DESSALATOR®
WATERMAKERS - DESSALINISATEURS

AC CRUISE

D60 & D100

INSTALLATION AND OPERATING MANUAL

BASIC & AUTO



60 / 100 L/h	230 or 120 VAC	Basic & Auto
Nominal output	Power supply	Model

Installation • Operation • Maintenance

ENGLISH EDITION

Document version: v4.1 EN (04/2026)

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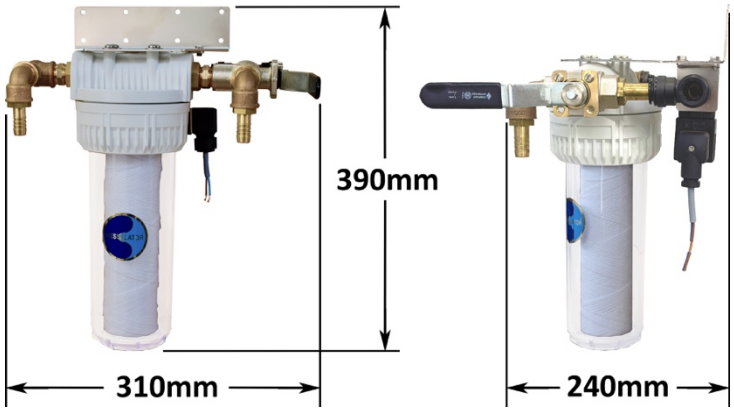
List of Components

Hull Valve



- Must be placed as low as possible in the boat so as to avoid drawing in any air
- Must be installed towards the back for a motorboat, or centered near the keel for a sailboat. The ribs of the strainer should be placed towards the front the boat to force the entry of water by scooping during navigation.
- The strainer of the hull valve helps stop large particles at the entrance of the system.

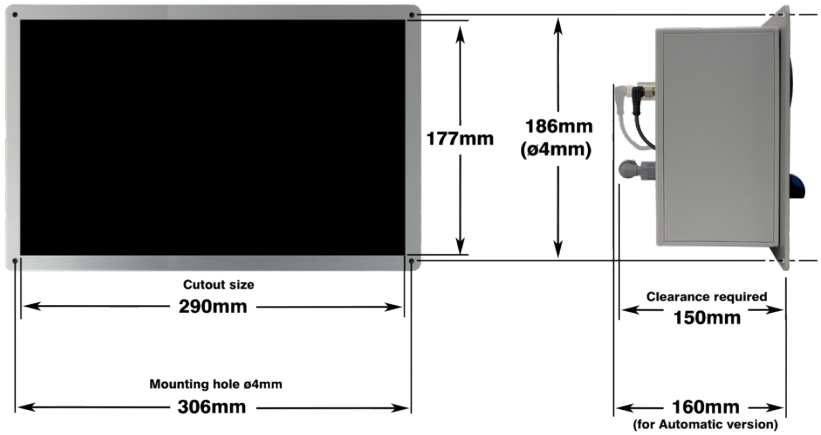
Prefilter



- Must be placed as close as possible to the hull valve and, if possible, beneath the waterline to ensure a better yield/output. If this is not possible, you must install a pre-pump (optional).
- Helps stop solid particles in seawater at the inlet of the motor/pump block. Up to 5 microns.
- Comes with a tool for screwing / unscrewing the tank.
- Comes equipped with a solenoid valve for automated rinsing.
- Comes equipped with a 3-way valve.

Front Control Panel :



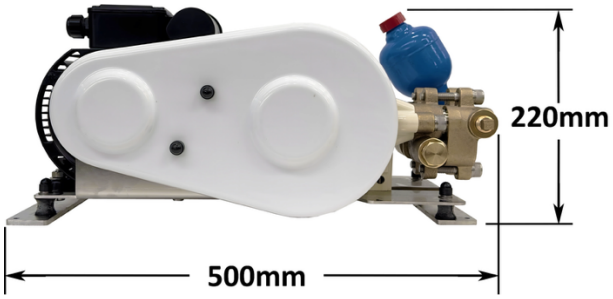


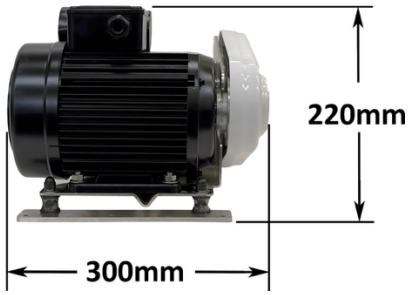
Composé des éléments suivants :

- A high-pressure manometer.
- A flowmeter
- A start switch.
- A know for pressure adjustment.
- An operating hours counter.
- Three indicator lights.

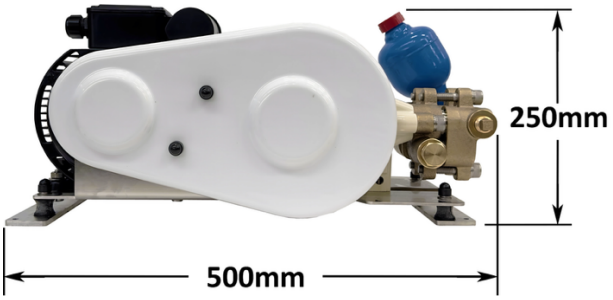
Motor/Pump block:

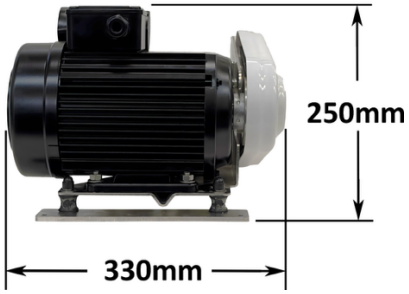
D60





D100





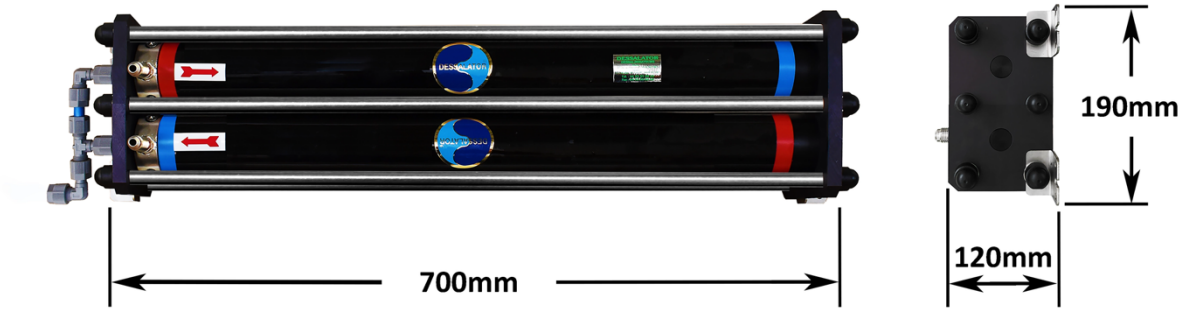
- Must ideally be placed beneath the waterline for optimal yield/output.

➥**Note :** If it is not possible to install the motor block beneath the waterline, it is necessary to install the optional booster pump.

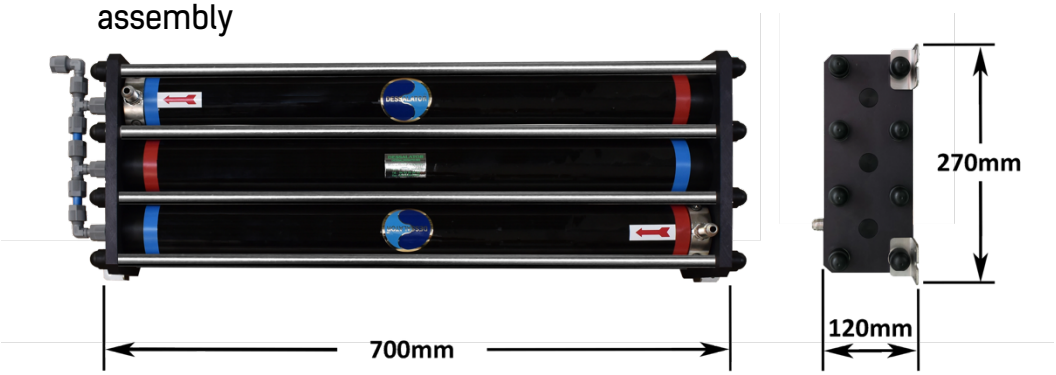
- Composed of the 230 or 120 Volt motor.
- **Must be installed in a ventilated space.**
- A fuse holder is provided.

Membrane Block

- The membrane block includes 2 seawater membranes integrated into a compact



- The membrane block includes 3 seawater membranes integrated into a compact assembly



Piping (supplied by Dessalator®)

- High-pressure piping from the pump to the membranes and from the membranes to the control panel. An 8-meter pipe is provided; it should be cut into two parts. The length of each part is to be determined according to the distance of the different elements.
- 4 special DESSALATOR® fittings* for high-pressure piping (see assembly procedure in Appendix A2).
  - * Including one 90° elbow fitting for the back of the control panel, which can swivel 360°.
- Fresh water production piping going from the outlet of the membrane block to the dashboard (6 meters long).

Assembly

1) List of supplies necessary for assembly

- Screws (self-tapping and more).
- Stainless steel ties, Ø 8-16mm and Ø 12-22mm.
- 'Electrician' plastic ties.
- Teflon tape.
- Loctite 542 liquid or Loctite 577 paste.
- Polyurethane sealant, Sicaflex or equivalent.
- Corrugated sheath for electric cables and high-pressure tubes.
- Braided-core flexible hose, Ø 10mm and Ø 12mm inner diameter (Tricoflex) and 3mm thick.
- Various tools (drills, saws, Ø 21mm hole saws, etc.).

2) Seawater inlet

Seawater inlet valve

- The strainer should be placed as low as possible beneath the waterline so that it does not draw in any air. It should be placed far from the discards.
- Pierce the hull with a Ø 21mm hole saw.
- The streaks of the strainer must be placed towards the front of the boat to allow the water to naturally enter by scooping during navigation.
- Seal the junction with the hull properly using polyurethane sealant or Sicaflex. Do not forget to paint the submerged part with special underwater paint.
- The hull valve must remain accessible for maintenance operations.
- Seal the valve/strainer and valve/hose connections with Loctite 577.

Cartridge prefilter

① **Seawater position:**

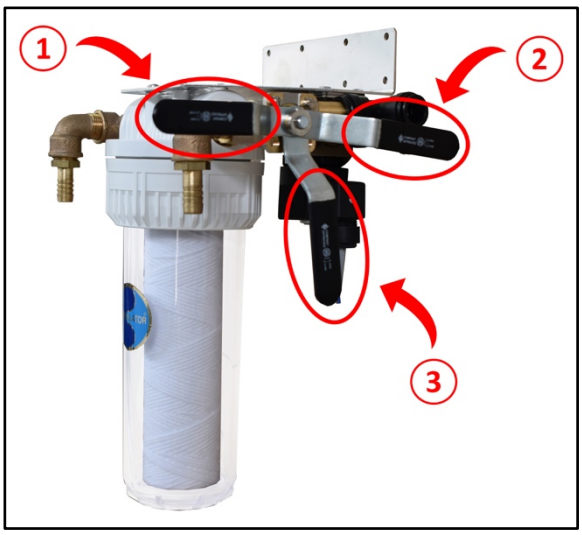
For use in desalinization mode

② **Fresh water position:**

For manual rinsing or sterilization when needed (**see Appendix A3**)

③ **Closed position:**

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



- The prefilter must also be installed beneath the waterline to ensure a better yield/output. It must be easy to access.
- The fixing bracket is reversible to allow you to adjust the installation height.
- Piping connections must be made with Tricoflex Ø 12 mm (inside diameter), for the entire seawater system as well as the pressurized rinsing system.
  - Do not forget to fasten 2 stainless steel collars on each fitting.
- Allow a minimum of 3 cm below the filter body for the clearance of the tank when opening it. A screw is provided for screwing / unscrewing it.
- The connection for fresh water rinsing must be done with water from the pressurized freshwater system.
- A solenoid valve is mounted behind the prefilter for automatic rinsing.
- The valve handle must be in seawater position (see diagram above with the 3 positions of the 3-way valve).

