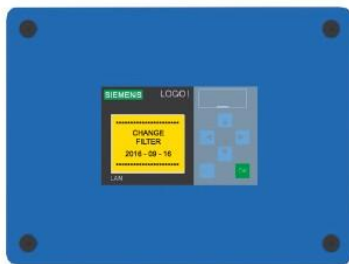


5. Maintenance instructions for EASYRO

EASYRO® 150/300/600

The display of your EASYRO® shows „CHANGE FILTER“.

The maintenance interval of 4500 operating hours has therefore expired. The system must be serviced at this time.



Display of
EASYRO® 60/120/240/480



Display of
EASYRO® 150/300/600

Please read this maintenance instruction carefully and follow the steps outlined here.

Regularly servicing your EASYRO® system ensures a long working life of the membranes.

Please prepare all parts and components before starting the maintenance process. This includes the required clean water for the cleaning solution. The amount is listed in the mixing table and on the back of the canister of your basic maintenance kit.

You need following for the maintenance:

- 1 wound thread filter, 1 μ , 10'' or 20'' depending on your system type (included in your maintenance kit)
- Cleaning concentrate for flushing the membranes (included in the maintenance kit)
- 1 canister (included in your basic maintenance kit)
- 2 tubes \varnothing 10 mm (included in your basic maintenance kit)
- 1 straight connector tube (included in your basic maintenance kit)
- 1 plug (included in your basic maintenance kit)
- Clean water depending on system type (water amount according to table)
- 1 Y-connector (included in the EASYRO® 600 basic equipment)
- 10 l bucket or similar container
- Disposable gloves (included in maintenance kit)
- Breathing mask (included in maintenance kit)

Only if required (not included in maintenance kits)

- 1 activated carbon filter 10'' or 20'' depending on requirement
- 1 softener cartridge 10'' or 20'' depending on requirement



Model	Amonut of Concentrate	Amount of Water
EASYRO® 60/120/150	250 ml cleaning concentrate	4.750 ml water
EASYRO® 240/300	500 ml cleaning concentrate	9.500 ml water
EASYRO® 480/600	2 x 500 cleaning concentrate	2 x 9.500 ml water

No maintenance available:

If you do not have a maintenance kit available, it is possible to delay the maintenance interval for further 50 hours of production.

Note

This bridging should only be used in case of emergency! After these 50 hours of production have elapsed, the EASYRO® system stops and cannot be restarted until serviced. Please obtain your maintenance kit in time.

Bridging the maintenance for 50 hours of production:

Press the OK button to acknowledge the displayed “CHANGE FILTER.” The EASYRO® system now continues in production mode for another 50 hours.

Note

After expiration of these 50 hours, the display shows “ALARM STOP FILTER” (EMERGENCY STOP FILTER) and only starts after carrying out the following steps:



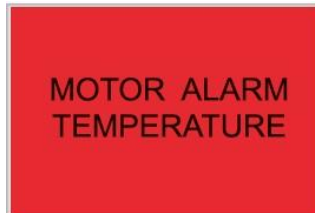
Please press ESC + ▼ (down arrow) to reset the filter. Prepare the maintenance kit and start the maintenance as described.

Note

If the following is displayed, maintenance cannot be carried until the error is fixed:

“Alarm Stop Filter”

“Motor-Temp Alarm”



General filter reset for all systems

When „ALARM STOP FILTER“ is displayed, press ESC and hold until the cursor flashes. Now press OK.

The following is displayed: 000000

Now use the arrow keys to set the number code.

Please set 000505 and press OK again.

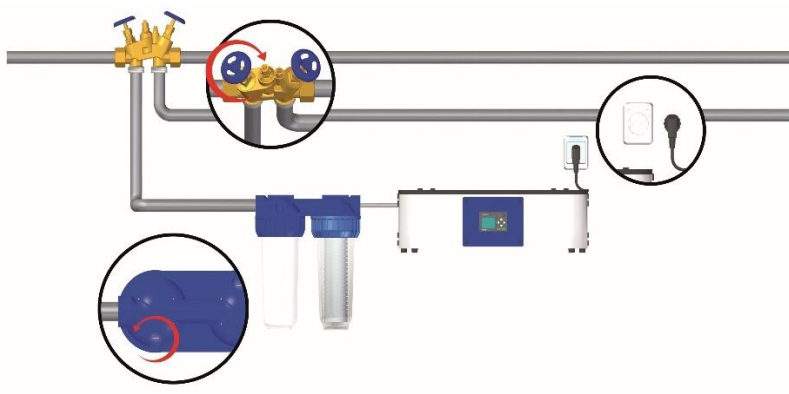
The display now depicts „FILTER RESET“.



When „FILTER CHANGE“ is displayed, press ESC + ▼ (down arrow) to reset the filter.

