

Operating Instructions




**Sonothermal Disinfection
Unit "MoveoSiphon ST24"
Rev. 5.0**



WARNING

Safety Precautions

- Please read and understand the following safety instructions fully prior to reading the rest of the operating instructions, and prior to installing, starting or operating the *MoveoSiphon ST24*. 
- These operating instructions are an integral part of the product *MoveoSiphon ST24*.
- These operating instructions must always be kept near the unit and should be available to the personnel at all times.
- Read all documentation that is supplied with the operating instructions. This may include: installation instructions, brief instructions on function monitoring.
- Read the safety and operating instructions in these instructions carefully.
- If the safety instructions are not followed, MoveoMed GmbH cannot accept liability.
- For your own safety, test the building's fault current circuit breaker regularly by pressing the test button.
- Do not operate the *MoveoSiphon ST24* unit with an electric extension cord or distributor strip.
- While the unit is running, do not touch the visible drain pipe under the sink. The unit disinfects the run-off with heat. **There is a risk of burning.**
- Make sure that children or persons with a mental or psychological disability do not have access to the *MoveoSiphon ST24* unit.
- Never attempt to carry out maintenance work on the product.
- Arrange to have malfunctions and damage repaired by a MoveoMed authorised customer service as soon as possible.

CE Mark

The MoveoSiphon ST24 unit is CE-certified.



The CE mark demonstrates that the product meets the principal requirements of the relevant guidelines as shown on the nameplate.

The manufacturer can supply a Declaration of Conformity.

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1 Description of the Unit

1.1 The Effect of the Disinfection Unit

The “MoveoSiphon ST24” sonothermal disinfection unit is a CE-certified disinfection system for odour traps in clinical sanitary areas. It continuously and completely cleans and disinfects the trap liquid in the odour trap under the washbasin automatically during the normal use of the basin. This practically prevents the appearance of pathogens completely from the washbasin drain while water is running, or when the sink is emptied.

The disinfection of the washbasin drain by the MoveoSiphon ST24 uses the following mechanisms:

1. Thermal disinfection, at least 80°C
2. Vibration cleaning, at least 50 Hz

During the thermal disinfection the unit heats up to the set temperature and cools down slowly during the subsequent vibration cleaning. When the set minimum temperature has been reached, the heating process begins and with it the new disinfection-cleaning cycle. If not interrupted by additional water flow, the MoveoSiphon will have reached its intended disinfection and cleaning capacity after around 1 hour. The entire process runs continuously until the level of the trap liquid drops below the minimum (see also section 4.3). The MoveoSiphon then switches into the inactive mode until water flows again. In the factory settings, a night mode is activated which places the unit in an idle state between the hours of 10.00 p.m. and 5.30 a.m. At 5.30 a.m., the disinfection-cleaning cycle then begins once again. This ensures that the odour trap is disinfected before the washbasin is used for the first time in the morning.

In laboratory studies for high microbial germ density, a single heating (1 disinfection cycle) was already sufficient to reduce the test germ contamination by at least 7 log stages.¹

Using factory settings, after several years of constant operation there is still no detectable biofilm formation on the inside of the odour trap. In addition, the vibration cleaning greatly reduces the danger of blockages.

¹Hygiene Nord GmbH (Greifswald): test report A 132228

The MoveoSiphon reduces the germ content of the odour trap liquid to a maximum of 1% of the critical amount for transfer to the hands.

The radius of effect of the MoveoSiphon includes the trap fluid and the inner wall of the siphon.

Germs above the trap fluid and in the washbasin itself are primarily not affected by the MoveoSiphon until they reach the trap fluid and run through the disinfection cycles of the unit.

The MoveoSiphon prevents biofilm formation in the odour trap, but cannot remove biofilm from the drainpipe or the plughole area of the washbasin, for example. However, micro-organisms from these tanks are treated with the disinfecting effect of the MoveoSiphon as soon as they travel into the trap fluid.

Signs of germs do not always mean danger of infection, but only when critical levels are reached or exceeded, taking into account the special situation of patients, personnel and the clinic area.

