arrange the conducting parts (plug sockets, plugs and couplings) and install the extension cord so that the protection class is retained.

- Switch the device OFF at the On / Off switch (9).
- Connect the power cable (5, Fig. 1) to the power supply (10).
- Insert the power plug into the building installed wall socket.

6.4 Connection to the Extraction Point

- Insert the suction tube (6, Fig. 1) into the suction port (8).
- Connect the suction tube to the relevant suction point.
- If necessary, shorten the suction tube.



Caution, risk of injury!
When shortening the suction tube, please ensure that the integrated wire is cut as straight as possible.

If the diameter size does not correspond, please use an adapter (see accessories) to prevent a loss in suction performance.

Long suction hoses, tight bends and kinks will considerably reduce the extraction force at the extraction point.

Avoid steep pitches or hanging points along the hose path.

6.5 Electrical Connection

- Connect the electronic device to the power socket (12) at the back.



When connecting an electronic device to the extraction unit, please ensure that the maximum permissible capacity for connected devices is not exceeded.

6.6 External Exhaust Air Route

An external exhaust air route (see accessories) allows the extracted air to leave the laboratory. The installation details are supplied with the external exhaust air route.



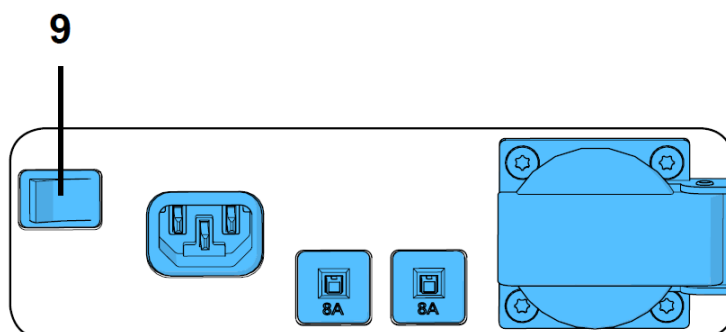
When the extraction unit is used in conjunction with an external ventilation system, a significant quantity of air is extracted from the room per hour. This can create negative pressure within the room which, when using an air dependent naked flame fed by gas, liquid or solid fuel, can cause poisonous gasses (e.g. carbon monoxide) to be drawn into the working area. It is therefore essential to ensure that the fresh air supply is sufficient and that the environmental air pressure is maintained, this should then be monitored by an authorized specialist (e.g. a certified Gas Service Engineer).

7 Operation

The extractor unit is operated via the buttons on the key-pad (Fig. 2).

7.1 Switching the Unit On

The extractor is switched ON and OFF at the On / Off switch (9).



- When the unit is switched on:
 - ✓ all 4 displays shortly light up (Display performance check),
 - ✓ the extraction unit carries out an automatic filter cleaning.

Then the unit returns to the last set operating mode.

7.2 Select Mode: automatic / continuous operating

The extraction unit has two operating modes.

The set operating mode is shown in the display (20) / (22).

- Automatic (20):

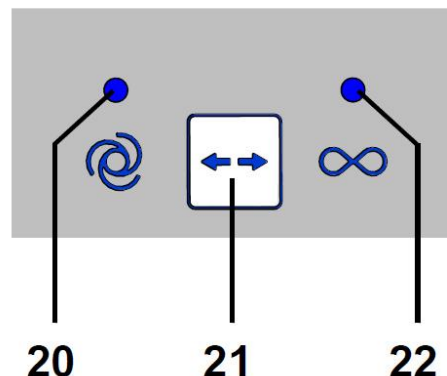
In order to function, the extraction unit is dependent on an electronic device connected to the power socket (12).

- Continuous operating (22):

The extraction unit runs continuously.

- Press the operating mode key (21).
- To change the operating mode.

In order to start and stop the suction during continual operation, use the key operating mode (21). The on-off switch should not be used for this.

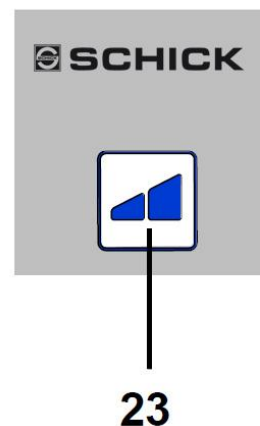


7.3 Suction Level

The suction level key (23) allows selection between two suction levels.

The selected suction level is not shown.

The extraction unit always starts with the last set suction level.