For manual rinsing, put the valve handle in fresh water position (see diagram above with the 3 positions of the 3-way valve) and follow the instructions in **Appendix A3**.

To replace the filter cartridge, follow the procedure in **Appendix A4**.

During this procedure, be careful not to lose the tank's O-ring. Fill the system with fresh water for 30 seconds to 1 minute before putting the valve handle back into the seawater position (see diagram above with the 3 positions of the 3-way valve).

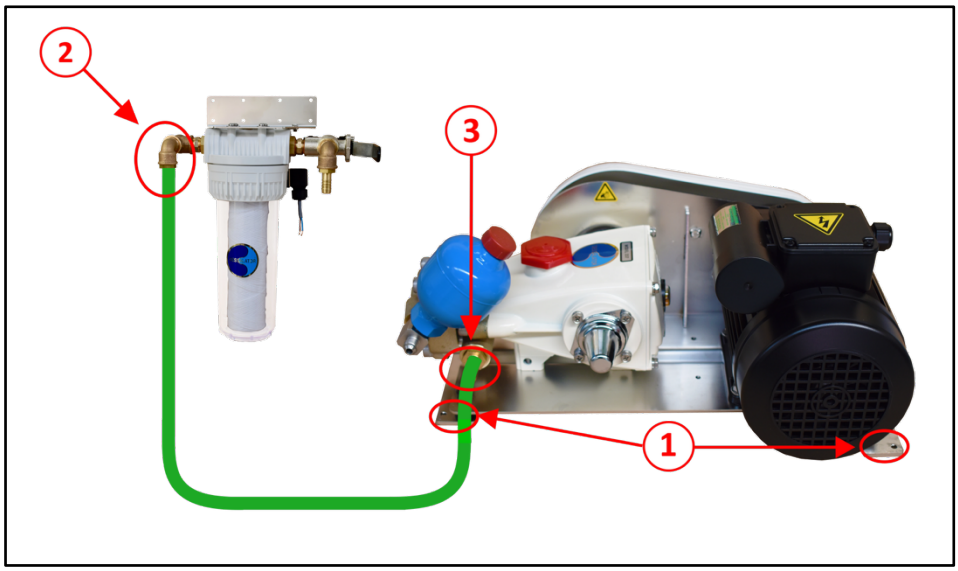
Connections

- Use Tricoflex Ø 12mm (inside diameter) for the seawater system and for pressurized rinsing.
- Fasten two stainless steel collars on each connection, with the clamping heads positioned opposite one another.
- Connect the pressurized fresh water from the outlet of the water unit to the 3-way valve.
- Connection can be made under a sink, a washbasin or on the path of the pressurized cold water piping.
- The valve handle must be aligned with the filter.

Tip : If the pipes are to pass through walls or be in contact with sharp corners, provide protection against wear and friction by inserting them into a sheath or pipe of greater diameter.

3) Motor/Pump Block

- To ensure optimal production, the assembly of the high-pressure motor block must be completed as low as possible in the boat, in a horizontal position and in an area protected from water sprays.
- Use the 2 stainless steel legs① under the 2 motors to fix the motor block. Leave a few centimetres of wiggle room around it.
- Provide sufficient airflow for the ventilation of the motors.
- The connection of the prefilter outlet② to the inlet of the pump on the suction-side pump③ should be done using Tricoflex piping Ø 12mm (inside diameter) and 2 stainless steel collars at each connection.
- The connection of the pump's high-pressure head to the membrane inlet (red mark) should be done using a high-pressure hose that is cut to size (follow closely the assembly instructions in **Appendix A2**).
- Put a little liquid Loctite or threadlock on the male and female cones before each connection.



① Stainless steel legs for fixing the motor/pump block

② and ③ Connect the prefilter outlet to the pump intake

: Tricoflex piping Ø 12mm (inside diameter) for the water system

4) Electric connections

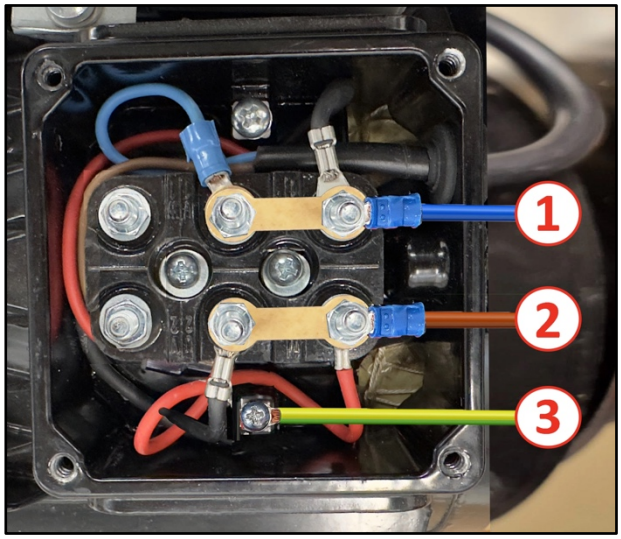
WARNING!

Never work with the power on!

Turn off the power of your entire system.

- The control panel must always be supplied with direct current.
- The 230V (or 120V) motor connection is made with the cable coming from the control panel (see page 13, cable 5).

