



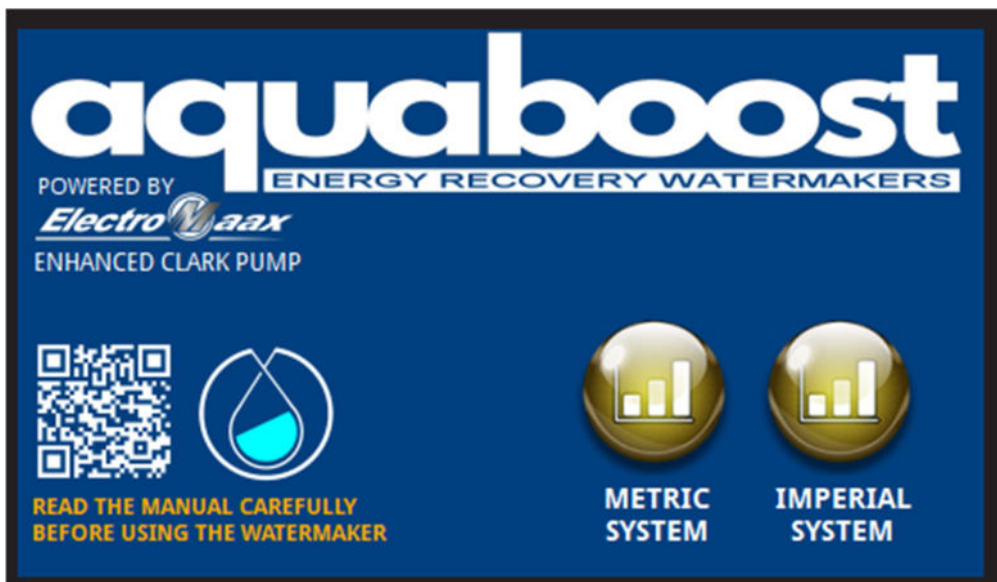
OPERATE THE WATERMAKER  
WITH THE 4.3"  
TOUCH SCREEN DISPLAY

**SOFTWARE RELEASE 2.0**  
**FEBRUARY 2025**

The 4.3" Touch Screen Panel is an advanced device delivered as default in all the Blue Gold Watermakers. With this panel you can visualize all the parameters of the machine and drive all the pumps and valves.

**From February 2025 the new software is available also for our ENERGY RECOVERY WATERMAKERS "AQUABOOST" with the 3rd generation enhanced Clark pump by Electromaax**

**The simplest way to run your water maker!**



# JUST WATER MODELS

“Welcome” screen

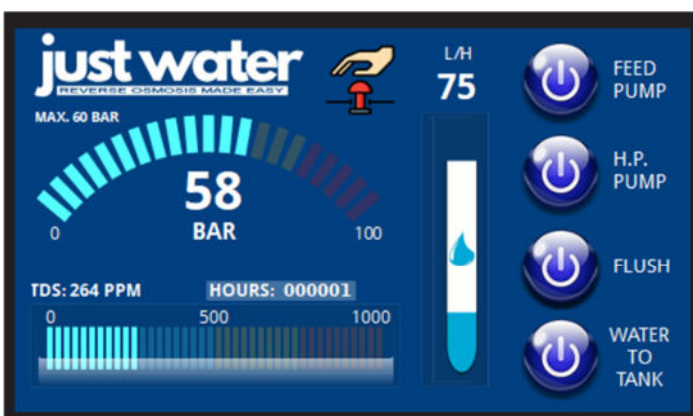


After switching the water maker on, the welcome screen is loaded on your display.

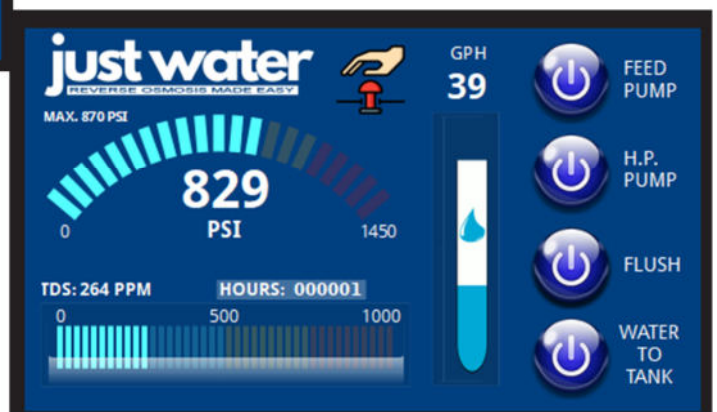
You have now the possibility to choose between the metric system and the imperial system: This means that you can read the parameters in liters/hour + bar (metric system) or alternatively in GPH + PSI (imperial system).

A QR code let you open the online documentation page of our website on your smartphone.