7.4 Filter Cleaning

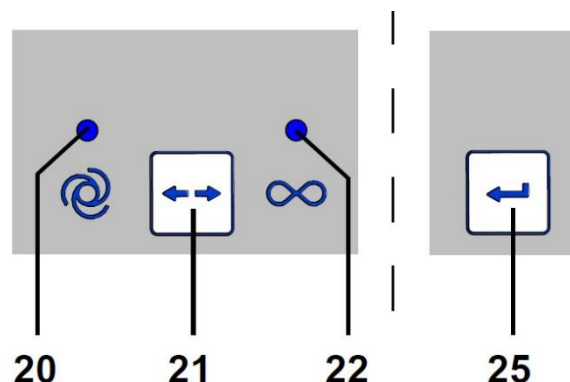
In order to guarantee maximum suction performance, the unit is equipped with an automatic cleaning function for the filter unit. The cleaning function takes approx. 8 sec.

The cleaning process is carried out:

- When the unit is switched on;
- Before the dust drawer is removed, when the cleaning function is activated (see chapter 6.2 Empty dust drawer);
- When the unit has been in operation (turbine running time) for more than 16 hrs without having been switched off in between.

7.5 Setting the switch-on threshold for the automatic operation mode

Set the switch-on threshold, the moment when a connected electronic device starts the extraction unit.



- Automatic mode is selected; the display (20) lights up (if the unit is not already in this mode, switch to automatic mode).
 - Press the operation mode key (21) for at least 3 seconds.
 - ✓ The display for automatic operation (20) blinks.
 - ✓ The display for continuous operation (22) is off.
 - Switch the electronic device off or switch the device to stand-by mode (e.g. with a hand-piece, only switch the control device on without activating the handpiece).
 - Press the enter key (25).
 - ✓ The display automatic operation (20) lights up.
 - ✓ The display continuous operation (22) blinks.
 - ✓ An acoustic signal will confirm the setting.
-
- Switch the electronic device on, e.g. activate the handpiece at the rpm at which the extraction unit should function and let it run for 3 - 5 seconds (to allow for over currents which occur when the device is initially switched on).
 - Press the enter key (25) (whilst the handpiece is still in use).
 - ✓ The display for automatic operation (20) and continuous operation (22) light up at the same time for approx. 2 seconds.
 - ✓ An acoustic signal confirms the setting. The set switch-on threshold is saved.

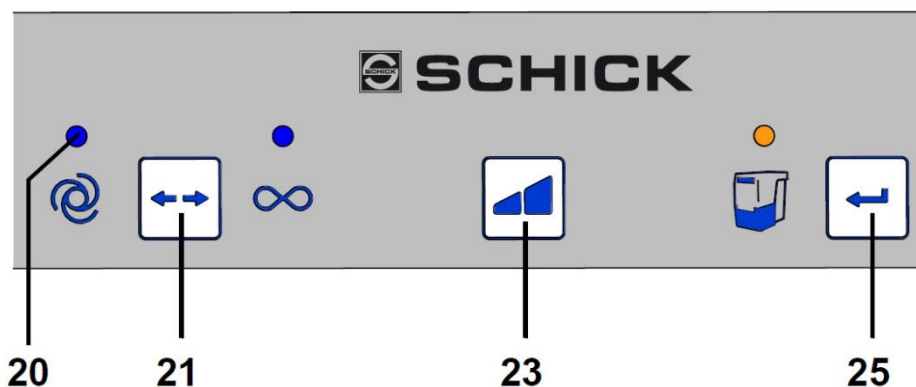


Devices with a stand-by mode should be switched on approx. 5 minutes before setting, in order to prevent measurement errors. If there is a fault with the switch-on threshold, the error display (26, Fig. 2) will show and an acoustic signal will be emitted 3 times. Press the enter key (25) and repeat the programming.

7.6 Deactivating the automatic start in the automatic operation mode

This special function allows the automatic extraction start in the automatic operation mode to be temporarily deactivated, e.g. when handpiece use is required without suction.

This special function is only available in the automatic operation mode.



- ✓ The automatic function is set (display (20) is alight).
- Press the suction level key (23) for at least 3 seconds.
- ✓ An acoustic signal will confirm the deactivation.
- The display automatic operation (20) blinks.
 - In order to re-activate the automatic start:
- Press keys (21, 23 or 25), or switch the unit off at the on/off switch (9, Fig. 1).

8 Cleaning / Maintenance

Opening the device, other than for the processes described below, is not permissible!

8.1 Cleaning

Use a damp cloth to clean the outside of the unit.

Do not use abrasive or solvent-based cleaning agents.

8.2 Empty Dust Drawer

After the set time period has expired (see chapter 6.2.1), a signal to empty the dust drawer will occur. Before the dust drawer is emptied, a filter cleaning function is carried out so that loose dust particles fall into the dust drawer.

The time period has expired:

- ✓ An acoustic signal will occur 3 times.
- ✓ The display dust drawer (24) lights up.