230V or 120V Motor



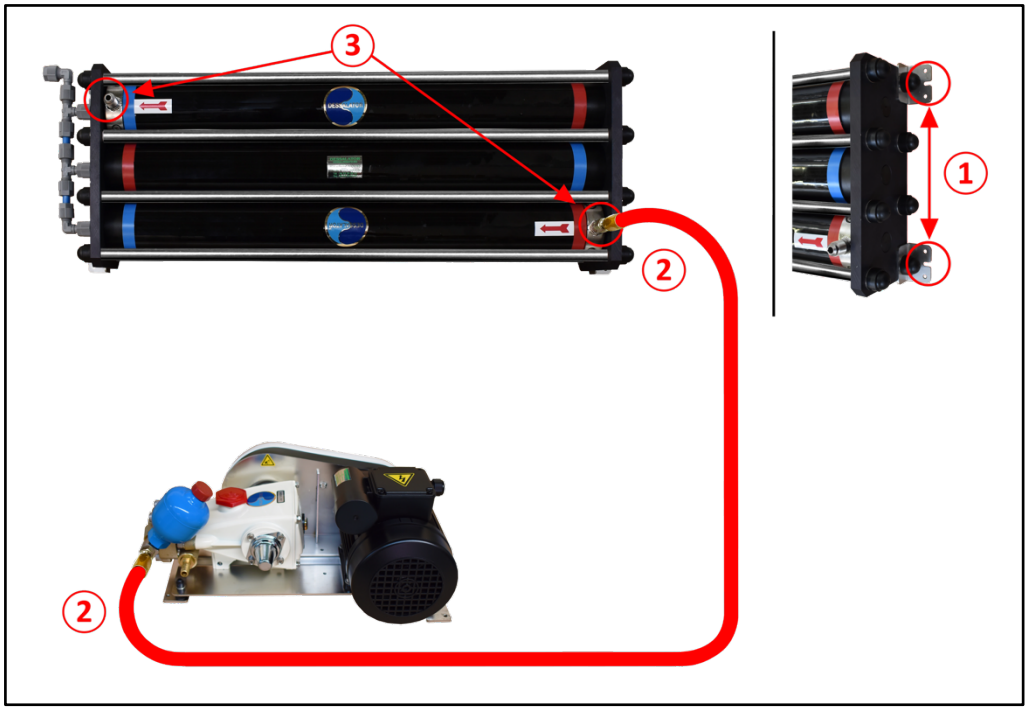
① Connect the neutral cable (blue wire)

② Connect the phase cable (brown wire)

③ Connect the ground wire (yellow/green wire)

5) Membrane Block

- The membrane block should preferably be mounted horizontally (on the base or side).
- A vertical position might lead to a yield/output loss over time.
- Fastening is done using self-tapping screws in the stainless steel brackets ① .
- It is necessary to sheath the pipe connecting the output of the high pressure pump to the inlet of membranes ② because of the vibrations, which might lead to leaks if the pipe is attached or in direct contact with something.
- The installation of the high-pressure nozzles must be carried out according to their assembly instructions (see **Appendix A2**).
- Put some Loctite or threadlock on the 2 male and female cones before tightening.
- Available as an option: 90° elbow high-pressure nozzle for the inlet and outlet of the membranes ③ .

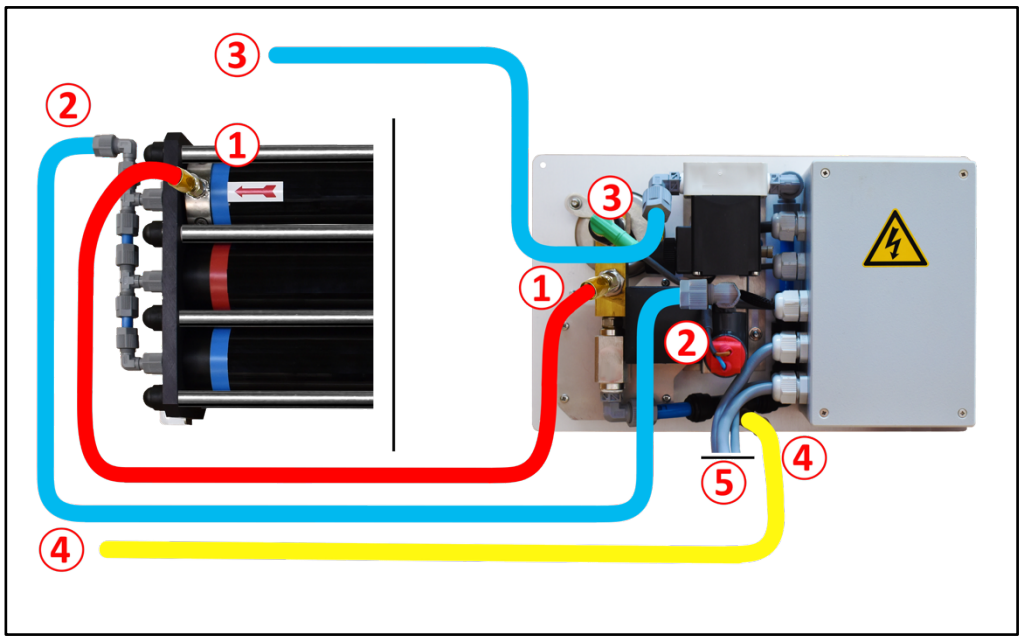


① Stainless steel legs to fix the membrane block
② Connection of the high pressure pump to the inlet of the membrane block
③ Membrane heads (optional 90° elbow connection for membrane heads)
Hose for the high-pressure water system (supplied)

6) Control panel

The control panel must be mounted on a vertical panel.

Ensure unrestricted access to the back of the control panel, this will make connections easier. You should place it in a place where the light indicators are visible. Example: below or on the sides of cupboards, under the chart or centre table, on the front panel of a rear berth etc.



① Hose for connecting the high-pressure membrane outlet to the high-pressure control valve on the back of the front panel. (Black high-pressure hose supplied)

② Hose for connecting the water outlet of the membranes to the inlet of the probe of the panel. (Outside diameter Ø 10mm pipe supplied)

③ Hose for connecting the fresh water outlet of the panel to the tanks, dispensing clarinet or water inlet or with a tee provided that there is no valve on the outlet of the water tank. (Outside diameter Ø 10mm pipe not supplied, use preferably Tricoclair)

④ Hose to connect the discharge of panel. To be connected preferably to a water disposal system like the evacuation of a sink, washbasin, cockpit etc. In this case, do not forget to open the drain valves during use. (Ø 12mm inside diameter pipe not supplied)

⑤ Cables to be connected:
- 230V (or 120V) power supply. The provided circuit breaker must be placed on this line, if you do not already have one available on your 230V switchboard
- Motor power supply 230V (or 120V). See instructions for connection on page 10.

