

## START-UP GUIDE

# DESSALATOR® FREEDOM D60 & D100

60 ou 100 liters/hour



## Dessalator®

ZI des 3 Moulins, 282 rue des Cistes

Bâtiment Euro 92

06600 Antibes - FRANCE

[www.dessalator.com](http://www.dessalator.com)

[contact@dessalator.com](mailto:contact@dessalator.com)



## Procedure for commissioning the Dessalator®

Important step prior to starting-up:



**Before starting up, check that the valves are open.**

Mandatory steps:

- When using the device for the first time, or after changing the filter, or after the boat has been grounded or stopped for a long time, you should flush the system using fresh water by operating the three-way valve on the prefilter (*see Appendix at the end*). This operation must be carried out for 2 minutes with the watermaker stopped and the pressure regulator open (1/4 turn counterclockwise, before the left stop).
- Once the system is fully filled, put the valve back in seawater position (*see Appendix at the end*).
- It is important to take into account the ampere capacity of the battery as well as the operating time.

**When using the system in 12 or 24V for more than 5 minutes, it is mandatory to turn on either the boat engine, or the battery charger through the shore power supply, or a generator.**

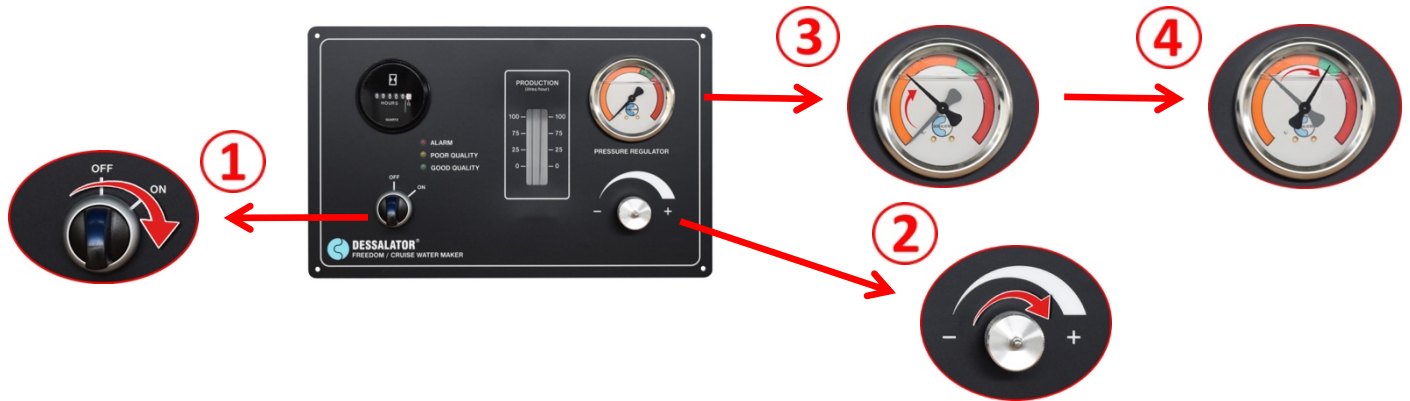
## First start-up of the watermaker :

### Starting the watermaker :

Set the switch ① to ON. Once the engine has started (the orange LED will flicker), gradually turn the pressure regulator knob ② to the right to increase the pressure towards the middle of the orange zone ③ on the pressure gauge then continue gradually increasing the pressure until it reaches the green zone ④ on the pressure gauge.

**This pressure build-up procedure should last approximately 1 minute.**

Once this procedure is done, your watermaker will start producing fresh water, after checking that it is of good quality.



### **↳Note :**

The fresh water yield depends on the temperature and salinity of the sea water as well as on the good quality of the voltage supplying the engine.

## Stopping the watermaker: without rinsing of the membranes:

It is not necessary to rinse your membranes if you use your watermaker regularly.

Set the switch ① to OFF, the watermaker will stop.

You can now lower the pressure regulator knob ② (towards the left, the initial position).



**Beyond 10 days without use**, it is best to rinse the membranes before the watermaker is started-up again (see manual rinse procedure in **Appendix**).