After clicking the preferred system, the main screen will be loaded

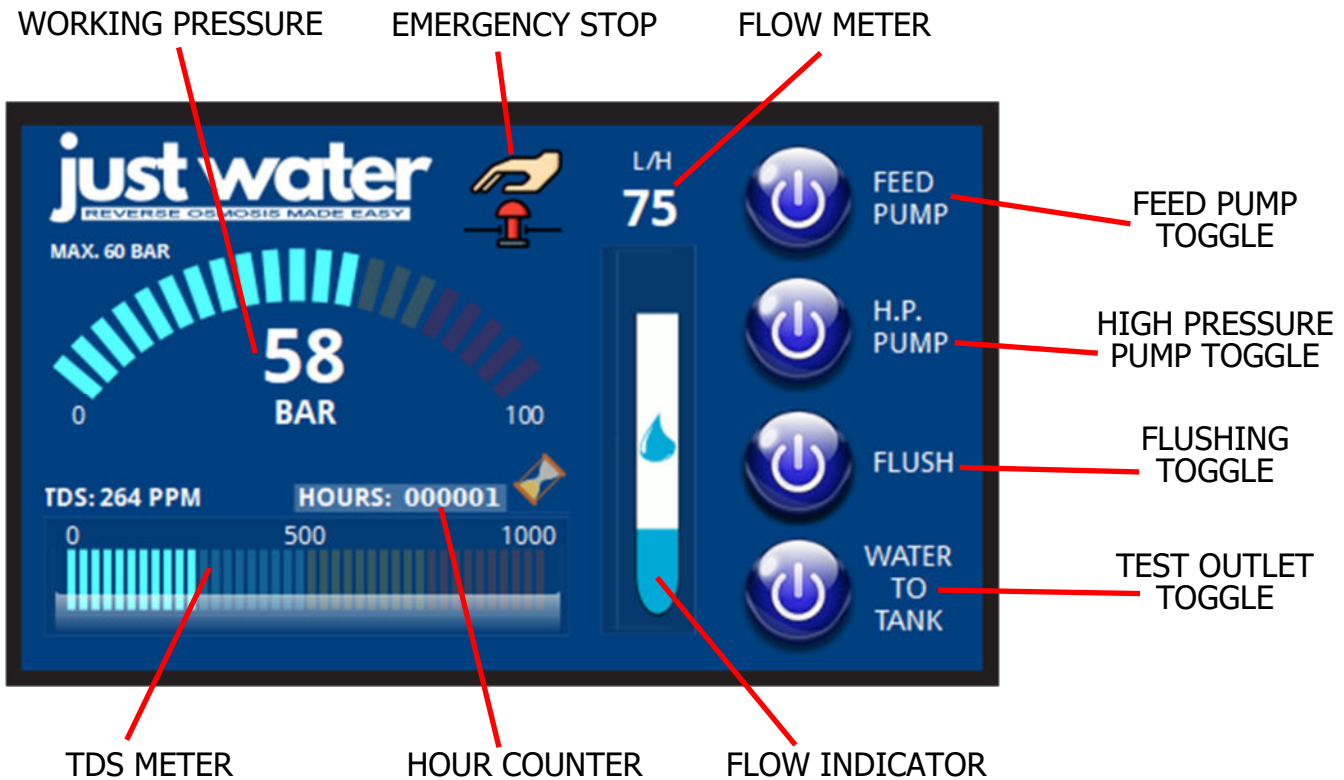


Metric System



Imperial System

## "Main" screen



Within this screen you can control and drive your water maker:

### Gauges:

- Analog and digital manometer, visualizing the operating pressure.
- Digital flow meter, visualizing the quantity of produced fresh water.
- Animated Freshwater Flow Indicator
- Analog and digital TDS meter, visualizing the quality of produced fresh water.
- Hour counter with animated sand clock.

### Toggles

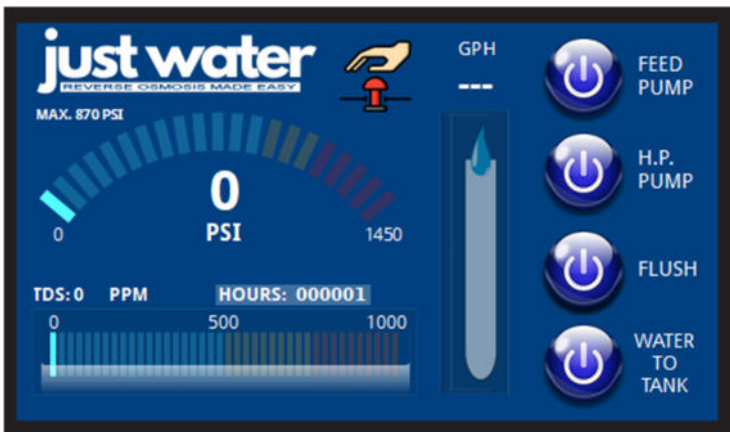
- Feed pump toggle.
- High pressure pump toggle.
- Flushing toggle.
- Tank-Test outlet toggle.
- Emergency stop button.

The toggles are in

- Blue color when active and switched off
- Green color when active and switched on
- Gray color when inactive

The flushing toggle can be activated only if the feed pump and the high pressure pump are switched off. When the water maker is running, the flushing toggle is inactive.

The Tank-Test outlet toggle is in blue color when the water flows to the tank and in yellow color when it is activated and the water is flowing to a test outlet (discard).



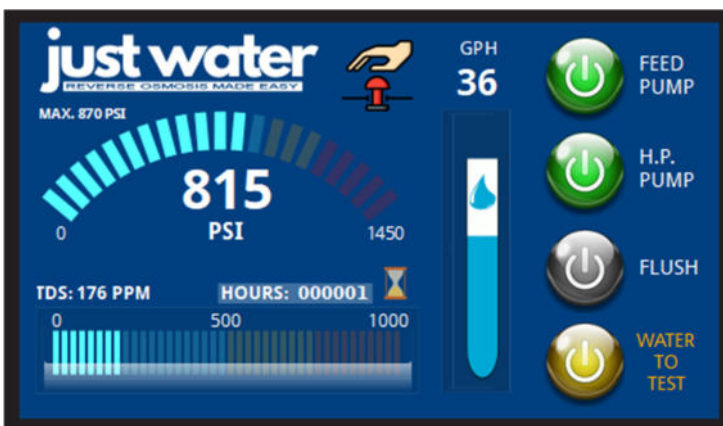
The watermaker is stopped:

- all the toggles are blue and the gauges show "0"
- The sand clock is hidden and the hour counter is stopped.
- The flow indicator is not running and the flow meter as well.