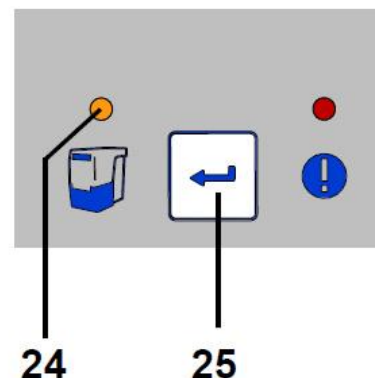
When the suction has stopped, an acoustic signal occurs 3 times and a filter cleaning function is carried out.

When the filter cleaning function has finished:

- Pull the dust drawer (3, Fig. 1) out to the front and empty.
- Replace the dust drawer until it clicks into place.
- Press the enter key (25) (the counter which determines the time period is re-set).
- ✓ An acoustic signal confirms the input.
- ✓ The display dust drawer (24) light disappears.



If the dust drawer is not emptied, the display for the dust drawer will remain alight (24, Fig. 11). When the unit is switched off/on an acoustic signal will occur to remind that the dust drawer needs emptying.

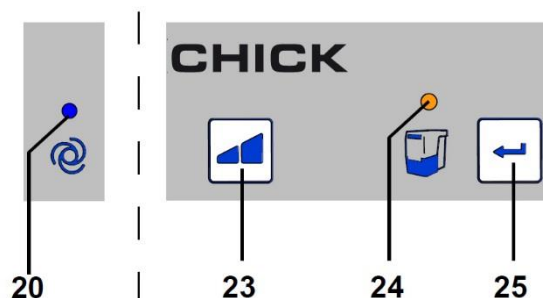


9 Setting the time period “Empty Dust Drawer”


Five different time periods can be selected.

Zeitintervall / Std.	Blinkintervall
2	1 x
5	2 x
10	3 x
50	4 x
100	5 x

To select time period:




- Switch the unit off at the on/off switch (9, Fig. 1).
- Switch the unit on at the on/off switch and keep the enter key (25) pressed until:
- ✓ The display automatic mode (20) lights up.
- ✓ The display dust drawer (24) signal blinks in correspondence to the set time period.
- ✓ When the unit is switched on all 4 displays shortly light up (Display performance check).

- Select the required time period by pressing the suction level key (23).
By pressing this key it is possible to choose between 5 time periods. The selected time period is shown with the corresponding blink signal. When the required time period has been selected:
- Press the enter key (25).
- ✓ The display dust drawer (24) lights up for 2 seconds.
- ✓ An acoustic signal confirms the input.
-  With strong dust-generating devices (e.g. sandblasting units) the time period for the “empty dust drawer” should be adjusted to 2 hrs. or 5 hrs.

9.1 Change Fine Filter

As a fine filter, it contains a two-stage filter system category M. This ensures a high level of health protection and a long service life for the extraction system. To ensure this function, please note the following:

- If the suction power is no longer sufficient in spite of a filter cleaning, the fine filter must be changed.
- In general, the fine filter should be changed every 2 years.
-  Do not clean the fine filter manually (e.g. with compressed air, brush, water, etc.), as this leads to damage of the filter material!

When installing the fine filter please ensure that it is positioned correctly, otherwise leakages may result. See the assembly instruction at the end of the instruction manual, which is also attached to the new fine filter.

9.2 Safety Mechanism

The extractor is safeguarded by two device overload switches (11, Fig. 1).

If an overload switch is released, it can be reset by pressing the button back in.



If the protection switch is repeatedly released, this shows the device has a fault. Send the device to be repaired!

9.3 Factory Settings

- Switch unit off (9, Fig. 1).
- Press the keys operating mode (21, Fig. 2) and suction level (23, Fig. 2) at the same time and switch the unit on (9, Fig. 1).
- ✓ All 4 displays blink thrice.
- ✓ All values are now re-set to the factory settings.