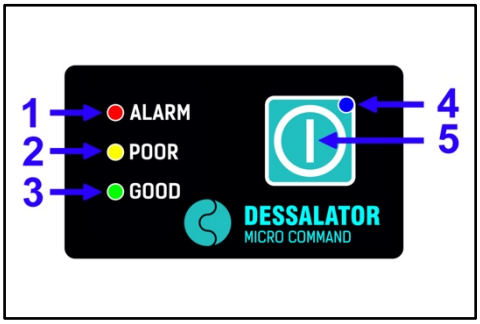
7) Micro Remote Control (optional)

General presentation:

The Dessalator® Micro Remote Control Dessalator allows you to restart, stop, perform a rinse and monitor the watermaker **(only with the Automatic and Navigator versions).**

The Mini Remote is very intuitive, which is why this quick guide only describes the basic functions and is meant to serve as a convenient reference





1: RED LIGHT – ALARM

2: YELLOW LIGHT – POOR QUALITY

3: GREEN LIGHT – GOOD QUALITY

4: BLU LIGHT – STATUS LIGHT

5: ON / OFF BUTTON

➥**Note** : **in the event of an alarm, the machine must be restarted from the control panel (and not from the Micro-Command).**

Start-Up

1) Precautions before start-up



WARNING!

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

Mandatory :

- When using the device for the first time, after changing the filter, 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 A3**).
- Purge the system for 1 minute: watermaker must be stopped and the pressure regulator open (counterclockwise).
- Once the system is filled, put the valve back in seawater position (see **Appendix A3**).

➥**Note :** If you are not going to use the watermaker at all for a month or more, we recommend to either sterilize the membranes for storage (for a maximum duration of 6 months) or to rinse it out at least once a month.
Before starting the system back up, we recommend rinsing it out for two minutes (see **Appendix A3**).

2) Starting-up the watermaker unit on manual mode :



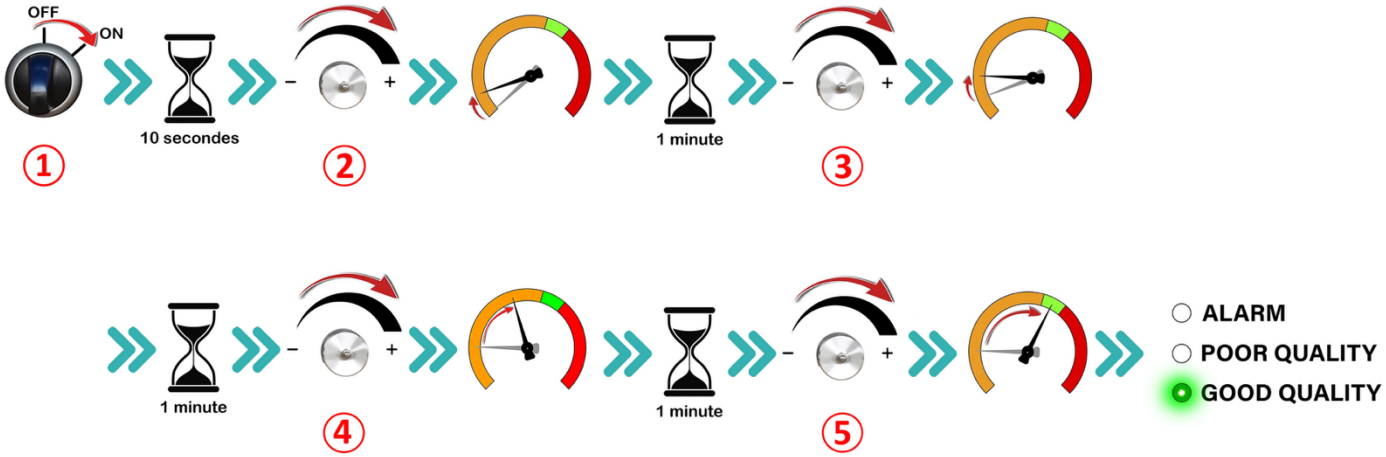
① Make sure the hull valve for the watermaker is opened, the selection valve on the pre-filter is in the sea water position and turn the pressure regulator knob almost fully counter clockwise (towards the (-) position).
Set the switch to ON.

② Wait until only the YELLOW LED blinks. Slightly increase the pressure up to 8 o'clock on the pressure gauge using the regulator knob. Stay in this position for about one minute.

③ Then increase the pressure to 9 o'clock using the regulator knob. Stay in this position for about one minute.

④ Then increase the pressure to 11 o'clock using the regulator knob. Stay in this position for about one minute.

⑤ Now you can increase the pressure to the green zone on the pressure gauge. When the water quality LED lights up green, your water maker produces fresh water.



➥**Note** : Fresh water production depends on seawater temperature and salinity

3) Automatic Mode Start-up :

The AUTOMATIC range is equipped with a motorized pressure regulator. Simply set the switch to ON; the regulator control knob will automatically increase the pressure into the orange zone, then gradually adjust it into the green zone on the pressure gauge.

This procedure takes approximately 3 minutes.

Once completed, the watermaker unit will begin producing fresh water after verifying that the water quality is satisfactory."



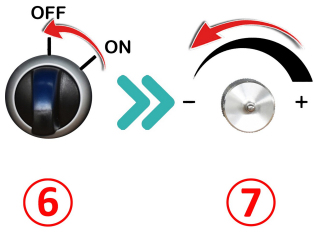
➥**Note** : Fresh water production depends on seawater temperature and salinity

4) Stopping the watermaker : without rinsing of the membranes

Membrane flushing is not required provided the system is operated regularly (minimum once every three weeks).

⑥ Set the switch to OFF; the watermaker unit will stop.

Turn the pressure regulator control knob to the minimum (–) position by rotating it counterclockwise



If the system remains unused for **more than three weeks**, membrane flushing is recommended (refer to the manual flushing procedure in **Appendix A3**).

This flushing operation must be repeated every three weeks while the desalination system is not in use.