The watermaker is running and the water is flowing to the tank:

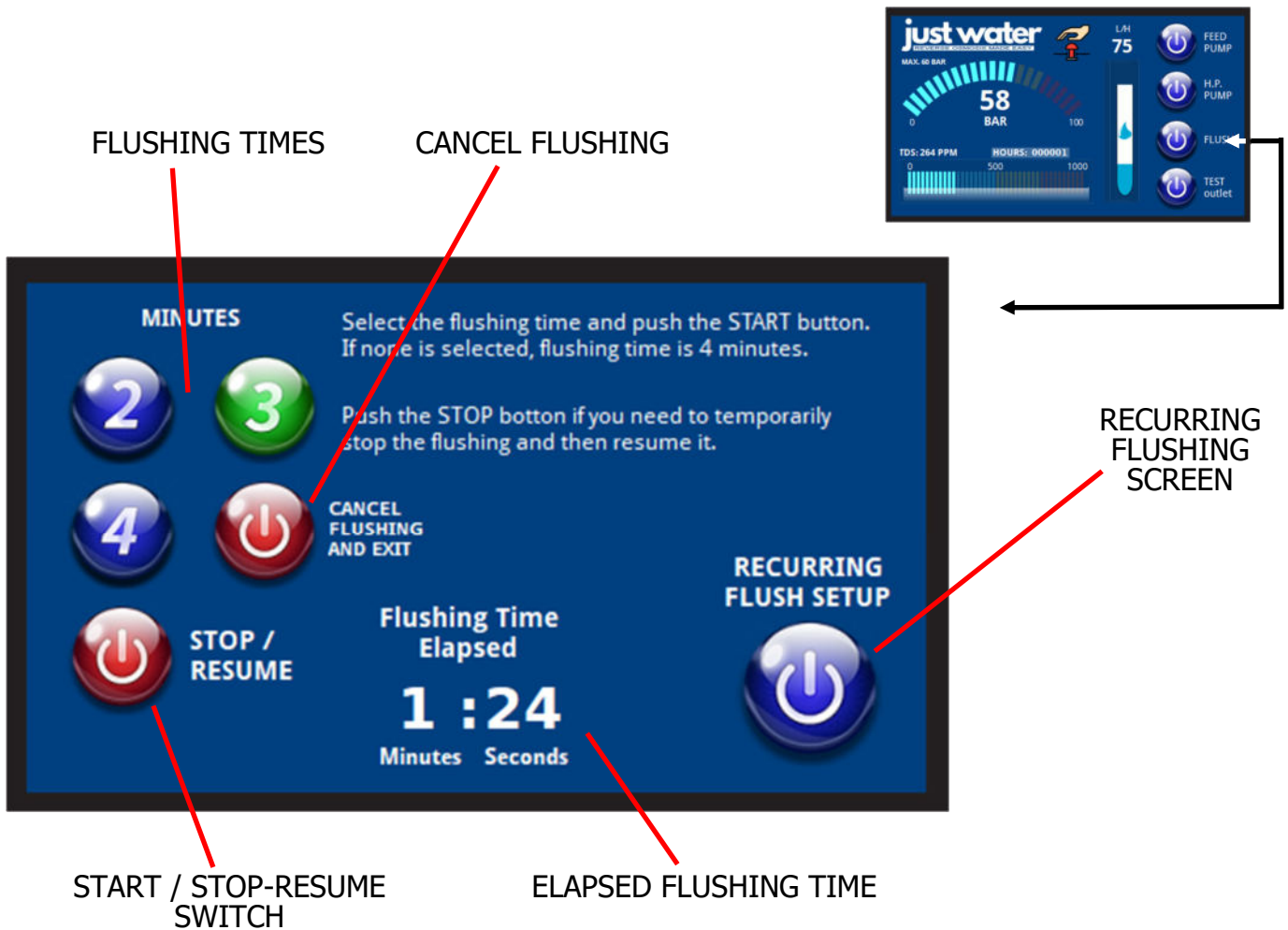
- The toggles of the pumps are green.
- The toggle of the flushing is grey (deactivated).
- The toggle of the Test outlet is blue.
- The sand clock icon is rotating and the hour counter is running.
- The flow meter and the flow indicator are both running.



The watermaker is running and the water is flowing to the test outlet (discard):

- The toggles of the pumps are green.
- The toggle of the flushing is grey (deactivated).
- The toggle of the Test outlet is yellow.
- The sand clock icon is rotating and the hour counter is running.
- The flow meter and the flow indicator are both running.

# "Flushing" screen



After pushing the "Flush" button on the main screen, you will visualize the "Flushing Screen"

In this screen you can select the desired flushing time and then start the flushing procedure by pushing the Start/Stop button. The elapsed flushing time is visualized bottom.

The flushing time depends on your plant: number and size of the membranes, length of the hoses, delivery of the water pressure pump of your boat... Read on the manual how to determine the right flushing time for your installation.

If you need to stop the flushing before it ends, you can push again the Start/Stop button. The elapsed time will freeze and you can after restart the flushing until it ends.

If you need to completely stop the flushing, you can push the "Cancel Flushing and Exit" button

Once the flushing is terminated the "Exit Screen" is visualized and you can now switch the machine off.

If you need to setup a recurring flushing, push the button and you will be redirected to the "Recurring Flushing Screen".

## "Recurring Flushing" screen

START-STOP BUTTON



CARRIED OUT FLUSHING OPERATIONS

If the boat is left for a period of time, there is an option to perform a 4-minute automatic flush every 5 days. It is recommended to use this procedure for a maximum of one month, in any case the software proceeds with automatic flushes up to a maximum of 60 days.

This program simply opens the flush valve for 4 minutes every 5 days. It will be the operator's care to leave the necessary on-board circuits open and/or energized (e.g. the boat's pressure pump).

