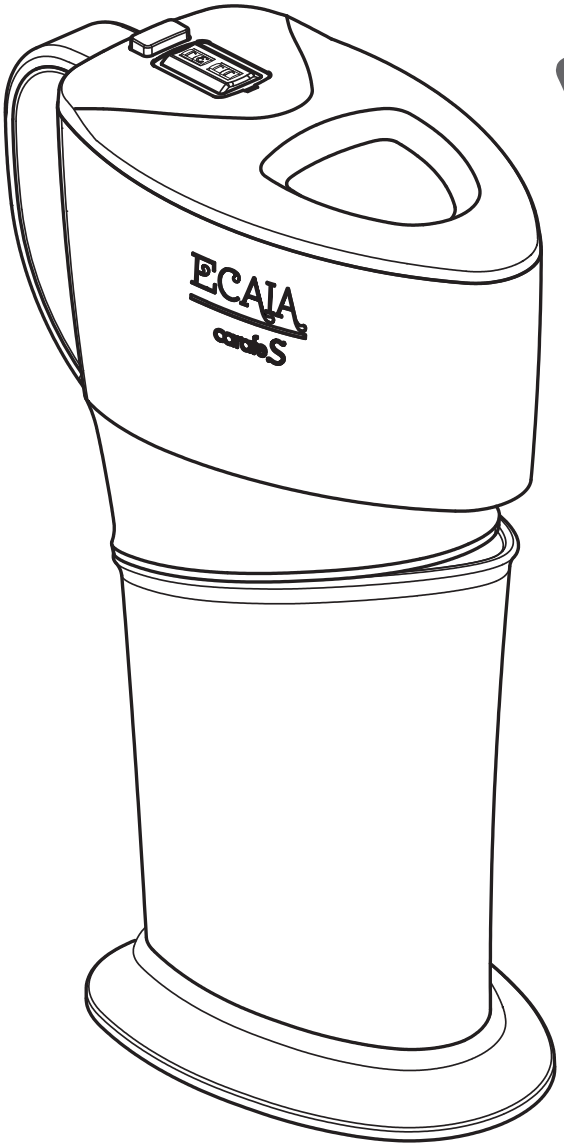
DE User Manual
Long version

User Manual

ECAIA carafe S



Mobile Water Treatment Device

International sales through:

SANUS**LIFE** INTERNATIONAL GmbH
Via Luigi Negrelli 13/C, 39100 Bolzano (I)

www.sanuslife.com – info@sanuslife.com

Version 22.05.19

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1 ECAIA carafe S

Mobile Water Treatment Device

This is the complete user manual (full version).

Read this user manual carefully.
Print it out. Keep it close to the device to have it at hand in case any questions arise.

The manufacturer and the sales company SANUS**LIFE** INTERNATIONAL GmbH will bear no liability for malfunctions or accidents caused by incorrect installation or improper handling and / or maintenance.

Before putting the **ECAIA carafe S** into operation, carefully read the complete user manual to make proper adjustments.

Please handle the glass carafe very carefully. Glass can be easily broken if used improperly.

Please note that the **ECAIA carafe S** is a device for treating cold drinking water. The performance of the device can vary depending on the quality of the drinking water.

If you have any further questions, please contact the Support Team of SANUS**LIFE** INTERNATIONAL .
You can find the contact details on the SANUS**LIFE** INTERNATIONAL website www.sanuslife.com.

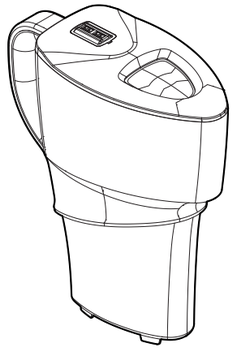
2 Delivery Contents of ECAIA carafe S

Available to order

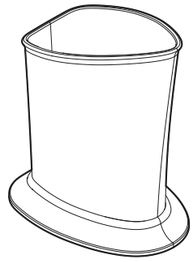
A **ECAIA glass jug S**
Glass carafe incl. "e-smog protected plate" from memon® (available to order)

Please check the parts listed below (B - F), which are included in the scope of delivery:

B **1 x ECAIA container S**
Additional container incl. lid with filter indicator

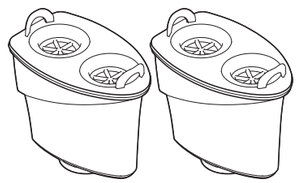


C **1 x ECAIA tank S**
Tank container for on the go



D **1 x filter hook**
To remove the filter

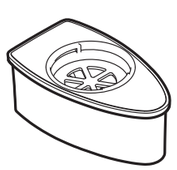
E **2 x ECAIA main filter S**
Main cartridge



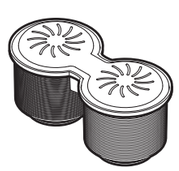
F **User Manual**
(Short version)

Optional filter cartridges available as accessories:

G **ECAIA booster filter S**
Additional ionization cartridge for stronger ionization.



H **ECAIA nitrate filter S**
Nitrate cartridge
(Product under development)



3 Clean before use

Wash the additional container with lid and the tank container by hand. Use warm tap water, possibly with the addition of a gentle cleaning product. Do not use rough cleaning utensils to avoid scratching the surface.
It is NOT recommended to put the parts in the dishwasher. This could negatively affect both the surfaces and the product quality in general.

Note: Please note that **ECAIA carafe S** is suitable for treating drinking water only.

4 Filter activation and filter installation

There are three (3) different filter cartridges for the ECAIA carafe S:

- **ECAIA main filter S** (main cartridge) (2-E)
- **ECAIA nitrate filter S** (nitrate cartridge) (2-F)
- **ECAIA booster filter S** (additional ionization cartridge) (2-G)

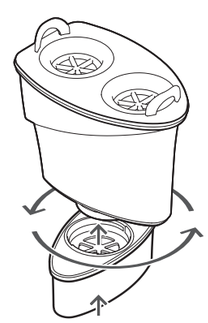
The **ECAIA main filter S** (2-E) is essential for the proper functioning of the **ECAIA carafe S**. The other two cartridges are optional and can be attached to the main cartridge as needed.

4.1 Step 1: Activation of the filter cartridges

To activate the individual cartridges, remove them from the packaging and immerse them completely in water for one (1) minute. Additional shaking flushes out any dust residues or particles of the filter medium. At the same time, the filter medium is completely soaked and activated.

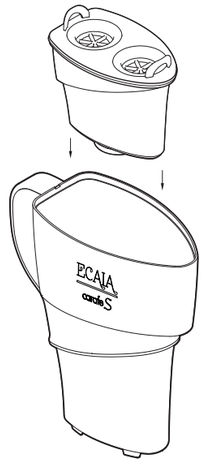
4.2 Step 2: Installation of additional cartridge ECAIA booster filter S (optional)

If necessary, use the additional cartridge **ECAIA booster filter S** (2-G) by mounting it on the bottom of the main cartridge **ECAIA main filter S** (2-E) by turning it clockwise. Make sure that the seals are inserted correctly.



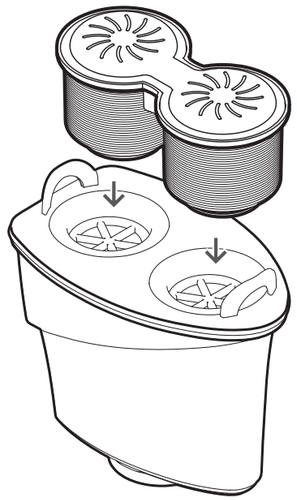
4.3 Step 3: Installation of main cartridge ECAIA main filter S

Insert the main cartridge **ECAIA main filter S** (2-E) from above in the **ECAIA container S** (2-B) and press it into the opening provided until it is firmly wedged into the container. Make sure that the seals are inserted correctly.



4.4 Step 4: Installation of additional cartridge ECAIA nitrate filter S (optional)

If necessary, use the additional cartridge **ECAIA nitrate filter S** (2-H) by pushing it into the provided opening on the top of the main cartridge **ECAIA main filter S** (2-E) until it is wedged firmly in place.