1.2 Technical Data

Sonothermal disinfection unit for odour traps: Medical hygiene siphon

“MoveoSiphon ST24” comprising one unit with the following components:

- a) Siphon section
Material: brass, chrome-plated
Diameter 1 ¼ inch
- b) Electrical heating
24 V, 55 VA,
Thermal fuse (response temp. 130 °C)
Heat-resistant insulation
- c) Electro-mechanical vibration cleaner
24 V, 5 VA, 50 - 200 Hz
- d) Level control for trap liquid
- e) Housing
Material: 4 mm ABS UL-94 HB listed, light grey
Size: H = 250 mm, W = 120 mm, D = 160 mm
- f) Drain
Material: brass, chrome-plated
Diameter 32 mm
- g) Function indicators (LED)
 - On/Off (green)
 - Disinfection (green)

- Cleaning (green)
 - Level indicator (yellow)
- h) Medical plug-in power supply 24 V, 60 VA
 Approvals: Double Insulation CB 6060601-1 2 MOPP, EN/IEC 60335-1
 RoHS (Restriction of certain Hazardous Substances) compliant

2 Safety Notes

2.1 Intended Use

Use the MoveoSiphon only to disinfect odour traps under washbasins in hospitals.



Normal use also includes taking into account the enclosed operating instructions for the product, along with the documents supplied with the operating instructions. This may include: installation instructions, brief instructions on function monitoring






In case of improper use or misuse of the product there is a risk of serious injury or death for the user or others, or damage to the product and other property.

2.2 Safety Markings


The following safety markings and instructions are used in these operating instructions. Please familiarise yourself with them and be sure you

understand the meaning of the markings and instructions.

 WARNING	WARNING indicates a hazardous situation which, if not avoided, could result in death or serious injury.
 CAUTION	CAUTION indicates a hazardous situation which, if not avoided, may result in minor or moderate injury.

NOTICE	NOTICE indicates information that is considered important and must be observed, but is not related to a risk of serious injury or death (e.g. there is a risk of property damage if not avoided).
	Danger of injury by heat generation.
	Danger of electric shock.
	One section requires particular attention.
	Wear protective clothing and gloves.
	Wear safety goggles.

2.2.1 Burns from heat generation



Caution



Danger of injury by heat generation in drain pipe!

- While the unit is running, do not touch the visible drain pipe under the washbasin.
- The unit disinfects the run-off with heat. In the process, parts and components of the washbasin's drain can become hot.

Touching the drain pipe or the washbasin drain may result in burns to the hands and arms.

2.2.2 Material damage by using unsuitable chemicals

NOTICE



Risk of material damage by using unsuitable chemicals/disinfection products!

- Do not use caustic products.
- The product's components may suffer damage if unsuitable chemicals are used. The warranty does not cover damage of this sort.

2.3 Use of Chemicals



WARNING

If working with chemicals when decalcifying the siphon (Section 8.2) or when disinfecting after putting the unit back into operation (Section 9.3), please observe the instructions provided by the manufacturer of the chemicals used.

There is a risk of acid burns, chemical burns or skin irritations if the chemical is used improperly or the safety precautions taken are insufficient.

3 Notes on Documentation

3.1 Observe Other Applicable Documents

Make sure that you observe all documents supplied with these operating instructions. This may include: installation instructions, brief instructions on function monitoring.

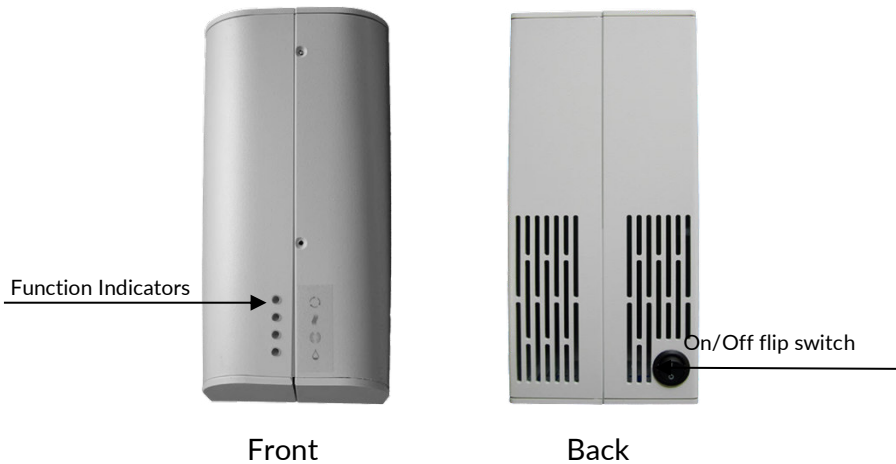
3.2 Storing Documents

Store these instructions and all other applicable documents in a safe place for further use.