**Disclaimer:** Running programs automatically, without any supervision of personnel on board can pose risks. We disclaim any responsibility for anything that may happen when an operator is not on board during the operations of the watermaker.

The first flush is performed one minute after the program is launched. The second flush after 5 days, 1 hour and 10 minutes and then with exactly 5 days intervals. One minute after the flush is finished, the just executed flush line is highlighted in the table.

The operation can be stopped at any time by pressing the START/STOP button again.

A temporary lack of power supply results in the cancellation of the future flushing operations.

## "Alarm" screen



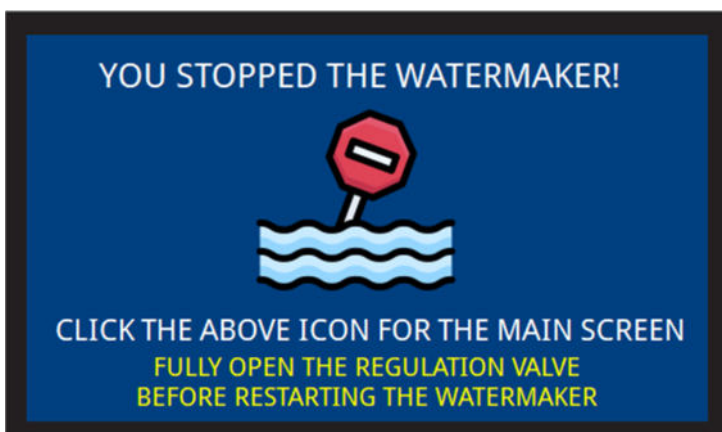
Should the operating pressure rises above 68 bar (980 PSI), the water maker stops automatically and the "Alarm screen" is visualized.

To restart the machine push the "Reset" icon and you will be forwarded to the welcome screen. Now you can restart the pumps.

### VERY IMPORTANT:

Do not forget to fully open the pressure regulation valve before restarting the pumps!!

## "Emergency Stop" screen



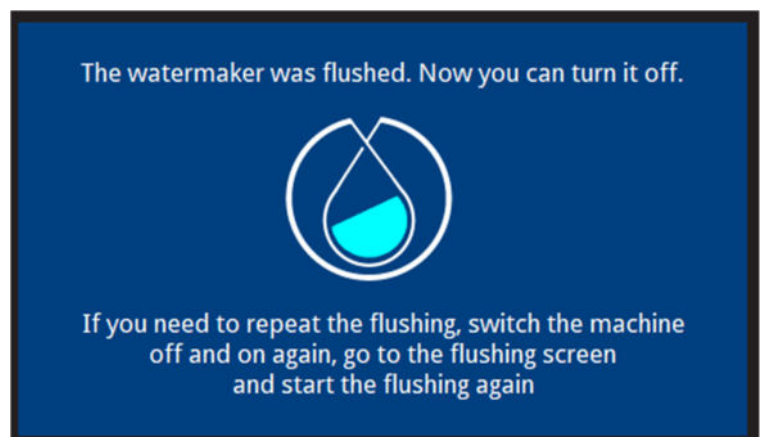
If you push the "Emergency Stop" icon in the main screen, the water maker is immediately and completely stopped and the "Emergency Stop" screen is visualized.

By pushing the icon in the middle of the screen you can reach again the welcome screen and restart the water maker. **Don't forget to fully open the pressure regulating valve before restarting.**

## "Exit" screen

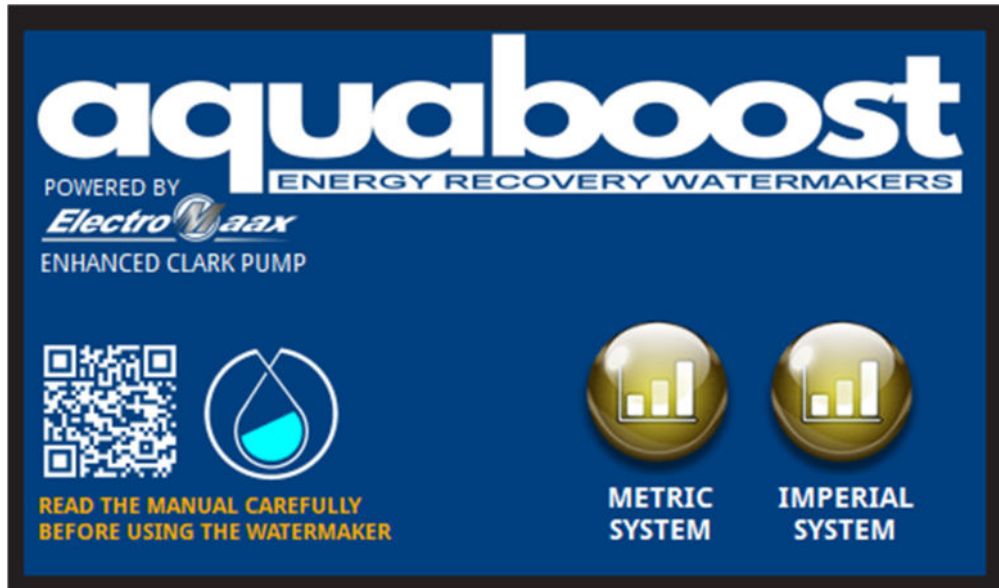
This is the last screen after the water-maker is flushed:

You can now switch your watermaker off.