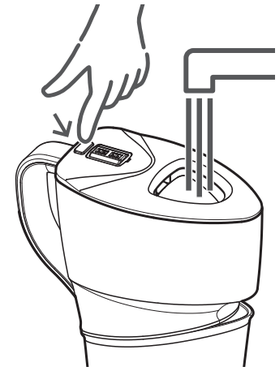
4.5 Step 5: Drain of the new filter

After inserting the filter cartridges, run a few tankfuls of water through again until the filtered water is clean and clear. Then let the filter cartridges regenerate for at least ten (10) minutes. Then the **ECAIA carafe S** can be used normally and the filtered ECAIA water can be drunk.

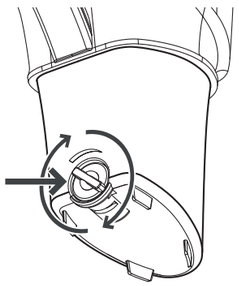
Note: Sometimes the filtered ECAIA water may still contain fine carbon particles. These emitted carbon particles are not harmful to health. If you accidentally drink some particles, they will be excreted by the body without any negative effects.

5 Use of the ECAIA carafe S

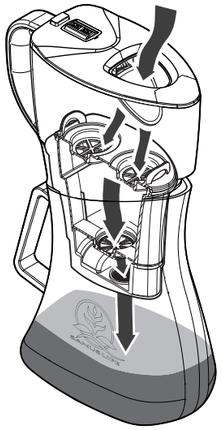
Always fill the **ECAIA carafe S** via the opening provided on the lid. To do this, hold the additional **ECAIA container S** (2-B) under the water tap and open the filler flap by pressing the button on the lid. Then run as much water as you want to drink into the attachment container.



Note: If you use the **ECAIA carafe S** in combination with the **ECAIA tank S** (2-C), a maximum of 0.45 liters of water may be filled into the additional **ECAIA container S** (2-B).



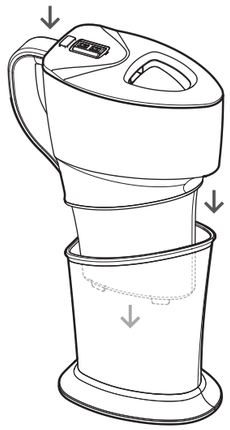
Then open the ceramic valve in the lower part of the attachment container so that the water can run through the filters.



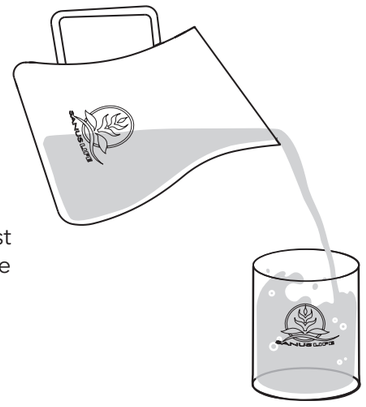
Then place the additional **ECAIA container S** (2-B) on the **ECAIA glass jug S** (2-A). As an alternative to the glass carafe, the tank container **ECAIA tank S** (2-C) can also be used. Note that the capacity of the tank is only 0.45 liters. Wait until all the water in the additional container has flowed through the filters into the glass carafe or tank container.

Note: In the lower part of the add-on **ECAIA container S** (2-B), the flow of water may cause a vacuum, which is why some water may remain in the container. This is not a problem. During the next filtering process, this water mixes with the freshly treated water. This small amount does not affect the quality of the water as a whole.

Then remove the additional **ECAIA container S** (2-B), close the ceramic valve and ideally place it in the tank container **ECAIA tank S** (2-C).



Afterwards, you can drink the filtered, ionized ECAIA water.



Tip: SANUS**LIFE** also offers stylish drinking glasses made of robust borosilicate glass. The „ECAIA glass“ is available in the online store SANUS**STORE** at www.sanusstore.com

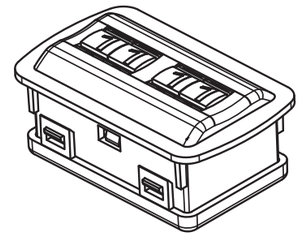
Note: To ensure optimal filter performance, it is recommended that the **ECAIA main filter S** (2-E) cartridge be completely submerged in water and shaken vigorously once a week, or as soon as the water flow decreases significantly. This prevents the activated carbon from clumping and optimizes the water flow.