4 Structure and Function of the Unit

The disinfection unit consists of a two-piece housing which encloses the disinfection unit.

- The function indicators are located on the front. The On/Off switch is located on the back.



Medical plug-in power supply

4.1 Operation of the DISINFECTION Thermal Unit

The thermal disinfection unit is operated and monitored by means of a thermostat and level sensor. The heating is regulated by the thermostat. The level sensor takes over the protective function, so that the heating only switches on when there is liquid (trap fluid) in the siphon. This prevents the trap fluid from drying out and ensures that the odour trap functions properly at all times. The maximum temperature of the trap fluid inside the odour trap is 95 °C.

4.2 Operation of the CLEANING Thermal Unit

The vibration cleaner switches on when the set disinfection temperature is reached and serves to remove particles that have attached to the inside wall of the odour trap. This prevents the formation of a biofilm on the inside wall of the odour trap. In addition, this also reduces the risk of blockages within the odour trap.

4.3 Run-dry Protection

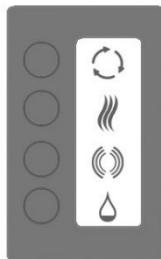
The disinfection unit is protected against running dry by means of an electronic level sensor. It ensures that the odour trap retains its function even if the wash basin remains unused for long periods. If the level drops below the minimum, the system switches off until the required level is once again reached.

4.4 Serial Number

The serial number is found on a sticker on the product housing.


5 Function Indicators

The function indicators are located on the front of the disinfection unit:







Constant operation (LED lamp is GREEN)


Information: The unit is switched on (24 V supply is available).
The unit is ready for operation.

Note: If the  “CONSTANT OPERATION” LED lamp is **not** lit even though the mains supply is connected: see Section 10.3 Fault Analysis and Actions.


Disinfection (LED lamp is GREEN)

Information: If the  “DISINFECTION” LED lamp is lit, the heating for the disinfection unit is in operation. The  “DISINFECTION” LED lamp remains lit until the required temperature has been reached in the disinfection unit.


If the  “DISINFECTION” LED lamp has gone out and the  “FILL LEVEL” LED lamp is not lit, then the required temperature has been reached and the heating is inactive.


Test: Let the cold water run, so that the  “DISINFECTION” LED lamp lights up again.
The process can take some time.

Cleaning (LED lamp is GREEN)

Information: The  “CLEANING” LED lamp lights up for several minutes immediately after the maximal temperature for disinfection has been reached.

Fill level (LED lamp is YELLOW)

Information: If the  “FILL LEVEL” LED lamp is lit, then the minimum level has been reached and the disinfection is complete.
The unit is in inactive mode!

Test: Let the water run until the  “FILL LEVEL” LED lamp goes off and the “DISINFECTION” LED lamp goes on. The process can take some time.

6 Installation and Start-up

Installation and start-up of the unit is carried out by employees of MoveoMed GmbH or by personnel authorised by MoveoMed GmbH. After an initial test run, the unit is handed over optimally set, calibrated, and switched on.

6.1 Connection Requirements

The following connection requirements are essential for installing the unit:

1. A shockproof socket, which is secured by a ground fault circuit breaker.
2. The socket must be accessible.

6.2 Switching on the Unit

To switch the unit on, proceed as follows:

1. Insert the plug into the electrical socket.







WARNING!


Risk of electric shock!


- Do not insert the plug into the outlet if your hands are wet.
- Do not insert the plug into the outlet if you notice any moisture or leaks around the installation environment. Inform the technical staff immediately.

Electric shock may cause severe or fatal injuries.

2. Switch the flip switch to position “1” (ON).
3. The  “CONSTANT OPERATION” LED lamp is now lit.
4. After around 2 seconds the  “FILL LEVEL” LED lamp will light up.
5. When there is enough liquid in the disinfection unit, the  “FILL LEVEL” LED lamp will go off immediately and the  “DISINFECTION” LED lamp will light up.