10 Troubleshooting

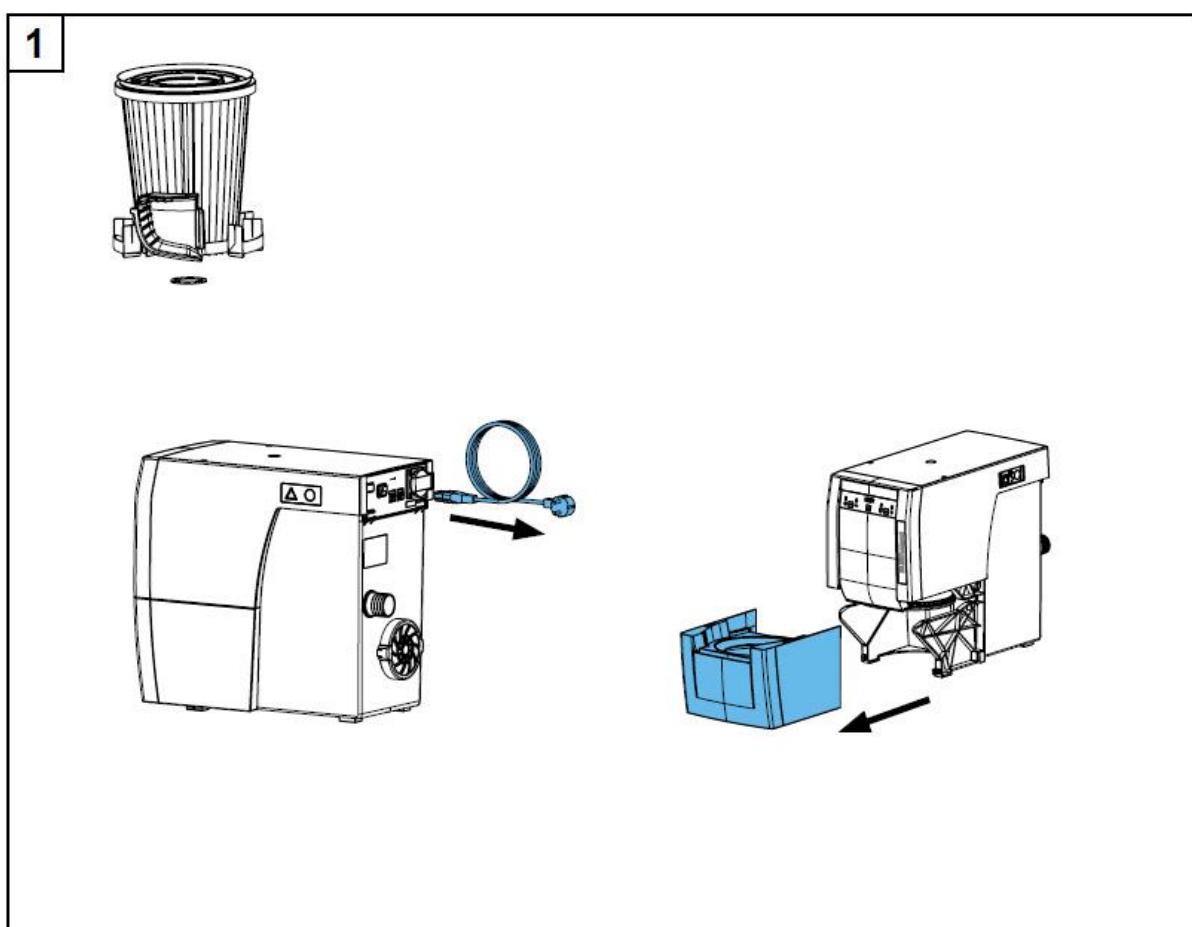
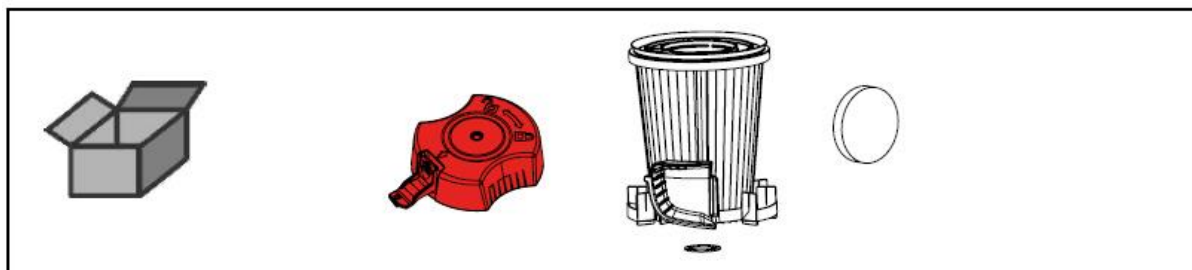
Trouble	Possible Cause	Corrective Action
During an interruption in operation, an acoustic signal occurs 3 times and then the filter cleaning function is carried out.	<ul style="list-style-type: none"> After 16 hrs constant operation (turbine running time) without having been switched off in between, the filter cleaning function is carried out 	<ul style="list-style-type: none"> Always switch appliances off at the on/off switch at the end of the working day (9, Fig 1)
When the unit is switched on, the display dust drawer (24, Fig. 12) lights up and an acoustic signal occurs 3 times.	<ul style="list-style-type: none"> The time period for emptying the dust drawer has elapsed and the dust drawer has not yet been emptied The emptying of the dust drawer has not been confirmed. 	<ul style="list-style-type: none"> Empty the dust drawer and confirm by pressing the key (25, Fig 12) Empty the dust drawer and confirm by pressing the key (25, Fig 12)
Display error (26, Fig. 2) lights up and an acoustic signal occurs 3 times.	<ul style="list-style-type: none"> The difference between the chosen rpm at the handpiece and the stand-by current is too low; it is not possible to determine the switch-on threshold It is not possible to determine the switch-on threshold 	<ul style="list-style-type: none"> Determine the switch-on threshold by increasing the rpm on the handpiece Use the unit in continuous operating mode
The error message (26, Fig. 2) blinks.	<ul style="list-style-type: none"> The electronic device has become too hot 	<ul style="list-style-type: none"> Switch the device off and allow it to cool down Ensure sufficient cooling, e.g. with: <ul style="list-style-type: none"> Chapter 42 installation instructions External ventilation (see chapter 46) Change fine filter.
The suction performance is insufficient.	<ul style="list-style-type: none"> The set suction performance is too low There is a blockage or leak in the suction tube Dust drawer is not airtight The fine filter is full. 	<ul style="list-style-type: none"> Select higher suction level Check suction tube Please observe the points in chapter 44 Check the dust drawer is in the correct position (chapter 62) Switch the unit off and back on in order to initiate the filter cleaning function. Change the fine filter (see chapter 6.3) (if there is no improvement in suction performance after the filter cleaning process)
Dust drawer is over full.	<ul style="list-style-type: none"> The time period for "empty dust drawer" has been set too high 	<ul style="list-style-type: none"> Adjust to a lower time period (see chapter 62 1)
The signal to empty the dust drawer shows even though the dust drawer is not yet full.	<ul style="list-style-type: none"> The time period for "empty dust drawer" has been set too low 	<ul style="list-style-type: none"> Adjust to a higher time period (see chapter 62 1)
The electronic device connected to the unit power socket cannot be operated.	<ul style="list-style-type: none"> Suction is not switched on 	<ul style="list-style-type: none"> Switch the suction on