6 Filter replacement

Change the individual cartridges by first removing the additional cartridge **ECAIA nitrate filter S** (2-H) (optional).
Remove the main cartridge **ECAIA main filter S** (2-E). Use the filter hook (2-D) included in the scope of delivery for this purpose.
Then you can also remove the additional cartridge **ECAIA booster filter S** (2-G) by turning it anticlockwise (optional).
To mount the filters, proceed as described under point “4 filter activation and filter installation”.

For information on the recommended filter change, see point “*8 Durability of the filter*”.

7 Setting the filter indicator



A mechanical filter indicator is integrated in the lid to indicate when the filter needs to be changed.
When inserting new filters, rotate the numbers of the filter indicator so that the current date (DD-MM) appears. Alternatively, the calculated expiry date of the filter can be set. Depending on the shelf life of the filter cartridges, you can see when they need to be changed.
It is recommended to always set the date of the filter indicator to the change interval of the **ECAIA main filter S** (2-E). It is also advisable to note the date for each cartridge separately in the calendar. This ensures that each cartridge is changed on time.

8 Shelf life of the filter

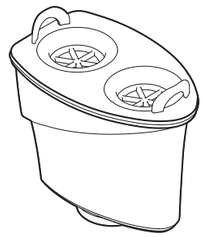
The shelf life of the filters depends on two (2) factors: Time and flow rate.

The filter medium is activated the moment it comes into contact with water for the first time. This is also the beginning of the filter's shelf life.
Even if a filter is not used continuously, it is recommended to dispose of it after the specified shelf life has expired for the following reasons:

- The filtration performance of the pollutants is no longer guaranteed.
- The risk of contamination of the filter by germs and bacteria increases.

Since there is no possibility to automatically record the flow rate, it is recommended to note down the respective flow rate. To be on the safe side, it is better to change the filter cartridges too early than leave it too late.

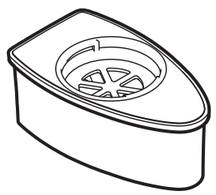
8.1 ECAIA main filter S (main cartridge)



Shelf life: 60 days or maximum after 300 liters flow. This corresponds to an average of five (5) liters of filtered and ionized water per day.

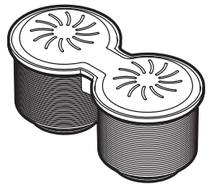
It is recommended to always set the date of the filter indicator to the change interval of the **ECAIA main filter S** (2-E). To be on the safe side, also note the date in a calendar.

8.2 ECAIA booster filter S (optional)



Shelf life: Depending on the mineral composition of the water used.
For hygienic reasons, it is recommended to always change this cartridge together with the main cartridge **ECAIA main filter S** (2-E).

8.3 ECAIA nitrate filter S (optional)



Shelf life: Depends on the amount of nitrate in the water used. Obtain this information from your water supplier or arrange for a water analysis.

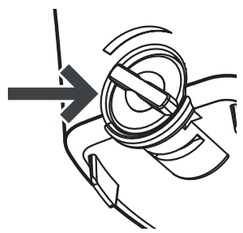
Exact information on the filter performance can only be provided as soon as the ECAIA nitrate filter S is available in the shop.

9 Setting Ionization output

The **ECAIA carafe S** has adjustment options so that optimum ionization performance can be achieved even for drinking water with different mineralization.

Ideally, the ECAIA water should have a pH value between 8.0 and 9.5.

If this value is not achieved with the main cartridge **ECAIA main filter S** (2-E), the ionization performance can be further increased by using the additional cartridge **ECAIA booster filter S** (2-G).



To regulate the ionization power even more precisely, you can also change the flow rate of the water. For this purpose, a ceramic valve is attached to the underside of the **ECAIA container S** (2-B) attachment container, which can be opened and closed. The more you close the ceramic valve, the slower the flow rate. Keep in mind: The slower the flow, the stronger the ionization.

Note: If the flow rate decreases for unforeseen reasons, shake the filter cartridges and, if necessary, do a backwash by removing the **ECAIA main filter S** (2-E) cartridge, holding the lower opening against the tap and using pressure to flush the water backwards through the cartridge.
If necessary, decalcification can also be carried out as described under point "*10. Regeneration of the ionization medium*" and „*10.2 Descaling ECAIA booster filter S*".