5) Stopping the watermaker: with automatic rinsing of the membranes

Membrane flushing must be carried out if the watermaker unit will remain unused for more than three weeks.

⑥ After operating the system, **do not switch it OFF**. Begin by turning the pressure regulator control knob counterclockwise to the minimum (–) position in order to initiate the automatic flushing sequence

⑦ The pressure indicated on the gauge will decrease; continue turning the knob until it reaches the minimum (–) position. The system will then start the flushing procedure. The green and yellow LEDs on the control panel will illuminate, indicating that the flushing cycle is in progress. **This process lasts approximately 30 seconds**.

⑧ Once the procedure is complete, the green and yellow LEDs will turn off, and only the blue LED on the switch will remain flashing. You may then switch off the desalination system by setting the switch to OFF.

Ensure that the flushing cycle is fully completed before switching off the system



6) Using the Micro Remote Control (optional)



After starting the watermaker for the first time from the main control panel, you can use the Micro Remote Control on Automatic or Navigator versions to stop, restart or flush it.

On other versions, you can use the Micro Remote Control to monitor the system status or stop the watermaker.

Starting the watermaker



Hold for 2 seconds

To start the watermaker from STANDBY, press the (ON/OFF) button and hold it for about 2 seconds.



The button's BLUE LED starts flashing and the buzzer confirms the operation with 2 beeps. The watermaker starts as soon as you release the button.

Monitoring production



The RED, YELLOW and GREEN LEDs show the same indications as those on the watermaker control panel. The YELLOW LED's flashing rate indicates the water pressure in the system: faster flashing means higher pressure.



Once the product water is of satisfactory quality, the GREEN LED lights up.

Note: Increase the water pressure in the system slowly to extend membrane life. If you intend to start the watermaker frequently using the Micro Remote Control, we strongly recommend a machine with automatic pressure regulation, such as the Automatic or Navigator series.

Indicator light key



On



Flashing



Off

Micro Remote Control — stopping and flushing

Stopping the watermaker



Hold for 2 seconds

To stop your watermaker normally:

Press the (ON/OFF) button and hold it for about 2 seconds.



As soon as you release the button, the watermaker stops and returns to STANDBY.

Stopping with automatic flushing

Note: All DESSALATOR watermakers have an automatic flushing function. Remote flushing must only be triggered on a watermaker equipped with automatic pressure regulation (Automatic or Navigator models).



Hold for 5 seconds

To stop your watermaker and finish with an automatic flushing cycle:

Press the (ON/OFF) button and hold it for about 5 seconds, until the YELLOW and GREEN LEDs light up and the buzzer sounds one long beep.



As soon as you release the button, the watermaker stops and the automatic flushing cycle starts before the system returns to STANDBY.



Indicator light key



On



Flashing



Off

Operation

Membranes are delicate components

Reverse osmosis membranes must be carefully maintained as they are the most sensitive parts of your system. Follow the instructions given to avoid damaging them and voiding the warranty. The nominal production capacity of the watermaker is given for a temperature of 25°C for seawater and depend on the salinity of the seawater in your navigation area. Each degree below this given temperature decreases the flow rate by 2.5 to 5%.

Extremes temperatures

The membranes should not be exposed to temperatures below **0°C**. Overpressure, caused by expansion resulting from freezing, can rupture the membranes and prevent the salt from being filtered out.

The membranes must not be exposed to temperatures above **60°C**, as high temperatures may also prevent salt from being removed.

Drying out of the membranes

After the first use, the membranes should be kept immersed in liquid, either in treated seawater, in a mix of fresh water and sterilizing solution or, temporarily, in fresh water (see Sterilization methods, **Appendix A4**).

Recommendations for use

The different quality and salinity level of seawater influence the yield of the membranes.

WARNING!



Do not use this system in areas where the water is muddy or polluted and at the mouth of rivers or brackish water. This will prevent clogging the prefilter and damaging the membranes.

Maintenance

WARNING!



In case of risk of frost, we recommend emptying the flowmeter located on the control panel, disconnect the output pipe (blue) and blow or inject air into this pipe while alternating pressing on the small button of the solenoid valve located at the back of the control panel. You should also protect your membranes against the cold using blankets or insulation.

1) Membranes maintenance

Over time, it is normal for the flow to drop by 10 to 15%.

If yield/output is no longer satisfactory, you should consider replacing the membranes.

The output volume of your watermaker is established within the first 24 to 48 hours of operation. The fresh water output depends on the salinity and temperature of the seawater, as well as on the working pressure of the membranes.

Rinsing the membranes can improve the yield/output.

2) Rinsing frequency of the membranes

It is therefore not necessary to rinse the membranes after each use. Rinsing them too often can lead to premature deterioration of the membranes.

There are two methods to flush the system: one manual and the other automatic.

Both methods use the water in the boat's tanks.

It is necessary to rinse the watermaker if it is not going to be used for several days.

➥**Reminder :** All flushing procedures should be done with the **motor/pump block off**. The biggest enemy of membranes is **pressurized fresh water**.

Manual Rinsing

There is a valve next to the prefilter. This valve is connected to the freshwater tank of the boat. When turned, it will automatically start the boat's freshwater system and send fresh water from the tank to the watermaker.

1. Do not put the watermaker on "ON"; leave it in its "OFF" position.
2. Turn the pressure regulator all the way in the counterclockwise direction.
3. Turn the fresh water inlet valve, located next to the prefilter, for 2 minutes. The boat pump will start and fresh water will flow into the watermaker.

Automatic Rinsing

See page 16 "*Stopping the watermaker: with automatic rinsing of the membranes*"

3) Sterilizing the membranes

When should the membranes be sterilized?

Under normal circumstances, a monthly and regular rinsing of the membranes is enough for their maintenance. If you do no use the watermaker for a while and cannot perform a monthly rinsing, membrane sterilization is necessary. The protective effect of sterilizing does not exceed 6 months. The sterilization should never be renewed more than twice a year but should include, between these two operations, a mandatory rinse with fresh water.

An excessive concentration of sterilizing solution can corrode the membrane heads. We recommend the sterilizing cartridge ST2 and our specified dose of sterilizing solution, adapted to your system. Failure to comply with these recommendations or use of another sterilizing solution void the warranty.