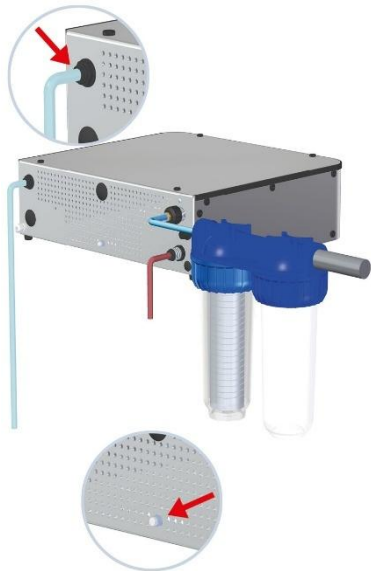
Preparing the system for maintenance

EASYRO® 60/120/240/480



Turn the main water supply valve off and remove the EASYRO® system from the power supply by pulling the mains plug.

To relieve the system pressure, open the screw on the filter housing with a screwdriver until the pressure can escape.



Disconnect the clean water outlet hose from the system. This is done by pressing on the holding element to unlatch it and then pulling the tube from the connector.

Then insert the tube (included in the basic maintenance kit) into this outlet and place the end of the tube in a bucket.

Please use a suitable collecting container (bucket) according to the following amounts.

System type	Max. output volume
EASYRO® 150	approx. 5 litres
EASYRO® 300	approx. 10 litres
EASYRO® 600	approx. 20 litres

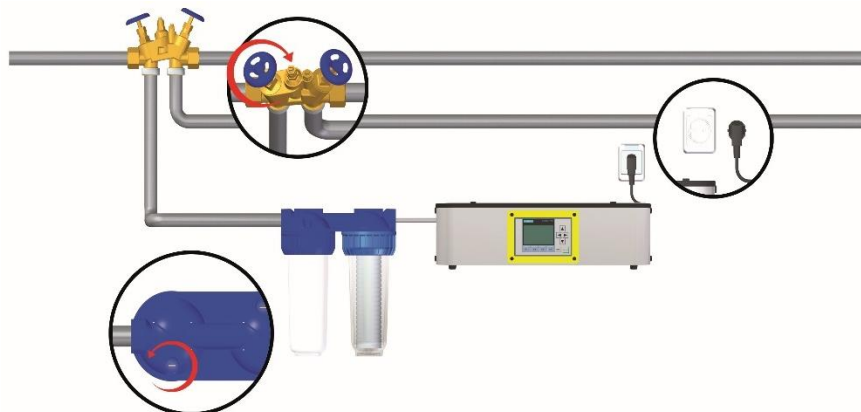
The clean water outlet remains disconnected from the tank during the entire maintenance process to avoid any residues in the drinking water tank.

Make sure the mixture adjustment screw of the system is closed (turn clockwise to the stop).

Should your system feature a setting here, remember the number of turns or mark the position so that you can reset the screw at the end of the maintenance process.

Preparing the system for maintenance

EASYRO® 150/300/600



Close the main water shut-off valve and disconnect the power plug of the EASYRO® from the mains power supply.

To release pressure, you must turn the screw of the filter housing with a screwdriver until the pressure can escape.



The EASYRO® has one pure water outlet with a reject stream and one pure water outlet without a reject stream (top).

Disconnect both pure water outlet hoses from the tank. To do this, push back the retaining element and pull the hose out of the connector.

If you are using a membrane boiler, your water treatment system is pressurised.

During the entire flushing process, direct both pure water outlets into the drain to avoid any flushing residues entering the pure water tank.

System type	Max. output volume
EASYRO® 150	approx. 5 litres
EASYRO® 300	approx. 10 litres
EASYRO® 600	approx. 20 litres

Note

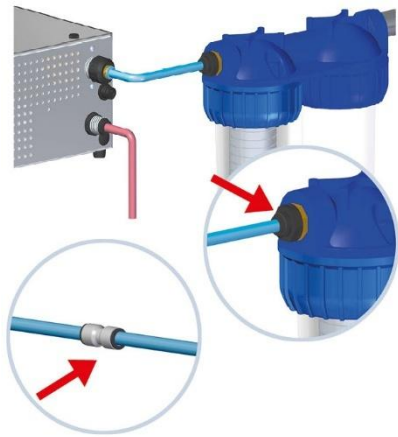
An EASYRO® 150/300/600 has an integrated reject stream. The system only produces ultrapure water for the tank at the lower pure water outlet once again when the flushing cycle is completely finished and all residues of the cleaning solution have been flushed out.

Preparing the cleaning solution for all EASYRO Systems

To prepare the cleaning solution, please open the canister from the basic maintenance kit.

Please use the included disposable gloves and breathing mask for your safety when opening the concentrate. Dilute the cleaning concentrate with fresh water according to the mixing table.