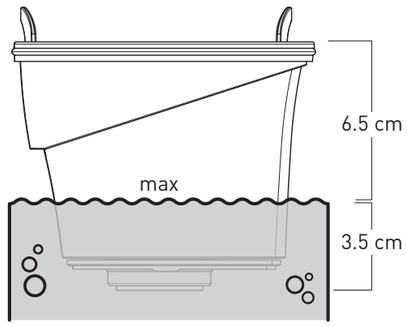
10 Regeneration of the ionization medium

If you filter more than one (1) liter of water, the ionization performance may decrease. Therefore, the filter medium should be allowed to regenerate for at least ten (10) minutes after each flow of a container filling of the attachment tank.

If the water contains lime, it is possible to decalcify the ionization medium to ensure better ionization performance in the long term.
This dissolves limescale deposits inside the cartridge and the ionization performance of the ceramics is increased again. The following is a description of how to carry out descaling.

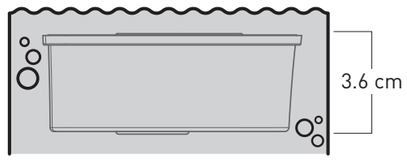
10.1 Descaling ECAIA main filter S

Place the lower part (maximum 4 cm) of the main cartridge **ECAIA main filter S** (2-E) for 15-30 minutes in water with citric acid dissolved in it (approx. 50 g citric acid to 0.3-0.5 liters of water). The cartridge must still protrude at least 6.5 cm from the water!
Then rinse the cartridge thoroughly with clean water from above.



10.2 Descaling ECAIA booster filter S

Immerse the additional cartridge **ECAIA booster filter S** (2-G) completely in water with dissolved citric acid for 15-30 minutes (approx. 50g citric acid per 0.3-0.5 liters of water).
Then rinse the cartridge thoroughly with clean water from above.



11 Maintenance and Care

In order to enjoy your **ECAIA carafe S** for a long time and to prevent germs and contamination, it is important to take proper care of the carafe and the filters. Please note the following information:

- To clean all parts of the **ECAIA carafe S** and the **ECAIA glass jug S**, use normal tap water and, if necessary, a gentle washing-up liquid.
- Do not use rough cleaning aids (e.g. friction brush) to avoid scratching the surface.
- The best way to remove limescale deposits from the **ECAIA glass jug S** (2-A), the additional container **ECAIA container S** (2-B) and the **ECAIA tank S** (2-C) is to use citric acid dissolved in water.
- Avoid contact with contaminated objects, with wipes, cleaning sponges, wet or dry cloths.
- Spray all parts of the **ECAIA carafe S** regularly with a food-safe hygiene spray to prevent bacterial contamination. SANUS**LIFE** INTERNATIONAL recommends the use of **ECAIA+ allhygienics** for this purpose[1].
- Always fill the additional **ECAIA container S** (2-B) attachment container via the opening provided in the lid. If the lid remains closed, this also protects the interior of the carafe from contamination.
- When the carafe is not in use, close the ceramic valve on the bottom of the additional **ECAIA container S** (2-B). This can also protect against contamination.
- To prevent bacterial growth, it is recommended not to expose the product to heat or direct sunlight. On warm days, it is recommended to store the additional **ECAIA container S** (2-B) top container in the refrigerator.
- There can always be some residual water in the additional **ECAIA container S** (2-B) attachment container. Therefore, regularly remove the main cartridge **ECAIA main filter S** (2-E) and clean the inside of the top container **ECAIA container S** (2-B).
- Change the filter cartridges regularly.
- If the flow rate decreases for unforeseen reasons, shake the filter cartridges and, if necessary, do a backwash by removing the **ECAIA main filter S** (2-E) cartridge, holding the lower opening against the tap and using pressure to flush the water backwards through the cartridge. If necessary, decalcification can also be carried out as described under point "*10 Regeneration of the ionization medium*".
- To ensure optimal filter performance, it is recommended that the **ECAIA main filter S** (2-E) cartridge be completely submerged in water and shaken vigorously once a week, or as soon as the water flow decreases significantly. This prevents the activated carbon from clumping and optimizes the water flow.