## Stopping the watermaker: with rinsing of the membranes:

A rinsing must be carried out if the watermaker is not going to be used for more than 10 days.

After using the watermaker, **do not turn it off**. Start turning the knob of the pressure regulator ② (counterclockwise) to engage the rinsing mechanism ③. The green and yellow LEDs ④ on the control panel will turn on, indicating that the flushing procedure is started

The watermaker will then start the rinsing procedure, which lasts 30 seconds. Once it is complete, the green and yellow LEDs ④ will turn off and the only remaining light will be the flashing blue LED on the switch ①. If you do not have a Mini Remote Control, you can turn off the system by positioning the switch ① to OFF.



If the watermaker is stopped for more than 1 month, it is essential to rinse it for 2 minutes (see *Appendix at the end*). If you are not going to use the watermaker at all, it is essential to either sterilize the membranes for storage (for a maximum duration of 6 months) or to rinse it out at least once a month.

## Using the Micro Remote Control (optional):




Once the first start-up was been done with control panel, you can use the Micro-Command to: monitor the status of the system or stop the watermaker.

➔**Note** : Only the **AUTOMATIC** and **NAVIGATOR** versions are capable of starting or rinsing directly from the Micro-Control.

## STOPPING YOUR WATERMAKER :



2 sec.

To STOP your watermaker :  
Press and hold the button  for about 2 seconds.  
Upon release of the button, the watermaker will STOP and go to STANDBY.



**Note** : LEDs are on



LEDs are flashing



LEDs are off



## Using the Mini Remote Control (optional):

Once you start-up the system for the first time using the control panel, you can use the Mini Remote Control to perform the following: monitor the state of the system, stop or schedule a delayed shutdown.



### Stopping the watermaker WITHOUT rinsing of the membranes:

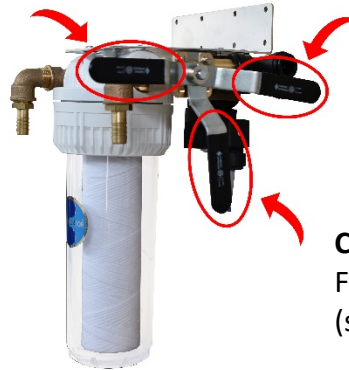
Directly on the Mini Remote Control by pressing the  button until you hear 2 confirmation beeps that indicate that the watermaker will shut down and go into stand-by mode.

➡ **Note:** Only the **AUTOMATIC** and **NAVIGATOR** versions are capable of starting or rinsing directly from the Mini Remote Control.

## Appendix :

### Seawater position:

For use in desalination mode



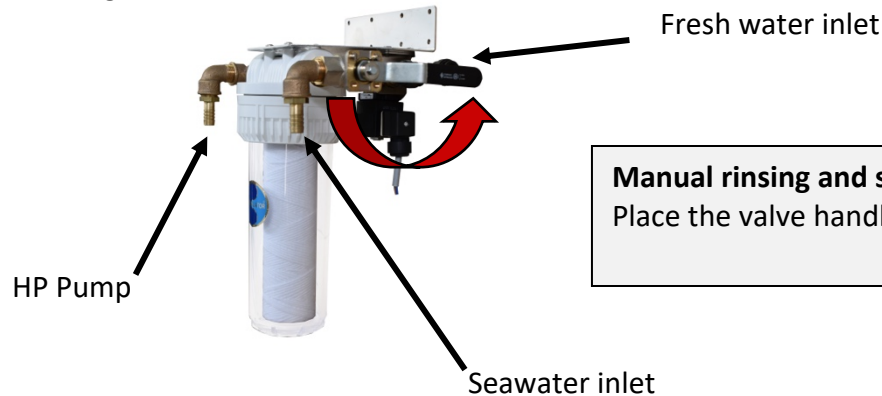
### Fresh water position:

For manual rinsing or sterilization when needed

### Closed position:

For changing the filter cartridge  
(see **Appendix A4**)

Your DESSALATOR® system comes equipped with an automatic rinsing feature, here is the procedure to follow if you choose to do manual rinsing:



### Manual rinsing and sterilization:

Place the valve handle on the fresh water position.