If the  “DISINFECTION” LED lamp does not light up, run cold water until the lamp lights up, and then turn off the water again.











6. The disinfection and cleaning cycle start automatically. The  “CONSTANT OPERATION” LED lamp is permanently lit as long as there is a 24 V power supply.

The unit remains switched on as long as the plug is in the socket.



7 Operation

7.1 Function Processes and Testing

The function test is performed daily by the user by visually inspecting the LED lamps on the front of the disinfection unit under the washbasin.

1. The disinfection unit is switched on and working if the green  "CONSTANT OPERATION" LED lamp is lit.
2. During the active heating phase of the disinfection unit, the green  "DISINFECTION" LED lamp also lights up. Once the set disinfection temperature has been reached (max. 95°C), the  "DISINFECTION" LED lamp goes off
3. Subsequently, the  "CLEANING" LED lamp lights up for about 5 minutes. During this time, in some cases (installation under a stainless steel sink) a slight humming sound may be heard (resonance as a result of vibration).
4. The  "CLEANING" LED lamp will then go off. Now only the  "CONSTANT OPERATION" LED lamp is lit.
5. Once the set minimum temperature has been reached (e.g. 70°C), the  "DISINFECTION" LED lamp lights up again. The disinfection cycle starts again.
6. When the minimum permitted water level in the disinfection unit is reached (after about 60 minutes if the disinfection is not interrupted by the addition of water), then the  "FILL LEVEL" LED lamp lights up. Disinfection has now been fully completed. The DISINFECTION and CLEANING functions are now in the inactive mode until water flows again.
7. To check the function, run water into the unplugged washbasin once again until the  "FILL LEVEL" LED lamp goes off and the  "DISINFECTION" LED lamp does on.
8. The DISINFECTION - CLEANING - DISINFECTION cycle now starts again.

7.2 Daily Function Checks

Check	Diagnosis and Action	Time Interval
Function check	Visually inspect the LED indicator lamps: The  "CONSTANT OPERATION" LED lamp and the  "DISINFECTION" LED lamp have to light up simultaneously when cold water runs. Actions to take if the indicator lamp is off: see section 10.3	1 x daily