Membranes sterilizing procedure

1. Easy method **using** the ST2 sterilization cartridge (reusable):
   We have developed a sterilization cartridge that greatly facilitates handling. The instructions for this cartridge are given in **Appendix 4**.

2. Manual method **without** the ST2 sterilization cartridge:
   With the watermaker turned off, thoroughly rinse it for 10 minutes with fresh water using the 3-way valve on the prefilter. Pour the sterilizing product (whole bag) into a bucket containing 8 litres of water. Uncouple the seawater inlet pipe and immerse it in the bucket. Start the watermaker without increasing the pressure until the bucket is empty. Once the bucket is empty and the operation completed, reconnect the pipe.

3. Method using a garden sprayer:
   Pour the sterilizing product (whole bag) into a bucket containing 8 litres of fresh water and mix everything together. Fill the garden sprayer with this mixture and increase the pressure to 3 or 4 bar. Then inject the sterilizing solution at the inlet of the membranes (red mark side).

   ➥**Note**: Before using the watermaker again simply rinse it with fresh water for a few seconds, using the 3-way valve located on the pre-filter, in order to eliminate the sterilant.

4) High-pressure pump

The high-pressure pump is half filled with oil to the level indicated on the gauge. The oil used in the pump is a 15W40 or 20W40 multigrade oil. You not exceed the level (as shown on the gauge). The oil does not need to be change over time.

Spare Parts

DESSALATOR® devices, which have a high reliability and long lifetime, generally do not require costly servicing. An accident is always possible (operation with low water level, accidental overpressure, impact, etc.).

We keep the following spare and maintenance parts at your disposal:

- 5µm 10-inch filter
- Transmission belt
- Electronic card
- Membranes head
- Nozzle for high-pressure piping
- Flowmeter tube, sold by the meter

Accessories :

- Mini Remote Control
- Micro Remote Control
- Complete ST2 sterilizing cartridge
- Sterilizer in sachet
- Mineralizer cartridge
- Mineralizer in sachet
- Nipple for high pressure tube
- HP nozzle elbow

Appendix A1: How do watermakers work?

How does reverse osmosis work?

Pressurized seawater enters the membranes which, similarly to "molecular sieves", only let the fresh water molecules pass.

Most of the dissolved solid particles do not cross the membranes. These residues are evacuated with the discharge water.

Reverse osmosis extracts 99% of impurities.

The drinking water produced by your reverse osmosis system can be consumed. If stored in your tanks you can, if needed, treat this water with commercially available products. Make sure to follow the manufacturer's dosage instructions.

We sell a mineralizing cartridge if you plan to drink the produced fresh water long-term.

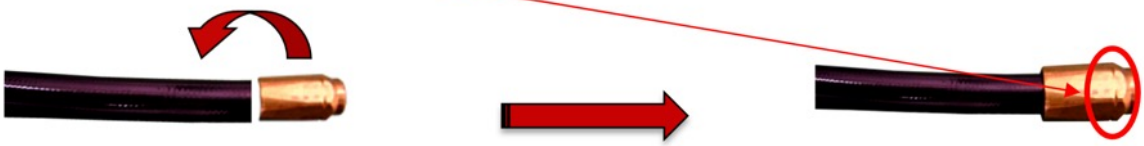
How does your watermaker work?

Seawater is draw in through the inlet valve of the thru-hull. It then passes through the 5-micron prefilter. The filtered water is then pressurized in the membrane tube by the high-pressure pump (operating pressure is in the green zone of the pressure gauge). The pressurized water passes through the orifices of the membrane surface, freed from the salt and bacteria, which are poured back into the sea along with the remainder of the solution used to self-clean the membranes. The now fresh water goes through a probe measuring the salt content: if the water is sufficiently desalinated, the 3-way valve is automatically switched to direct the fresh water to the tanks. On the other hand, if the salinity sensor registers a salt content that is too high (conductivity greater than 800 ppm), the valve will reject the output water at sea.

The amount of drinking water being produced is controlled by a flowmeter located on the control panel. The fresh water production capacity is given for a seawater temperature of 25°C. Yield is reduced by 2.5 to 5% per degree Celsius of temperature drop.

Appendix A2: Mounting of the DESSALATOR® high-pressure nozzles

1. Screw the brass fitting onto the high-pressure hose counter-clockwisela all the way to the vertical mark on the outside of the fitting.



2. Place the brass plug in the stainless steel nut and tighten it firmly:



3. Put a little grease on the tip of the stainless steel cone and screw it by placing it straight in the brass fitting. Stop as soon as the stainless steel thread has disappeared in the brass nozzle, i.e. about 7 mm of space between the nut and the brass fitting.



4. Unscrew the nut of the conical adapter. The nozzel is ready for the pipe from the pump to the membrane. Sheathing is with another pipe is a good idea to protect it against vibration.



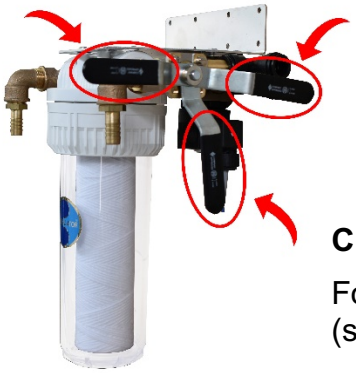
5. **IMPORTANT**: Make sure that the nozzle has not clogged the pipe :
   - Either by blowing into the pipe,
   - Or by inserting a screwdriver to check that the passage is free.

Do not forget to put Loctite or threadlock on the male and female cones when reassembling.

