



## OPERATE THE WATERMAKER WITH THE 4.3" TOUCH SCREEN DISPLAY

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.  
The simplest way to run your water maker!

### "Welcome" screen

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

From this screen you can access the other screens:

- "Contact Us" screen
- "Machine Information" screen
- "Quick Reference Guide" screen
- "Main Screen" where you can operate the water maker

### **NOTE:**

After touching the desired button,  
it can take 2/3 seconds to load the following screen.  
Please be patient.



If you switch to the main screen to start the water maker, you won't be able to visualize the welcome screen again.

To return to the welcome screen you have to switch the water maker off and on again.

In this screen appears a notice to remind you to fully open the pressure regulation valve and to check if the seawater intake and the brine discharge are open.

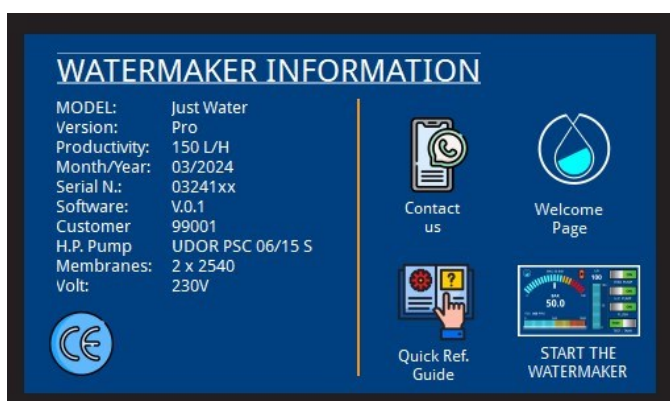
A QR code let you open the pdf of the manual in your smartphone.

## “Contact Us” screen



In this screen you can visualize our address, email and WhatsApp number for a quicker assistance in case of doubts or problems during the installation or the running. Please send first a message with your contact details, your questions and possibly some images.

## “Water Maker Information” screen

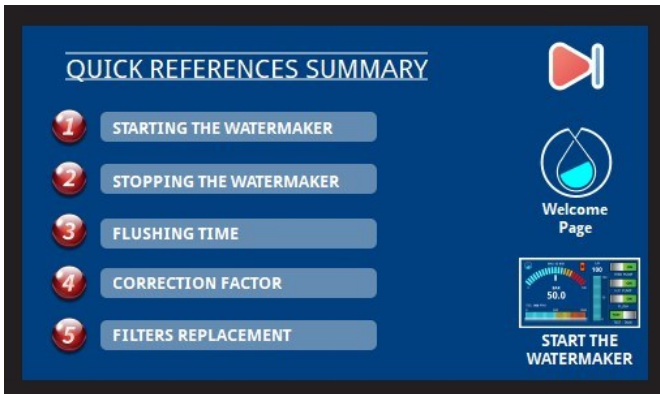


In this screen you can visualize some relevant information about your water maker:

- Model and Version
- Productivity
- Type of high pressure pump and Voltage
- Number and size of the membranes
- Month/Year of build
- Serial number of the machine
- Version of the software of the touch screen display
- Customer's number (first owner registered in our database)

From this screen you can reach all the other screens, but if you switch to the main screen to start the water maker, you won't be able to visualize the welcome screen again. To do so, you must switch the water maker off and on again.

# "Quick reference Guide" screen



In this screen you can visualize the index of some useful pages, which will show you the procedure to start, stop and flushing your water maker, will help you in understanding how the productivity is related to the temperature of the water and also show when a prefilter needs to be replaced.

From this screen you can reach the main screen to start the water maker. You won't be able to come back to this screen from the main screen.

Temperature °C	Temperature °F	Corrector Factor
5	41.0	2.58
6	42.8	2.38
7	44.6	2.22
8	46.4	2.11
9	48.2	2.00
10	50.0	1.89
11	51.8	1.78
12	53.6	1.68
13	55.4	1.61
14	57.2	1.54
15	59.0	1.47
16	60.8	1.39
17	62.6	1.34
18	64.4	1.29
19	66.2	1.24
20	68.0	1.19

Temperature °C	Temperature °F	Corrector Factor
21	69.8	1.15
22	71.6	1.11
23	73.4	1.08
24	75.2	1.04
25	77.0	1.00
26	78.8	0.97
27	80.6	0.94
28	82.4	0.91
29	84.2	0.88
30	86	0.85

The productivity decreases for water temperature under 25 degrees

Divide the productivity by the correction value at the given temperature

Go to the MAIN SCREEN

The service life of the filter elements is closely related to the type of inlet water. It is recommended to change the filters every 50/100 hours of operation, but the interval can be smaller

When you remove the filter, you may notice that the color of the inner part of the cartridge is lighter than the outer part. The filter cartridge should never turn completely grey, it should be replaced before this happens.