Daily Visual Inspection of the Function Indicator

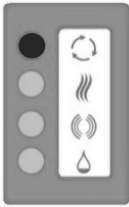
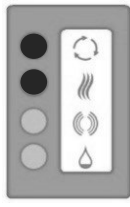
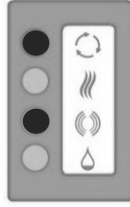
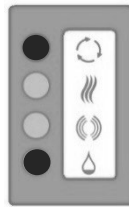
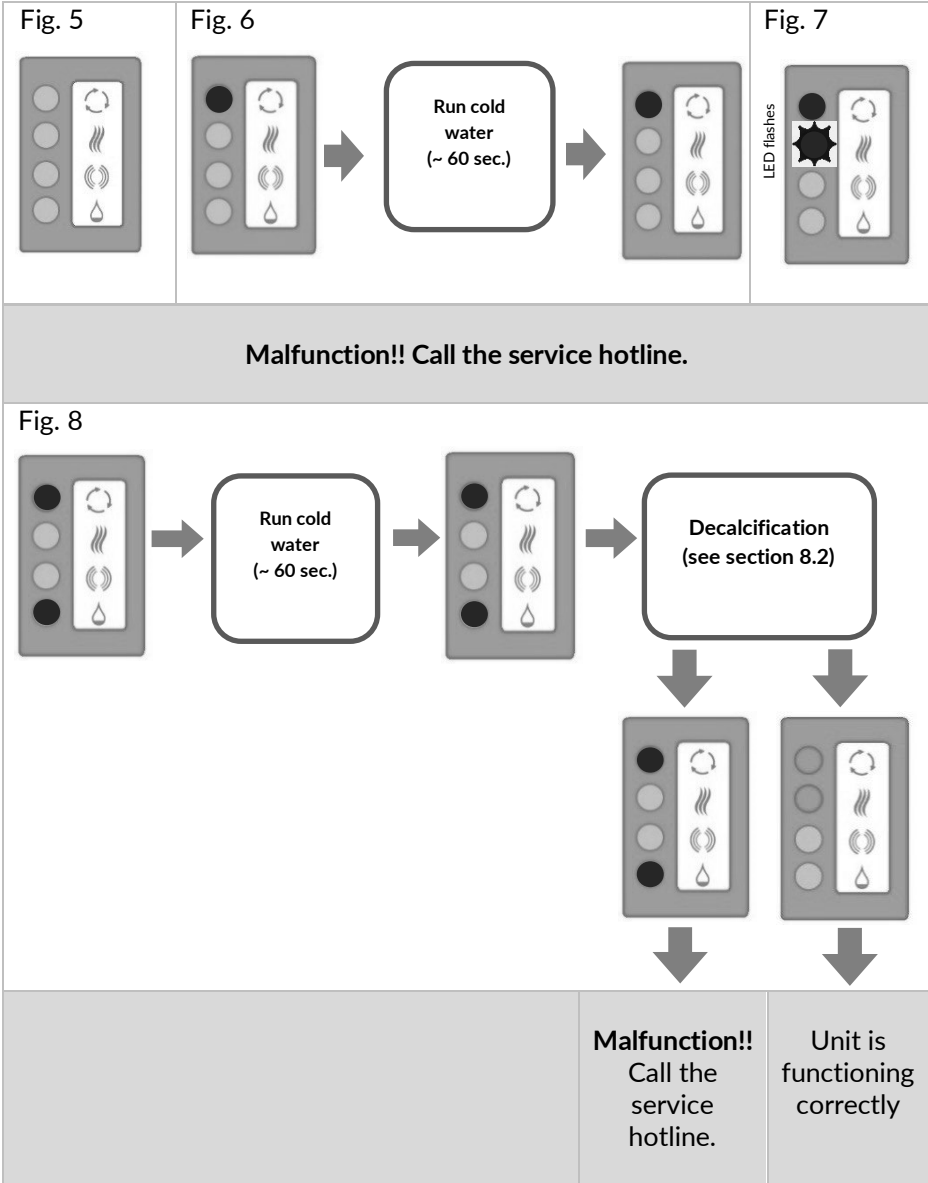
Fig. 1	Fig. 2	Fig. 3	Fig. 4
			
Unit is functioning correctly. Constant operation	Unit is functioning correctly. Disinfection	Unit is functioning correctly. Cleaning.	Unit is functioning correctly. Fill level.

Fig. 1 – 4 Standard operating states



7.3 Taking Microbiological Samples

- In addition to the daily visual inspection using the LED lamps on the disinfection unit, you can also carry out microbiological sample tests as described below.
- You can carry out the microbiological tests after the unit has run through several disinfection cycles in sequence. To do so, 60 minutes before taking the sample, allow water to flow until the ☸ “DISINFECTION” indicator lamp lights up. Afterwards, do not use the basin until the sampling is complete.

7.3.1 Material

The following is required for each microbiological sample:

- A sterile 10 ml syringe*
 - A sterile cannula (minimum length 25 cm/9.84 in.)*
 - Sterile silicone touch protection
 - A sterile sample container.
- *alternatively: sterile disposable Pasteur pipette; 1.5 ml/230 mm (9.06 in.)

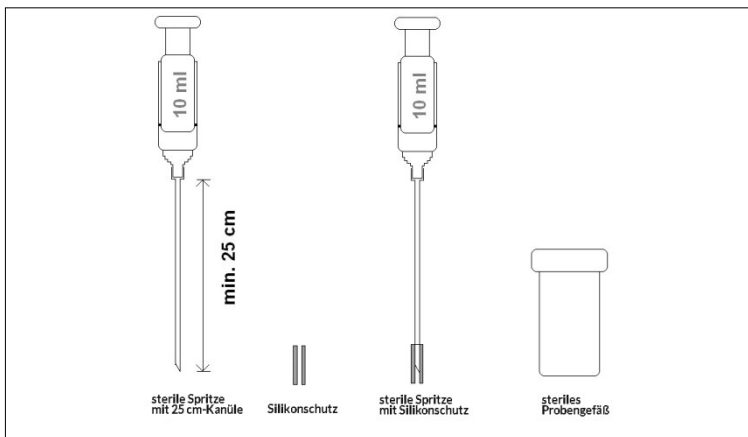


Figure 1: materials needed for sampling

7.3.2 Method

1. Cover the sterile cannula with the sterile silicone protection. The silicone protection must protrude around 0.12 in./3 mm beyond the tip of the cannula.
2. Place the sterile cannula onto the sterile syringe.
3. Insert the cannula as centrally as possible through the middle of the drain sieve, dipping it into the trap liquid without touching the sides of the pipe. The cannula has reached the bottom of the internal odour trap when pressure can be felt.
4. Withdraw 10 ml of sample liquid.
5. Place the sample liquid in the sterile sample container.
6. Transport into the laboratory