# AQUABOOST MODELS

“Welcome” screen

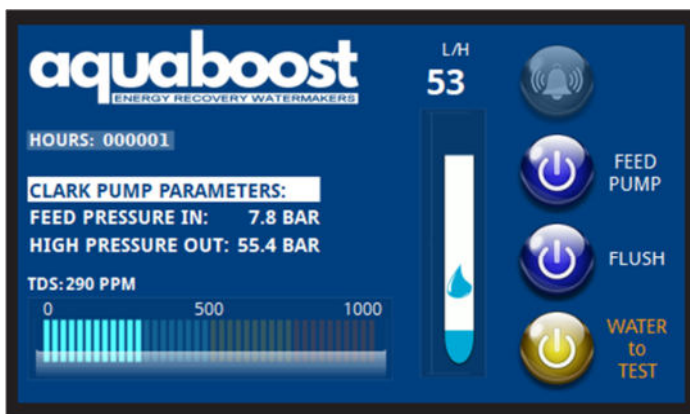


After switching the water maker on, the welcome screen is loaded on your display.

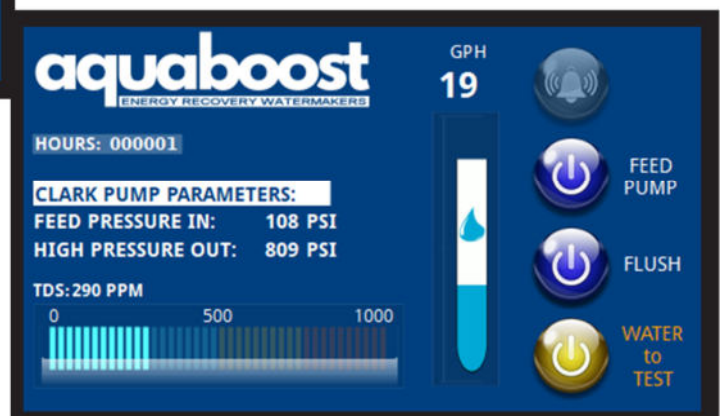
You have now the possibility to choose between the metric system and the imperial system: This means that you can read the parameters in liters/hour + bar (metric system) or alternatively in GPH + PSI (imperial system).

A QR code let you open the online documentation page of our website on your smartphone.

After clicking the preferred system, the main screen will be loaded



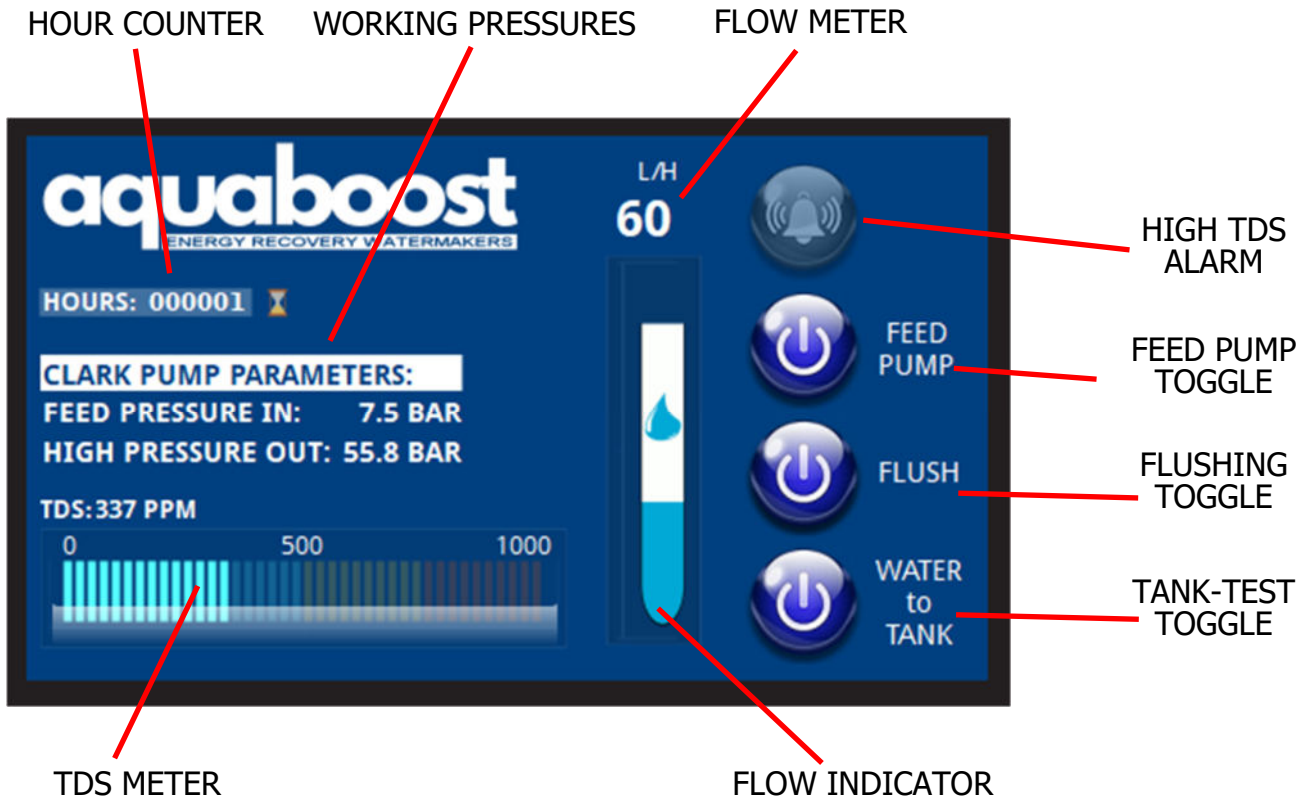
Metric System



Imperial System



## "Main" screen



Within this screen you can control and drive your Energy Recovery Watermaker:

### Gauges:

- Two digital manometers, visualizing the operating pressure at the inlet and at the outlet of the Clark pump
- Digital flow meter, visualizing the quantity of the produced fresh water.
- Animated Freshwater Flow Indicator
- Analog and digital TDS meter, visualizing the quality of the produced fresh water.
- Hour counter with animated sand clock.
- HIGH TDS warning icon (yellow between 500 and 750 PPM, red above 750 PPM)

### Toggles

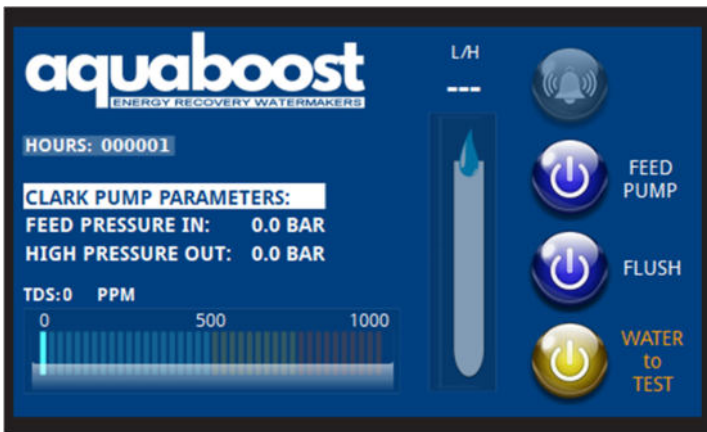
- Feed pump toggle.
- Flushing toggle.
- Tank-Test outlet diversion toggle.

The toggles are in

- Blue color when active and switched off
- Green color when active and switched on
- Gray color when inactive

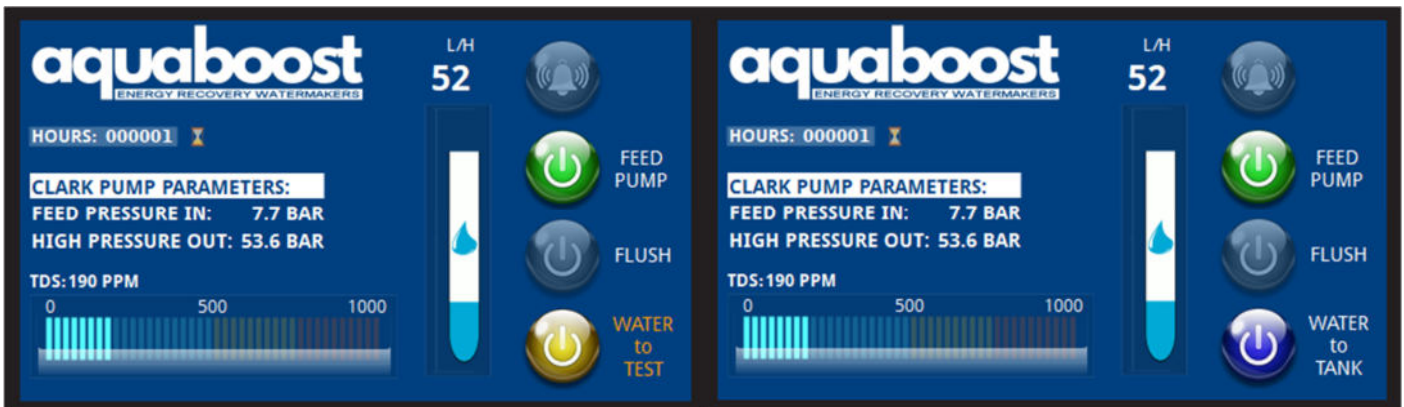
The flushing toggle can be activated only if the feed pump is switched off. When the water maker is running, the flushing toggle is inactive.

The Test outlet toggle is in blue color when the water flows to the tank and in yellow color when activated and the water is flowing to a Test outlet. It is deactivated if the TDS are above 750 PPM, and the water can only flow to the Test outlet (discard). A red alert text is visualized.



The watermaker is stopped:

- all the toggles are blue and the gauges show "0"
- The sand clock is hidden and the hour counter is stopped.
- The flow indicator is not running and the flow meter as well.
- The Tank-Test is yellow at the startup and the water flows to the test (discard) outlet as default. When running the operator can decide if/when divert it to the tank (below).



The watermaker is running, the TDS are below 500 and the operator can decide whether the water can flow to the tank or to the test outlet (discard).

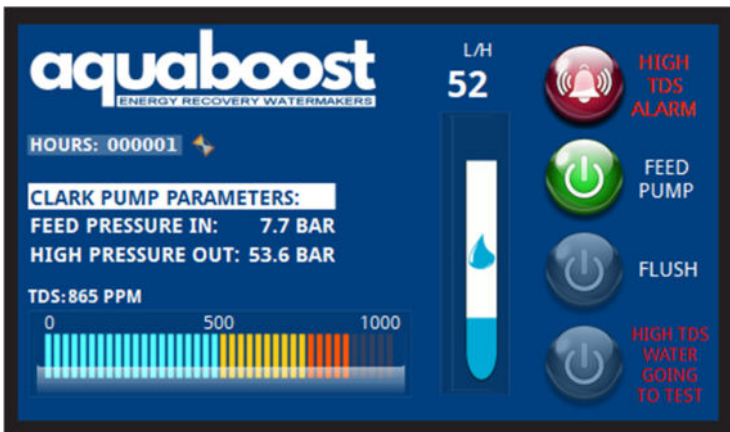
- The toggle of the feed pump is green.
- The toggle of the flushing is grey (deactivated).
- The toggle of the Test outlet is blue or yellow, depending where the water is going.
- The sand clock icon is rotating and the hour counter is running.
- The flow meter and the flow indicator are both running.
- The TDS are below 500 and the alarm is sleeping.