The suction starts even though the electronic device connected to the unit is not being used.	<ul style="list-style-type: none"> • The switch-on threshold for the automatic operation mode is set too low • Malfunction due to another device using the same power circuit 	<ul style="list-style-type: none"> • Re-set the switch-on threshold for the automatic mode (see chapter 5.5) • Connect the extraction unit and the device causing interference to different power circuits (phases)
The suction does not stop when the electronic device is switched off.	<ul style="list-style-type: none"> • The switch-on threshold for the automatic operation mode is set too low • Malfunction due to another device using the same power circuit 	<ul style="list-style-type: none"> • Re-set the switch-on threshold for the automatic mode (see chapter 5.5) • Connect the extraction unit and the device causing interference to different power circuits (phases)
The suction does not start even though the electronic device is connected to the extraction unit.	<ul style="list-style-type: none"> • The switch-on threshold for the automatic operation mode is set too high • Malfunction due to another device using the same power circuit 	<ul style="list-style-type: none"> • Re-set the switch-on threshold for the automatic mode (see chapter 5.5) • Connect the extraction unit and the device causing interference to different power circuits (phases)
The suction suddenly stops during automatic operation, even though the device connected at the appliance socket is still in use. The signal for automatic operation (20, Fig. 2) is still on.	<ul style="list-style-type: none"> • Malfunction due to another device using the same power circuit 	<ul style="list-style-type: none"> • Connect the extraction unit and the device causing interference to different power circuits (phases)
In the automatic operation mode, the suction starts after an unusually long delay time.	<ul style="list-style-type: none"> • Malfunction due to another device using the same power circuit 	<ul style="list-style-type: none"> • Connect the extraction unit and the device causing interference to different power circuits (phases)
The suction does not start after long transportation or after change of turbine.	<ul style="list-style-type: none"> • The connection plug behind the service flap (13, Fig. 1) is not completely inserted 	<ul style="list-style-type: none"> • Open the service flap (13, Fig. 1) and push the connection plug fully up to the top
When the unit is switched on, not all of the displays light up.	<ul style="list-style-type: none"> • The display which does not light up is defect 	<ul style="list-style-type: none"> • Contact Schick / Service
The fuse is released when a connected electronic device is switched on.	<ul style="list-style-type: none"> • The total capacity for the connected devices is too high 	<ul style="list-style-type: none"> • Observe the max. connected capacity (see chapter 8)
The suction process in the continuous operation or automatic operation stops abruptly and the relevant displays are still on (20 / 22, Fig. 2).	<ul style="list-style-type: none"> • The suction turbine is overheated • The suction turbine is defect 	<ul style="list-style-type: none"> • Switch the unit off and allow to cool down for at least 60 min • Check whether the suction tube is blocked Eliminate blockage • Switch the unit off and then on again, so that the filter cleaning process can be carried out • Change the fine filter (see chapter 6.3) (if the filter cleaning function does not improve the suction performance) • Change the suction turbine