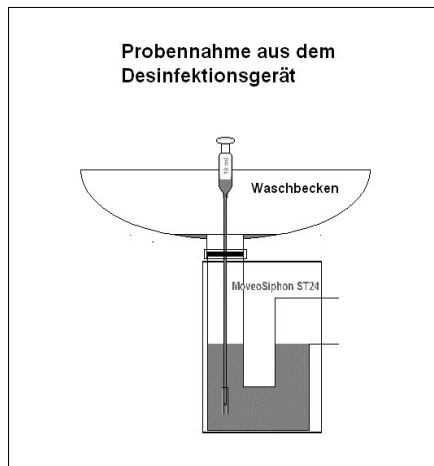


Figure 2: Sample-taking from the trap liquid in the disinfection unit

The following is a schematic and enlarged illustration showing how to take the sample.

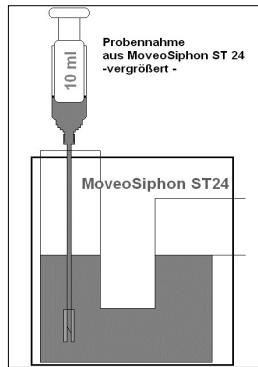


Figure 3: Correct sample-taking without wall contact (schematic and enlarged)

The procedure for sample-taking and filling into the sample container is as follows:

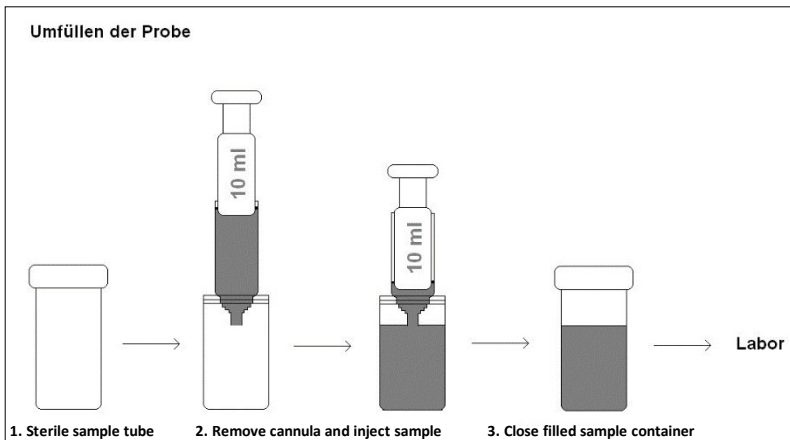


Figure 4: Procedure for filling sample into sample container

7.3.3 Sources of errors

If sample-taking is not carried out as described, the following errors may occur, preventing an exact assessment of the unit's functions.

The most frequent sources of errors are:

1. *Sample-taking at an unregulated time*
If the sample is taken at a random time, contaminated fluid can get into the disinfection unit shortly before the sample is taken. The disinfection is then not yet complete.
2. *Taking samples with a swab*
This is not permitted, because contact cannot be prevented with those parts of the washbasin and drain that are not subjected to disinfection by the MoveoSiphon ST 24.
3. *Inserting the cannula into the drain too quickly*
This usually leads to contact with those inside parts of the washbasin and drain that are not subjected to disinfection by the MoveoSiphon ST 24.
4. *Sample-taking after waste disposal in the washbasin*
An extremely high level of germ contamination can result in some remaining germs being detected in the trap liquid despite effective disinfection cycles.
The MoveoMed GmbH company will be happy to provide further information on sample-taking.

8 Maintenance

8.1 Operating Phases

The unit works continuously and automatically.

The unit can only be serviced by employees of MoveoMed GmbH or their authorised technicians.