Please note that the **ECAIA carafe S** is intended for treating drinking water only.

[1] Available in the online shop SANUS**STORE** at www.sanusstore.com

12 Tips for use

- The increased pH value, the hydrogen content and the ORP value do not remain permanently in the ECAIA water. For this reason, it is advisable to only prepare as much water as you intend to drink at any given time. As a rule, the fresher the ECAIA water, the stronger its properties.

- Storing ECAIA water in the refrigerator can cause the positive properties to be lost quickly. If you still don't want to give up the pleasure of cold water, fill the unfiltered water into a bottle and put it in the fridge. At the desired time, take the bottle out of the refrigerator and let the cold water flow through the **ECAIA carafe S**.

- Due to ionization, minerals contained in the water become negatively charged, which is why they stick to the positively charged vessels such as carafes and glasses in the form of white deposits. These deposits can be removed easily and quickly with a little vinegar or water with citric acid dissolved in it.

- When travelling or on the road, you can prevent the leakage of residual water in the **ECAIA carafe S** as follows:

  - Close the ceramic valve on the bottom of the **ECAIA container S** (2-B).

  - Remove the lid, put a transparent film over it and then put the lid back on the **ECAIA container S** (2-B).

- When on the go, you can also use the **ECAIA tank S** (2-C) to collect the filtered water. This means that it is not absolutely necessary to take the **ECAIA glass jug S** (2-A) everywhere. Alternatively, the top container **ECAIA container S** (2-B) can also be placed on other vessels without any problems.

  Disadvantage: Since the “e-smog protected plate” from memon® is implemented at the bottom of the **ECAIA glass jug S** (2-A), its properties are not transferred to the filtered water when the filter is used without a glass jug.

- When you insert a new filter cartridge, it is recommended that you also note the date on which you changed the filter in the calendar. Do not rely only on the filter indicator. This could also be adjusted by mistake or carelessness.

- The ionization performance depends on various factors, first and foremost on the mineral composition of the water. It cannot be guaranteed that all drinking water can be optimally ionized. Deviations between the individual filters are completely normal due to the nature of the ceramics used and are no reason for free replacement.

- In the lower part of the add-on **ECAIA container S** (2-B), the flow of water may cause a vacuum, which is why some water may remain in the container. This is not a problem. During the next filtering process, this water mixes with the freshly treated water. This small amount does not affect the quality of the water as a whole.

- If the carafe is used irregularly or not for more than eight (8) hours, it is recommended to throw away the first 0.1 litres of filtered water.

- If the carafe is not used for several days, it is recommended to remove the cartridge of the **ECAIA S main filter** (2-E) so that both the cartridge and the top container can dry out.

13 Questions and answers

When should you measure the pH value of the ECAIA water?

We recommend measuring the pH value not only at the beginning, i.e. after the first use, but at regular intervals during the entire time the filter is in use. In the beginning, the filtered water is usually more alkaline. Since the ionization performance always depends on the mineral composition of the water used, the alkaline value can decrease quickly or slowly. We therefore recommend that you constantly check the pH value. To set the ionization power, read the description under point “*9 - Setting the ionization power*”. Ideally, the water should have a pH value between 8.0 and 9.5.

Does the ECAIA carafe S also work in areas with hard, calcareous water?

Yes, the **ECAIA carafe S** also works with water containing lime. The filtering capacity of the pollutants is always guaranteed and the water gets more aroma and more taste. To increase the ionization performance even with water containing lime, read the description under point “*9 - Setting the ionization performance*”.

What is the ORP value or the redox potential?

The ORP value (redox potential) expresses the ability to acquire or lose electrons. This value is expressed in mV (millivolts): If the water is negatively charged, it means that it is rich in electrons and has antioxidant properties (= Anti-rust); If, on the other hand, the water is positively charged, then it is electrons deficient and therefore has oxidative (= Rust) properties. While the tap water has an oxidative property (approx. +250mV), the ECAIA water has antioxidant properties (from approx. -50mV to -300mV). A high lime content can influence the redox potential. Moreover, a low ORP value is of long or short duration. Over time, the ORP value returns to the positive range and the water becomes oxidative again. For this reason, it is advisable to only prepare as much water as you intend to drink at any given time.