The watermaker is running, but the TDS are between 500 and 750. The operator can still decide whether the water can flow to the tank or to the test outlet (discard).

- The HIGH TDS ALARM is activated and it is shown in yellow colour.

**ATTENTION: The water may not be suitable for human consumption**

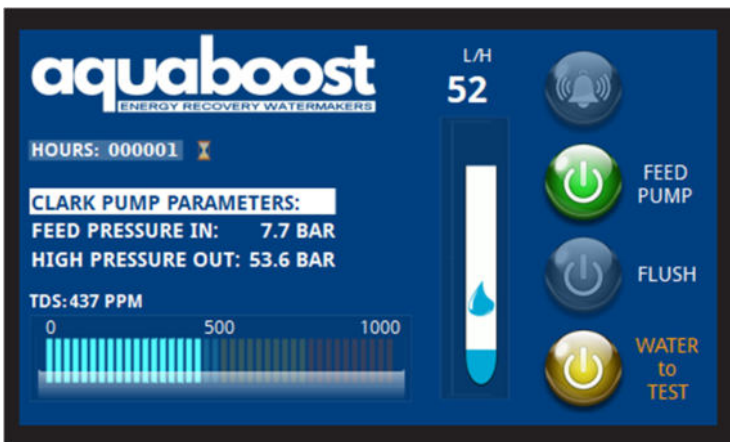


The watermaker is running, but the TDS are above 750. The operator can no longer decide whether the water can flow to the tank or to the test outlet (discard). The water flows as default to the test outlet (discard).

- The HIGH TDS ALARM is activated and it is shown in red colour.
- The Tank-Test outlet toggle is deactivated and the water is forced to flow to the test outlet (discard).
- A text message is shown near the toggle.

**ATTENTION: The water is not suitable for human consumption**

If the operator cannot resolve the issue, but he still needs that the water flows to the tank (the water cannot be used for human consumption, but it can still be used for washing and showers), he must manually disconnect the TDS sensor on the freshwater pipe, which sends the information to the display. Now the TDS will show "0" and he can divert the water to the tank using the toggle on the screen. The water remains not suitable for the human consumption.

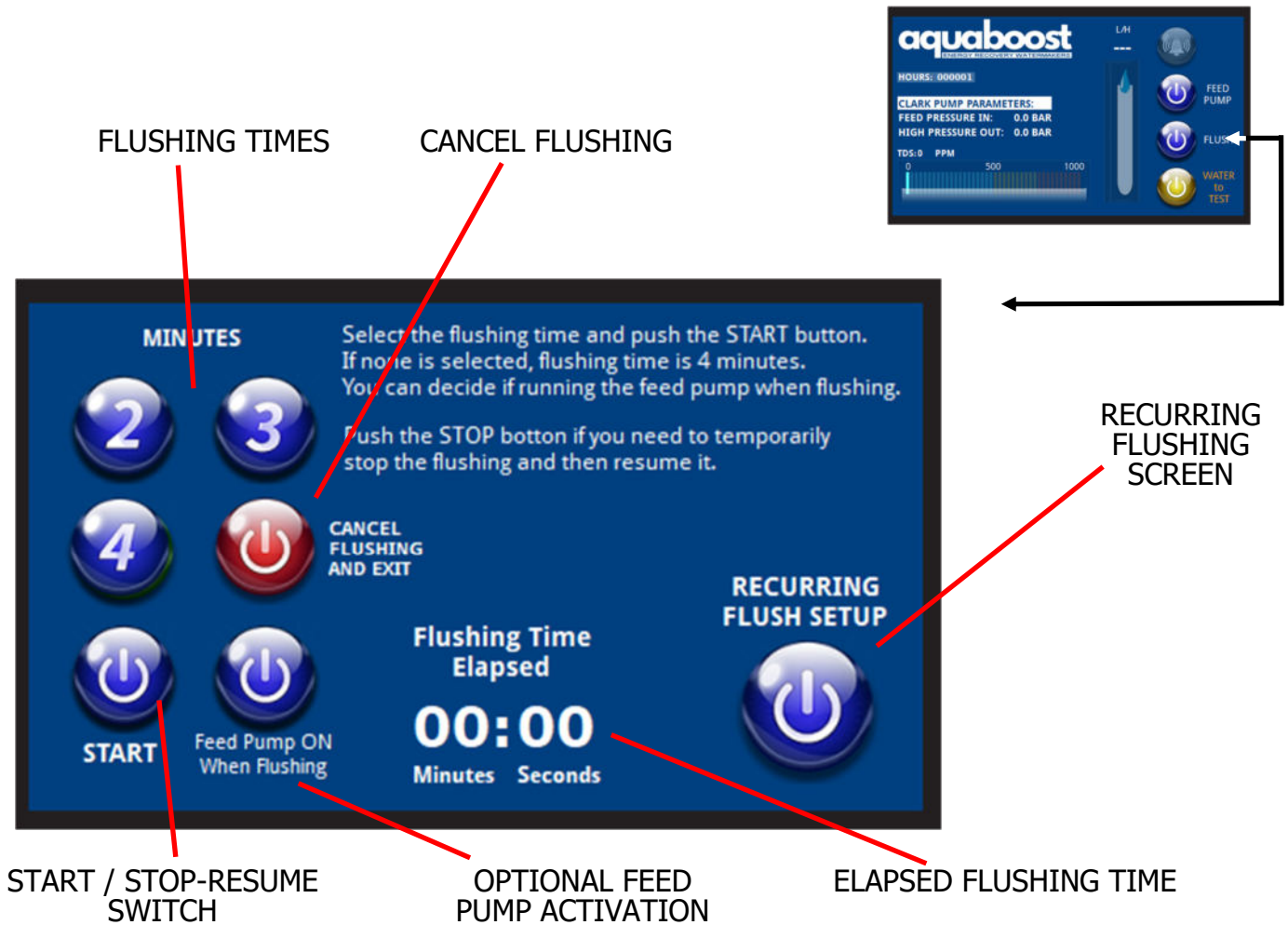


If the problem is solved and the TDS come back below 500 PPM, the water continues to flow to the test outlet (discard) until the operator decides to divert it again to the tank, using the toggle.