Go to the MAIN SCREEN

- Open the seawater valve. If you have installed a non-self-priming feed pump, make sure that it is also flooded.
- Turn the pressure regulation valve counterclockwise until it is fully open.
- Switch on the system with the main switch. Switch on the feed pump.
- Switch on the high pressure pump (pressure 0 BAR).
- Check that the seawater is drained and check for leaks
- Let the watermaker run at 0 BAR for one minute or two, to drain from the membranes all the freshwater of a previous flushing
- Slowly turn the pressure control valve clockwise until 55/60 bar is displayed on the pressure gauge.

While doing this, watch the flow meter:  
Depending on the salinity of the seawater, either the maximum pressure or the maximum flow rate of your water-maker will be reached first.

Go to the MAIN SCREEN

- Turn the pressure regulator valve counterclockwise until the pressure gauge indicates 0 bar.
- Let the watermaker run for a couple of minutes depressurized. This causes the removal of the accumulated salt on the mem branes.
- Switch off the high pressure pump.
- Switch off the feed pump.
- Switch on the Easy Flushing System. The automatic pressure pump of the boat will start. Allow the system to flush for the time needed. 2 minutes is a reasonable amount of time.

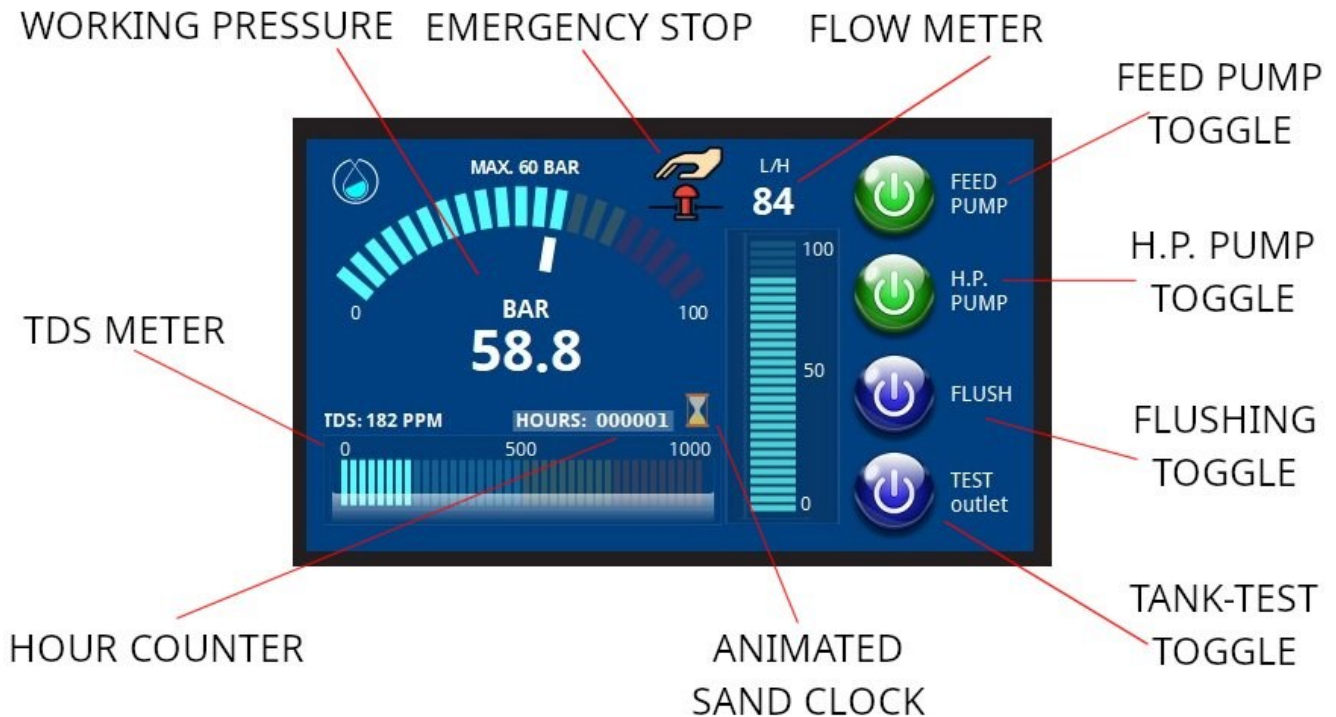
Go to the MAIN SCREEN

The time needed for rinsing a watermaker depends on several factors: numbers of the membranes, length of the hoses of the plant, delivery of the pressure pump of the boat... Therefore we cannot give a value in minutes for this time. Trick to work out how long it takes to flush the system: You can simply disconnect the reject/discard hose from the through hull and discharge the rinsing water into a bucket and constantly check its salinity by tasting it. Once the water falling in the bucket is no longer salty at the taste, you can stop your watch and now you know how many time will it take in the future for rinsing your watermaker. Remember that the flushing of the watermaker must be carried out without switching on feed and the h.p. pump.

Go to the MAIN SCREEN