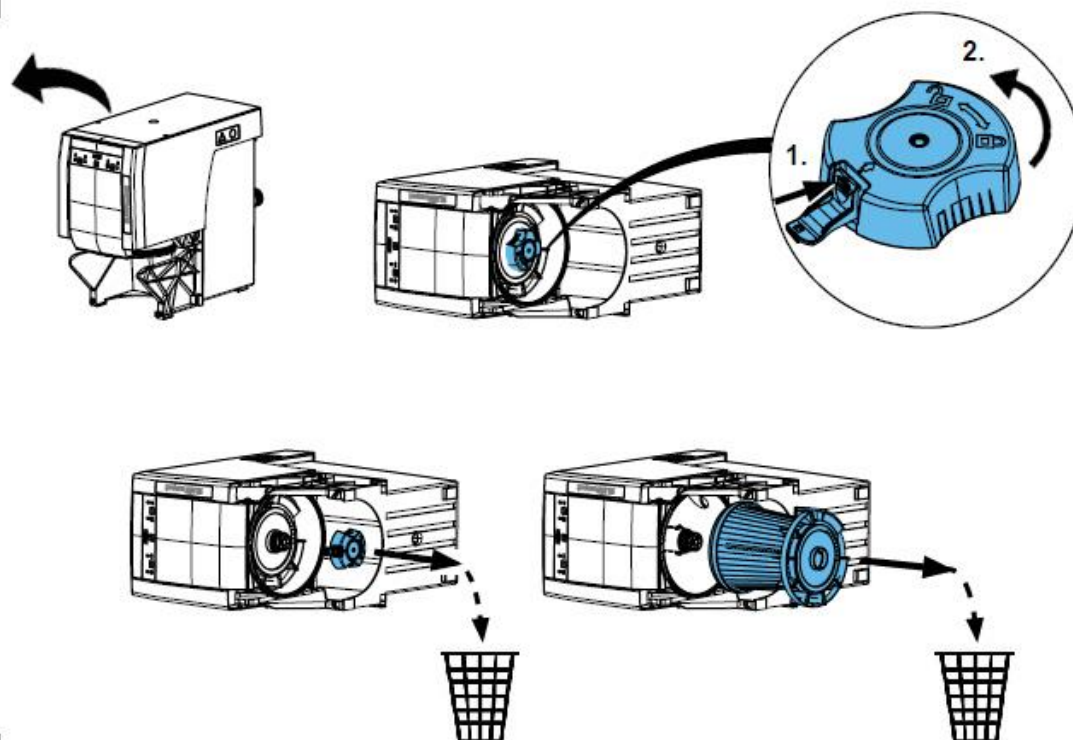
11 Technical data

	2934 0000	2934 1000	2934 1500
Nominal voltage:	230 V	120 V	100 V
Permissible mains voltage:	220 - 240 V	120 V	100 V
Mains frequency:	50 / 60 Hz	50 / 60 Hz	50 / 60 Hz
Suction turbine power *):	490 W	480 W	480 W
max. connecting power *):	1350 W	480 W	320 W
Total connected power *):	1840 W	960 W	800 W
LpA **) (at max. volume flow):	55 db(A)		
Filter quality:	Class M according to EN60335-2-69		
Weight (empty), approx.:	13,2 kg [29,1 lbs]		
Dimensions (width x height x depth):	245 x 440 x 500 mm [9,6 x 17,3 x 19,7 in]		

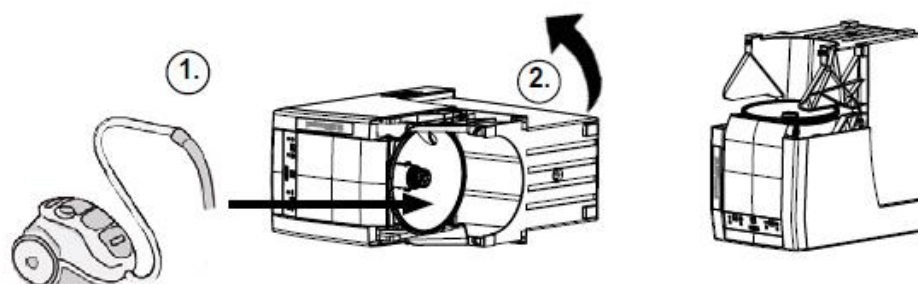
12 Assembly instructions for fine filter set