Usually the increase in TDS is due to a rupture of a membrane or its deterioration that has compromised its permeability. So it will no longer be able to stop salt molecules, nor any bacteria in the water. The water is therefore not to be used for human consumption.

**If the watermaker is used in fresh water, the TDS meter will no longer be able to tell if there is any problem in a membrane. It will always show acceptable values, but it is not certain that the water produced is bacteriologically uncontaminated.**

# "Flushing" screen



After pushing the "Flush" button in the main screen, you visualize the "Flushing Screen"

In this screen you can select the desired flushing time and then start the flushing procedure by pushing the Start/Stop button. The elapsed flushing time is visualized bottom.

You can decide if optionally let the feed pump run during the flushing operation using its button.

The flushing time depends on your plant: number and size of the membranes, length of the hoses, delivery of the water pressure pump of your boat... Read on the manual how to determine the right flushing time for your installation.

If you need to stop the flushing before it ends, you can push again the Start/Stop button. The elapsed time will freeze and you can after restart the flushing until it ends.

If you need to completely stop the flushing, you can push the "Cancel Flushing and Exit" button

Once the flushing is terminated the "Exit Screen" is visualized and you can now switch the machine off.

If you need to setup a recurring flushing, push the button and you will be redirected to the "Recurring Flushing Screen".

# "Recurring Flushing" screen

START-STOP BUTTON



CARRIED OUT FLUSHING OPERATIONS

OPTIONAL FEED PUMP ACTIVATION

If the boat is left for a period of time, there is an option to perform a 4-minute automatic flush every 5 days. It is recommended to use this procedure for a maximum of one month, in any case the software proceeds with automatic flushes up to a maximum of 60 days.

This program simply opens the flush valve (and activates the feed pump if selected) for 4 minutes every 5 days. It will be the operator's care to leave the necessary on-board circuits open and/or energized (e.g. the boat's pressure pump).

You can decide if optionally let the feed pump run during the flushing operation using its button.

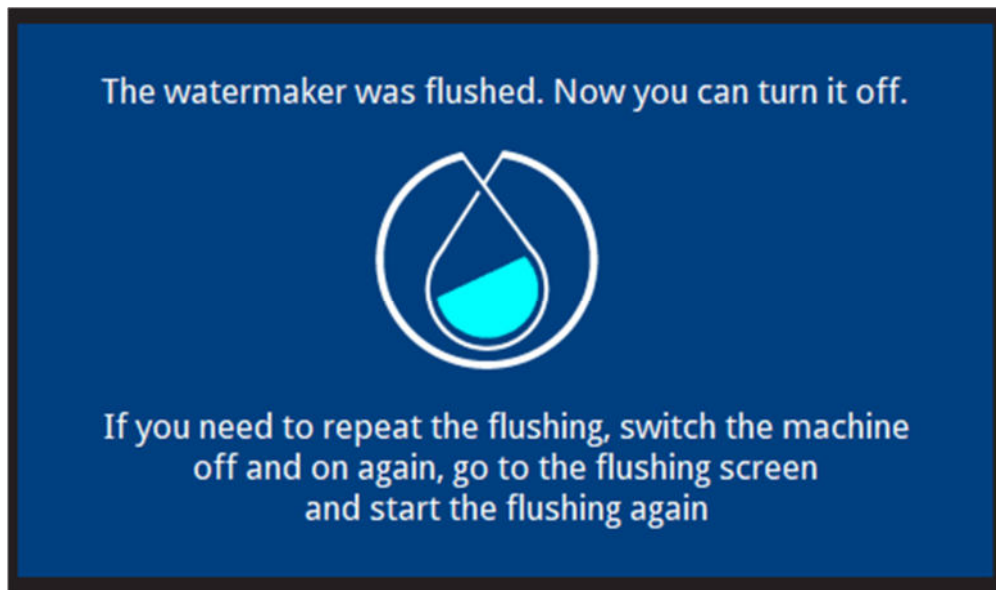
**Disclaimer:** Running programs automatically, without any supervision of personnel on board can pose risks. We disclaim any responsibility for anything that may happen when an operator is not on board during the operations of the watermaker.

The first flush is performed one minute after the program is launched. The second flush after 5 days, 1 hour and 10 minutes and then with exactly 5 days intervals. One minute after the flush is finished, the just executed flush line is highlighted in the table.

The operation can be stopped at any time by pressing the START/STOP button again.

A temporary lack of power supply results in the cancellation of the future flushing operations.

## “Exit” screen



This is the last screen after the watermaker is flushed:  
You can now switch your watermaker off.

Thanks for reading and for using our products.

---

### **Disclaimer**

This manual and its contents, including all text, images, and diagrams, are property of Cobram GmbH and are protected by copyright laws. Unauthorized reproduction, distribution, or modification of any part of this document, in any form or by any means, is strictly prohibited without prior written permission from Cobram GmbH

The information provided in this manual is for reference purposes only. While every effort has been made to ensure accuracy, Cobram GmbH assumes no responsibility for errors or omissions. The company reserves the right to make changes to the product and its documentation without prior notice



Stuwerstrasse 50/1  
1020 Vienna - Austria  
<https://bluegold-watermakers.com>  
[office@bluegold-watermakers.com](mailto:office@bluegold-watermakers.com)