Checks must be performed and documented by the operator:

- A daily check to ensure that the unit is switched on
- A daily check of the disinfection unit functions

Please refer to sections 6.2, 7.1 and 7.2.

8.2 Removing Limescale

WARNING



If working with chemicals when decalcifying the siphon, always observe the instructions provided by the manufacturer of the chemical used.

Risk of acid burns, chemical burns or irritation to the skin or eyes.



- Before decalcifying, please put on goggles.
- Before decalcifying, please put on protective gloves.

There is a risk of acid burns, chemical burns or skin irritations if the chemical is used improperly or the safety precautions taken are insufficient.

To remove limescale from the MoveoSiphon unit, we recommend the use of citric acid-based products. Proceed as follows:



Important! It is essential to switch off the unit prior to decalcification (switch the flip switch to position "0" (OFF) or remove the plug from the socket; see also section 9.1).

1. Run cold water for about 20 seconds so that the unit cools down.
2. Now add the decalcification agent in accordance with the manufacturer's instructions.
3. Then run water for 3 minutes.
4. Switch on the unit again.

8.3 Maintenance by Customer Service

Maintenance work should be performed on the unit at least twice a year. This involves inspecting and, if necessary, replacing any parts which are subject to wear or ageing as well as checking the functions and safety of the unit.



The seals must be replaced at least once every year.

Regular maintenance of the unit is not only important for retaining its value but also contributes to operating safety. For this reason, have maintenance work performed at regular intervals. MoveoMed will be happy to advise you on this.

MoveoMed GmbH is not responsible for any damage to the unit resulting from insufficient maintenance.

The recommended maintenance intervals and scopes are always defined for normal operating conditions. In the event of extreme operating conditions, it may be necessary to have maintenance work performed more often.

Extreme operating conditions can be:

- High temperature settings
- Frequent disinfection of the washbasin

9 Switching Off and On

9.1 Switching Off

To switch the unit off, proceed as follows:


1. Switch off the unit via the flip switch, by switching it to position “0” (OFF). Only operate with ground leakage circuit breaker!
2. All LED indicator lamps go off.




9.2 Disinfection Before Restarting



If the unit has not been used for a long time, a preparatory disinfection is required, since it is highly likely that a biofilm has formed inside the siphon. The MoveoSiphon prevents biofilm formation in the odour trap, but is not designed to destroy an existing biofilm. For this reason, we recommend the use of an additional biofilm-destructive disinfection product, such as 'Find & Kill Disinfection' from MoveoMed.


9.3 Restarting

To switch the unit on again, proceed as follows:

1. Switch the flip switch to position “1” (ON).
2. The  “CONSTANT OPERATION” LED lamp is now lit.

3. After around 2 seconds the  "FILL LEVEL" LED lamp will light up.
4. When there is enough liquid in the disinfection unit, the  "FILL LEVEL" LED lamp will go off immediately and the  "DISINFECTION" LED lamp will light up.

 If the  "DISINFECTION" LED lamp does not light up, run cold water until the lamp lights up, and then turn off the water again.

5. The disinfection and cleaning cycle start automatically. The  "CONSTANT OPERATION" LED lamp is permanently lit as long as there is a 24 V power supply.

10 Repair

If the procedures in this section are disregarded, this might lead to premature wear of the parts and leakages in the unit!

Repairs may only be carried out by a customer service authorised by MoveoMed.

10.1 Leakage

In the event of leakage, proceed as follows:

1. Switch off the unit (switch the flip switch to position "0" and remove the plug from the socket; see also section 9.1).

 **WARNING!**

Risk of electric shock!



- Do not touch the unit, plug or drainpipe if you notice dampness or leaks in the installation environment. Inform the technical staff immediately.
- Do not pull the plug from the socket if your hands are wet.

Electric shock may cause severe or fatal injuries.

2. Collect the water that is running out in a receptacle.

3. Cordon off the wash area.
4. Contact customer service

+49 351 42 64 3000

(see also section 14 Service Contact).

10.2 Removing a Pipe Blockage

Chemical clearance of pipe blockages using pipe cleaner:

1. Switch off the unit (press the Off switch; see also section 9.1).
2. Allow the unit to cool down.
3. Follow the instructions provided on the pipe-cleaning product.
4. Switch the unit back on (see also section 9.3).