Two arrows in the upper corners of the screen allow to switch among the pages.

## "Main" screen



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

### Gauges:

- Analogic and digital manometer, visualizing the operating pressure.
- Analogic and digital flow meter, visualizing the quantity of the produced fresh water.
- Analogic and digital TDS meter, visualizing the quality of the produced fresh water.
- Hour counter with animated sand clock.

### Toggles

- Feed pump toggle.
- High pressure pump toggle.
- Flushing toggle.
- Tank/Test 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 toggle is in blue color when the water flows to the tank and in yellow color when the water flows to a test outlet.



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 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 watermaker is running and the water is flowing to the test outlet:

- 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.

## “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 in the right bottom corner.

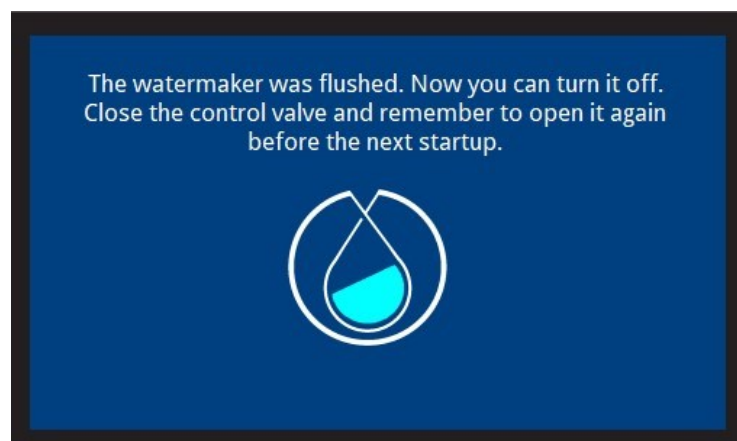
The flushing time depends on your plant: number and size of the membranes, length of the hoses, delivery of the water pressure pump of your boat... Two minutes is a good average, anyway read on the manual how to determine the right flushing time for your installation.

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 “Exit Button”

Once the flushing is terminated the “Exit Screen” is visualized and you can now switch the machine off. A note remembers you to close the regulation valve (to avoid as possible that the vessels can get empty).

## “Exit” screen



## "Alarm" screen



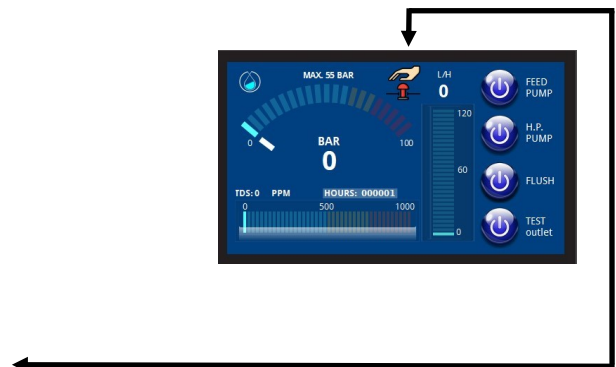
Should the operating pressure raise above 68 bar, the water maker stops automatically and the "Alarm screen" is visualized.

To restart the machine push the "Reset" icon and you will be forwarded to the main 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 main screen and restart the water maker. **Don't forget to fully open the pressure regulating valve before restarting.**



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