Then screw the cap back on the canister with the cleaning solution and shake it until water and concentrate are mixed thoroughly. Insert the suction tube (included in basic maintenance set) into the connector on the cap of the canister.



Now disconnect the tube (6) from the outlet of the pre-filter housing. Take the straight connector (basic maintenance kit) and connect this tube with the suction tube on the canister by pushing the two tube ends into the connector.

Please make sure that all connections are fastened firmly and do not leak.

Note

Both systems, the EASYRO® 480 and the 600, are equipped with 2 water inlets that are connected with one another. Please remove these two tubes directly from the system and use the Y-connector included in your basic maintenance kit to connect both tubes.

included in your basic maintenance kit to connect both tubes.

View of tubing connections for maintenance



EASYRO® 60/120/240/480



EASYRO® 150/300/600

Suctioning the cleaning solution

Now reinsert the power plug into the power socket. Depending on system type, the display now depicts "FILTER CHANGE",

"FILTER RESET" or no message.

EASYRO® 60/120/240/480

Press ESC + ◀ arrow left and hold down both buttons until „SUCTION MEMBRANE CLEANING“ appears.

EASYRO® 150/300/600

Press F4 and hold down button until "SUCTION MEMBRANE CLEANING" appears.



Note

A „60 seconds“ timer is displayed with older models. Now press OK.

The EASYRO® system now suctions in the cleaning solution for 60 seconds. As soon as the entire solution is suctioned into the system and before the system can draw in air (= canister almost empty), unplug the mains plug from the socket.

With the EASYRO® 240/300 and 480/600, the suction process should be repeated 2 to 3 times until the entire cleaning solution has been suctioned into the system.

!!! The cleaning solution should now remain in the system for about 30 minutes. !!!

Changing the filter in the pre-filter housing

While the cleaning solution is working in the membranes, please change the pre-filters in the double filter housing. Do so by unscrewing the union nut of the pre-filter housing with the included filter key and take out the gasket rings.



!!!ATTENTION!!!

Both pre-filter housings are filled with water. Please use a bucket or a similar container to remove the water.

If you have a sediment filter in chamber 1 and an activated carbon filter in chamber 2, please replace both.

If you have a softener cartridge (transparent granulate) in chamber 2, please replace only the filter insert in chamber 1. The granulate of the softener cartridge dissolves over time. It does not need replacing until the granulate material is almost completely dissolved.

Please clean the union nut, sight glasses and gaskets of the pre-filter housings with lukewarm water before reinserting the filter inserts.

Replace the gasket rings and screw down the union nut with the filter key. Make sure the filter housings are tight and do not leak.

!!!ATTENTION!!!

New wound thread filters must be flushed out! Flush the pre-filter housing with the new wound thread filters into the drain for 3 minutes. The flushing water from the filters must not enter the EASYRO® system, as it will damage the membrane!!!

Dispose of the used filter insert (wound thread filter) from chamber 1 (or 1 and 2) in the household waste.

Flushing out the cleaning solution

After the residence time of the cleaning solution, please disconnect tubes from the plug connection. This is done by pressing on the holding element and then pulling out one tube after the other.

Now reinsert the water supply tube of the system into the connector of the pre-filter housing. If you use the EASYRO® 480 or 600 system, please reinsert both fresh water supply tubes into the corresponding connections of the system.

Open the main water supply line again. Make sure all lines and connections are correctly positioned and do not leak.

The pressure tank must be closed and an unpressurised tank must not be full during the flushing process, as the level sensor would prevent production.

Then plug the mains plug of the system back into the socket and confirm with OK. The system now starts the flushing process and flushes the cleaning solution off the membranes into the drain.

System type	Flushing time
EASYRO® 60/120	mind. of 3 minutes
EASYRO® 240/300	mind. of 5 minutes
EASYRO® 480/600	mind. of 10 minutes

Returning to normal operation

EASYRO® 60/120/240/480

Disconnect the pure water outlet again and reconnect the hose leading to the tank. If necessary, set the adjustment wheel on the blending valve back to its starting point.

EASYRO® 150/300/600

Reconnect both pure water outlet hoses to the tank.

!!! Unscrew the union nuts with the filter spanner supplied with the system and remove the sealing rings to clean them!!!

Completing maintenance

Reinsert the power plug into the power socket.

Now the maintenance of the EASYRO® system is complete and standard operation continuous.

Operating hours counter after maintenance

After maintenance, the system automatically resets the operating hours counter to 4500 hours and goes into production (unless the tank is full).

Dispose of all residues of the cleaning solution in the drain and flush out the canister and the two maintenance hoses so that they can be used again for the next round of maintenance work.

You now have another 4,500 operating hours (= 6 months of continuous use) until the next maintenance work is required.