Mechanically removing the blockage:






It is possible to use a rubber plunger or a spiral pipe cleaner to clear the blockage through the plughole while the unit is running. Opening the drain pipe:




If the drain and thus also the disinfection unit have to be opened, please call customer service. Opening of the unit by persons not authorised by MoveoMed will result in the loss of the warranty coverage (see section 13).

10.3 Fault Analysis and Actions

First check that the plug is working correctly (the small indicator lamp of the front of the plug lights up green).

Fault	Cause	Solution
No LED indicator lamps light up.	The unit is not connected to the power supply or is switched off.	Check that the plug of the unit is inserted in the socket and that the flip switch on the unit is in position "1" (ON) (see also section 6.1). Do not operate the unit with an extension cord or distributor strip.

<p>The  "FILL LEVEL" LED lamp does not go off after water is added.</p>	<p>The level sensor in the unit is possibly calcified.</p>	<p>Decalcify the unit as described in section 8.2.</p>
<p>After water runs, the  "CONSTANT OPERATION" LED lamp is lit but the  "DISINFECTION" LED lamp is not lit.</p>	<p>The disinfection unit is malfunctioning.</p>	<p>Remove the plug from the socket and have the malfunction rectified by a MoveoMed customer service.</p>
<p>The  "CONSTANT OPERATION" LED lamp is not lit.</p>	<p>There is no power supply.</p>	<p>Insert the plug into the electrical socket. Check the mains fuse if the plug is in the mains socket but the  "CONSTANT OPERATION" LED lamp is not lit.</p>
	<p>The unit's internal fuse has triggered.</p>	<p>Have the problem solved by a MoveoMed customer service.</p>
	<p>The ground fault circuit breaker has tripped.</p>	<p>Remove the plug from the socket and have the problem solved by a MoveoMed customer service.</p>

<p>The  “CONSTANT OPERATION” LED lamp and the  “FILL LEVEL” LED lamp on the function unit are lit.</p>	<p>The trap liquid has reached the minimum level. The disinfection is finished until water is added again.</p>	<p>This is not a fault but part of regular operation. To verify this, run the water for a short time. The  “DISINFECTION” LED lamp lights up again after a delay of approximately 10 – 60 seconds.</p>
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11 Packaging and Transport

For returns to the manufacturer (for example for repair or exchange), MoveoMed GmbH will provide suitable packaging on request. For details see section 14 *Service Contact*. Ensure when packing the unit that it is especially protected against external impact. MoveoMed GmbH is not liable for transport damage.

Packaging materials should be disposed of in accordance with current legislation and local regulations.

12 Disposal

Faulty MoveoSiphon ST24 disinfection units are returned to the manufacturer for professional disposal.

13 Warranty

13.1 Warranty Period

The warranty period is 12 months from the date of the unit being handed over.

13.2 Warranty Terms

Warranty coverage exists in the event of material or production damage to the housing, control unit or electronic components which occurred during proper use.

Warranty coverage is ruled out in the event of damage which has occurred through improper use or tampering with the system by the customer or a third party (temperature calibration, vibration cleaner, control unit, fuses, etc.).

For safety reasons, it is not permitted to open units that have been sealed by the manufacturer or by personnel authorised by MoveoMed GmbH. Doing so will result in the loss of warranty coverage. Should the operator jeopardise the functions of the unit by ignoring these operating instructions, by improper use, or by external interference, then the MoveoMed warranty will be void. In such cases, liability transfers to the operator.

14 Service Contact

In the case of unit malfunctions or for any type of question you may have, please contact us using the contact details below:

Service hotline:

+49 351 42 64 3000
(MoveoMed Headquarters)

info@moveomed.de

MoveoMed GmbH wishes you much success with the continuous, fully automatic disinfection of odour traps using the “MoveoSiphon ST24” sonothermal disinfection unit.

Should you have any questions, please contact our service staff.

We promise to provide you with prompt and comprehensive support.

Regards

Your
MoveoMed Team

Notes



Contact:

**MoveoMed GmbH
Gartenstrasse 34a
D-01445 Radebeul, Germany**

Phone: +49 351 42 64 3000

E-Mail: info@moveomed.de

Web: moveomed.de | moveomed.com