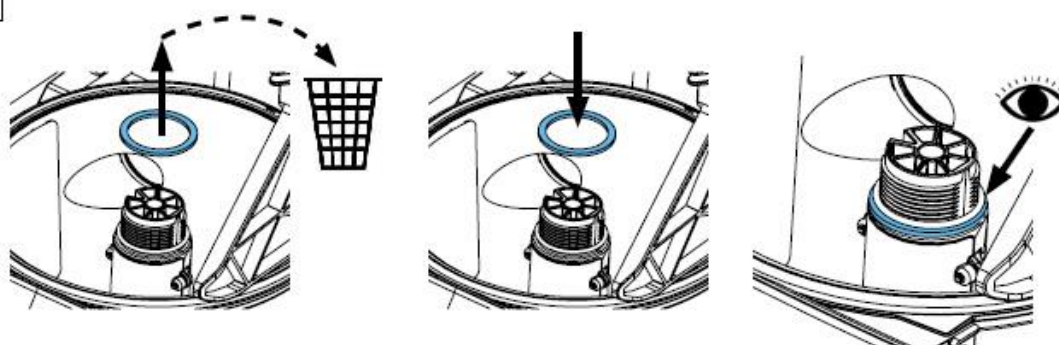
2

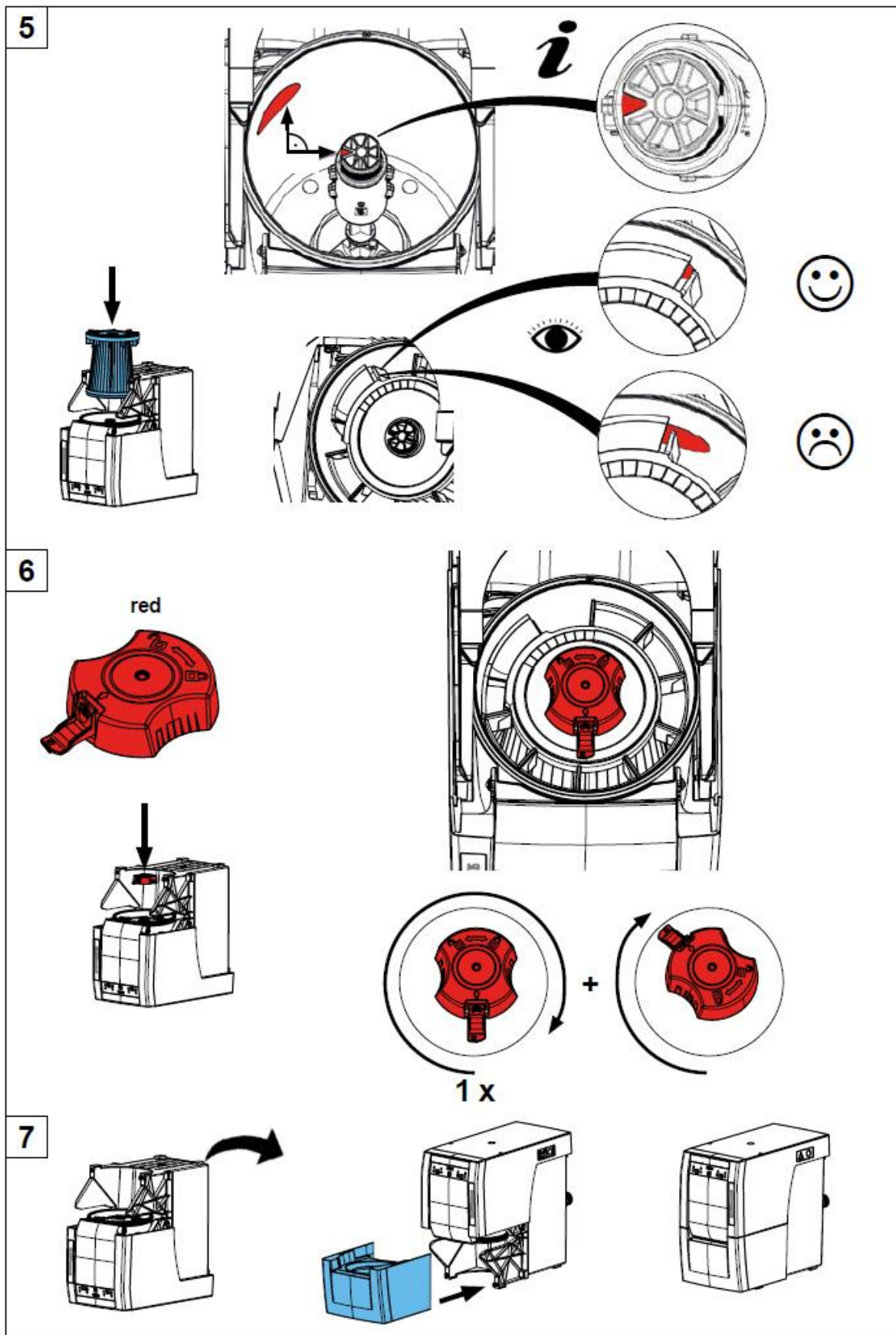


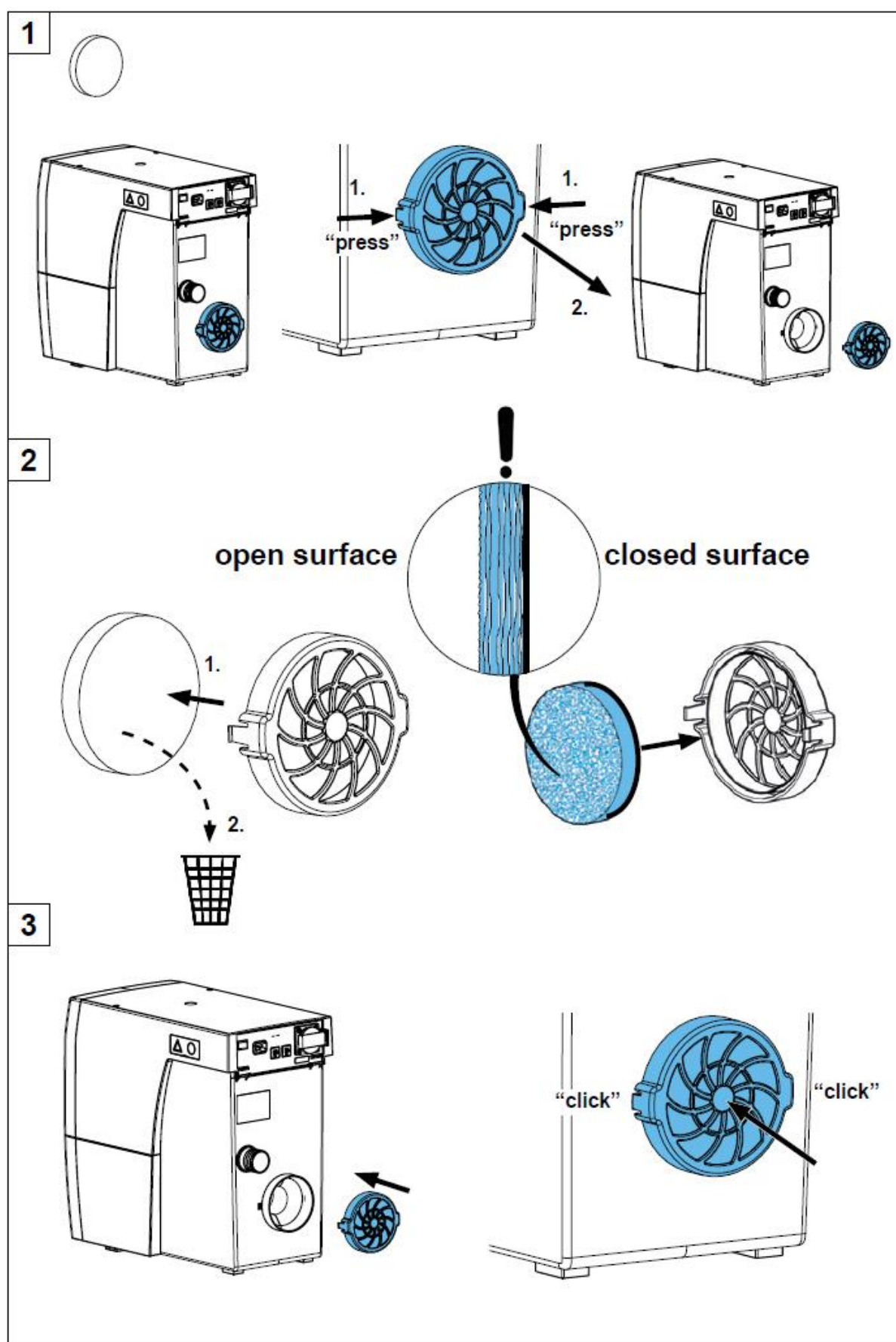
3



4







12.1 Service adress

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For service, please send your device directly to Schick GmbH at the above address.



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This unit complies with the current VDE (German association of electrical technicians) regulations concerning safety and suppression.

These operating instructions should be readily accessible and are best kept close to the unit itself.

We would like to take this opportunity to advise you that a proper repair service and suitable qualified personnel are required for such highly developed technical equipment. SCHICK GmbH guarantees to carry out perfect repairs using original spare parts.