Can bacteria accumulate in the ECAIA carafe S and therefore pollute the water?

Usually, drinking water always contains some chlorine, which prevents the growth of bacteria. Nevertheless, we recommend placing the **ECAIA tank S** (2-C) filter container in the refrigerator during the hot months if it is not used regularly.
It is also important to handle the **ECAIA carafe S** in a clean manner, because bacteria can develop very quickly in combination with organic substances such as food, dirty flannels or other “bacteria carriers” - especially in a warm environment. In general, absolute hygiene is always required when handling the **ECAIA carafe S**, i.e. wash your hands well before touching the container (at least 30 seconds, with soap) and dry them only with fresh, clean kitchen paper. Never clean hands with a sponge or wipe. They are usually contaminated with bacteria and can quickly and easily spread to the carafe. To further prevent contamination with bacteria, spray the **ECAIA carafe S** regularly with a food-safe hygiene spray. SANUS**LIFE** INTERNATIONAL recommends the use of **ECAIA+ allhygienics** for this purpose[1].

[1] Available in the online shop SANUS**STORE** at www.sanusstore.com

What is the difference between the ECAIA carafe S and a conventional filter carafe from the supermarket?

While many conventional carafes from the shelf only filter out lime and – usually only in small amounts – pollutants from the water, the **ECAIA carafe S** is able to reduce various pollutants in the water, to ionize it, and to make it alkaline and antioxidant. Or in other words: Conventional carafes from the trade are primarily (lime) water filters, the **ECAIA carafe S**, on the other hand, is a mineral water ionizer with several functions: The filter cartridges reduce a wide range of regulated and non-regulated pollutants. In addition, the water is enriched with free electrons and hydrogen by means of mineral ionization, which measurably increases the pH value. All these values are detectable by measurement. Since lime (mainly consisting of alkaline minerals such as calcium, magnesium or potassium) is one of the natural alkaline minerals and a main component of the body, it is not filtered out with the **ECAIA carafe S** for good reason. In addition, the "e-smog protected plate" from memon® protects the ECAIA water from the effects of harmful environmental pollution, such as electrosmog and earth radiation, which surround us every day.

Does the ECAIA carafe S also filter lime?

No. The **ECAIA carafe S** reduces many pollutants such as chlorine, heavy metals, microparticles, VOCs, herbicides, pesticides, fungicides, hormones and drug residues. Important minerals such as calcium, magnesium, sodium, etc. are usually retained in the water. They are ionized by a special medium and thus optimally prepared so that the body can absorb and metabolize them even better. Some conventional filter cartridges, on the other hand, contain an ion exchanger to extract calcium ions. In return, however, sodium ions are released into the water.

White residue or deposits form on glasses and carafes. How can that be?

The water treated with the **ECAIA carafe S** is ionized. Consequently, the minerals contained in the water are negatively charged. But since containers made of metal, plastic or glass are positively charged, the negatively charged minerals are increasingly attracted and stick to glasses and decanters. This creates these white residues or deposits. However, since these are purely natural deposits, they can also be easily removed. Simply add a little citric acid or vinegar to the water, leave it on for a few minutes and then rinse with clean water. Consequently, every container looks like new again!

What happens if you drink too much ECAIA water? Does this have negative effects on health?

No, ECAIA water is like any other water. The only difference is that it is purified, alkaline, antioxidant and rich in free hydrogen. People who have health problems should not drink too strongly ionized ECAIA water in the beginning to prevent detoxification symptoms.

Sometimes fine grey or black particles come out of the cartridge, especially when the cartridge is new. What are they and are they hazardous to health?

These are organic activated carbon particles that are part of the filter medium. Fine particles can easily be created by vibration and friction during filling or during transport. Activated carbon particles are absolutely harmless – on the contrary: As already mentioned, it is a 100% natural material which is also used in some nutritional supplements due to its purifying properties. For example, for bowel cleansing.

What effect does water have in the body and how much do I need to drink for it to take effect?

Water contributes to the maintenance of normal physical and cognitive functions. Water helps maintain normal regulation of body temperature. In order to achieve the stated effect, at least 2l of water (depending on body weight) must be consumed daily.

ECAIA water has a peculiar fishy taste. What can it be?

A fishy taste of the water indicates too much ionization. You can reduce the ionization power of the **ECAIA carafe S** by fully opening the ceramic valve. This means that the water flows through more quickly. If you are using the **ECAIA booster S** (2-G), remove it. It can also be helpful to filter larger quantities of water one after the other without letting the filter cartridges regenerate (this weakens the ionization).

How do I get a higher pH value or a better ionization performance?

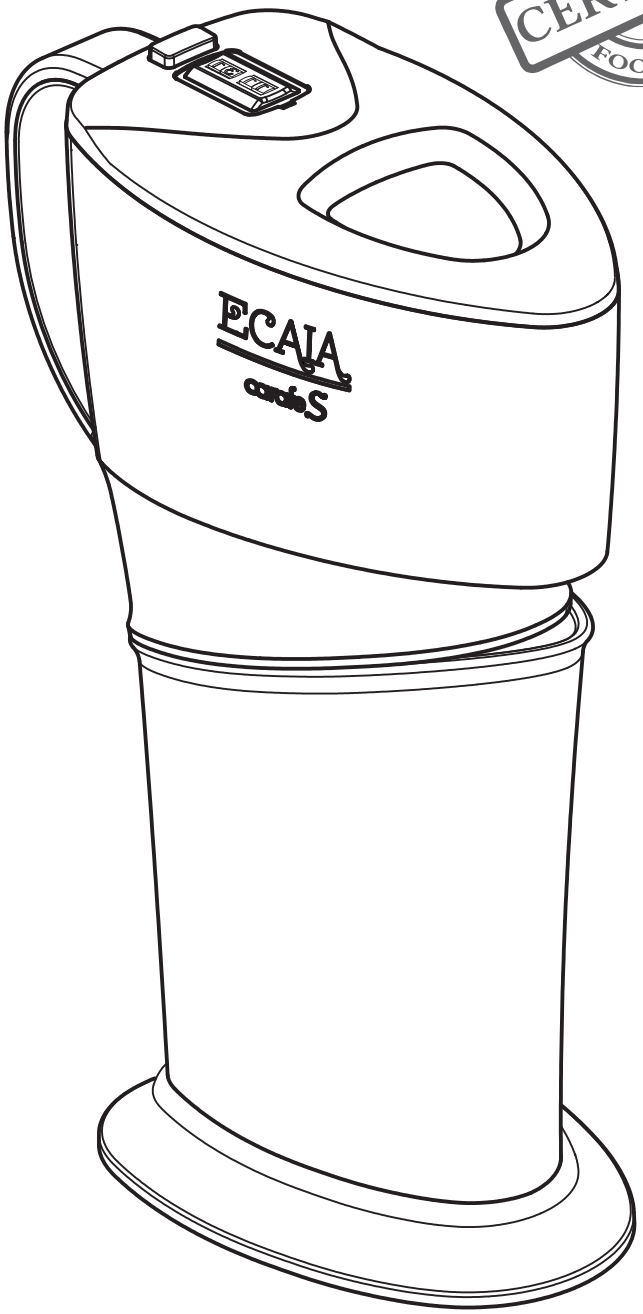
For this, read the point "*9. Setting the ionization power*" in the instructions for use of the **ECAIA carafe S**.

Why does some water remain in the attachment container?

In the lower part of the **ECAIA container S** (2-B) attachment container, the flow of water may cause a vacuum, which is why some water may remain in the container. This is not a bad thing. During the next filtering process, this water mixes with the newly treated water. This small amount does not affect the quality of the water as a whole.
If the carafe is not used regularly (less than once per day), it is recommended to remove the main cartridge **ECAIA main filter S** (2-E) so that both the cartridge and the top container can dry.

Exclusion of liability:
Unfortunately, SANUS**LIFE** INTERNATIONAL cannot accept any liability in the event of improper handling or failure to observe the instructions for use.

Disposal information:
Please dispose of all parts of the **ECAIA carafe S** in accordance with the applicable regulations of your municipality.



Mobile Water Treatment Device

International sales through:

SANUS**LIFE** INTERNATIONAL GmbH
Via Luigi Negrelli 13/C, 39100 Bolzano (I)

www.sanuslife.com – info@sanuslife.com