Appendix A3: Manual Rinsing Procedure

Seawater position:

For use in desalinization mode



Fresh water position:

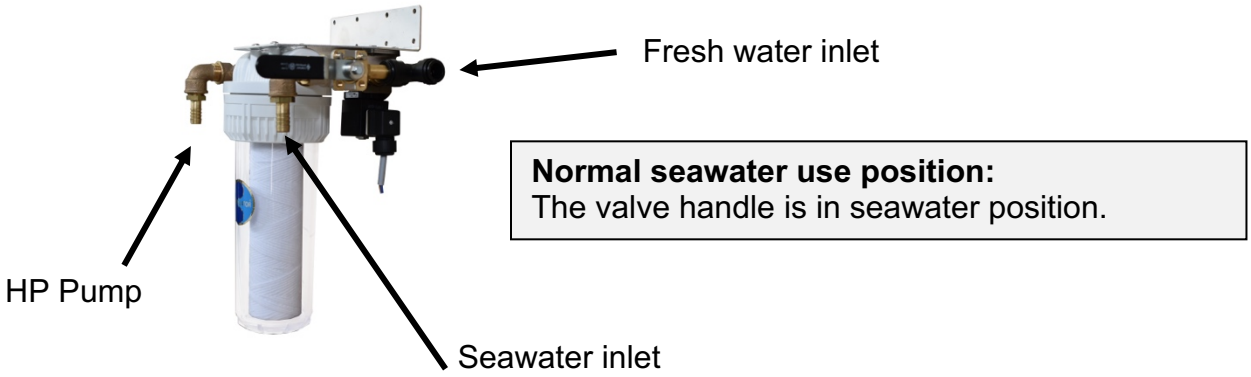
For manual rinsing or sterilization when needed

Closed position:

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

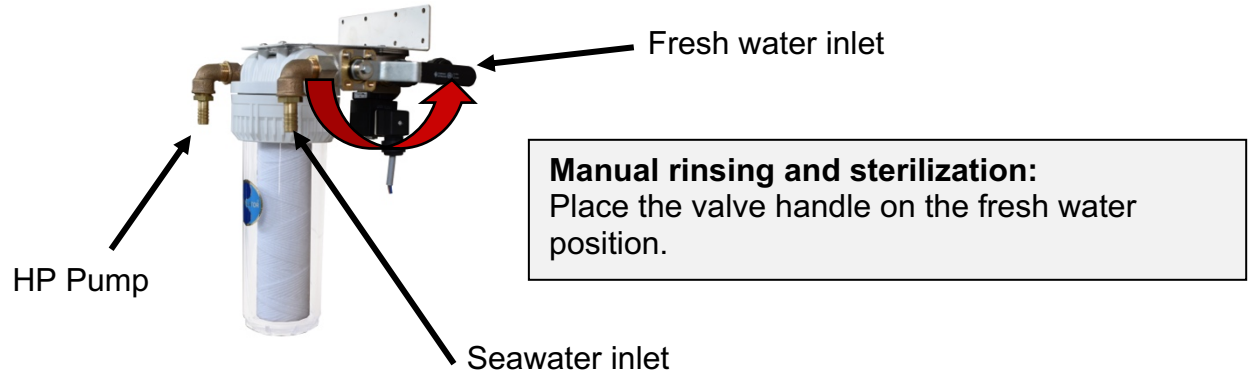
Your DESSALATOR® system comes equipped with an automatic rinsing feature, here is the procedure to follow if you choose to do manual rinsing:

Normal position



Normal seawater use position:
The valve handle is in seawater position.

Manual rinsing position

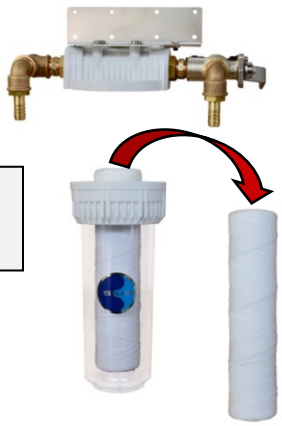


Manual rinsing and sterilization:
Place the valve handle on the fresh water position.

Appendix A4:
Instructions for the Sterilizing Cartridge

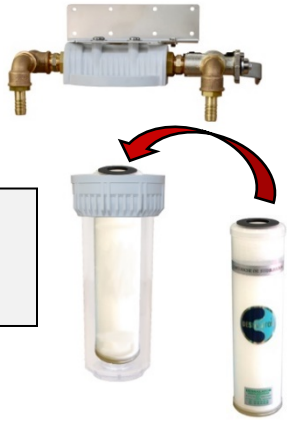
With the watermaker OFF:

- Close the seawater inlet valve.
- Open the sterilizing cartridge: **be careful not to lose the O-ring**.
- Remove the top screen.
- Place the foam at the bottom of the filter.
- Pour the sterilizing powder into the cartridge.
- Replace the top screen and close the cartridge.
- Check that the seal is correctly in place.
- Remove the 5-micron cartridge from the prefilter.



Remove the 5-micron cartridge from the prefilter

- Replace it with the sterilizing cartridge



Replace the 5-micron cartridge with the ST2 sterilizing cartridge

- Turn the rinsing valve to the fresh water position (see **Appendix A3**) so that the sterilizing powder mixes with the water, the valve must be closed before all of the powder disappears (there must be a little left inside the bowl).
- Please note that this procedure is very quick. The watermaker should not be turned on
- Duration of sterilization: 6 months maximum (to be repeated beyond that)

➥**Important**: Before the next start-up, rinse the system out using fresh water for 10 minutes. Remove the ST2 sterilizing cartridge and replace it with a 5-micron cartridge.

➥**Note : The ST2 cartridge can be reused**

Appendix A5: Troubleshooting

PROBLEMS	CAUSES	SOLUTIONS
Leak at the pressure regulator behind the control panel	Regulator packing gland loose	Tighten the packing gland with a 17 mm open-ended spanner.
Noisy HP pump	Restricted water supply or air intake. Incorrect pressure.	Check hose diameter, clamp tightness and filter cleanliness. Operate in the green zone.
Oil leak from HP pump	Worn seals on connecting rods	Replace the seals.
Insufficient water output	Water too cold. Dirty prefilter. Insufficient power supply. Voltage drop in the power cable.	Replace the prefilter. Recharge the batteries. Check the connections. Fit a cable with a larger cross-sectional area.
Water leaking below the high-pressure head	Worn seals	Replace the piston seals.
No pressure	Insufficient water	Open the seacock. Check that hoses are not kinked.

Appendix A6: Control panel and Micro Remote indicator guide

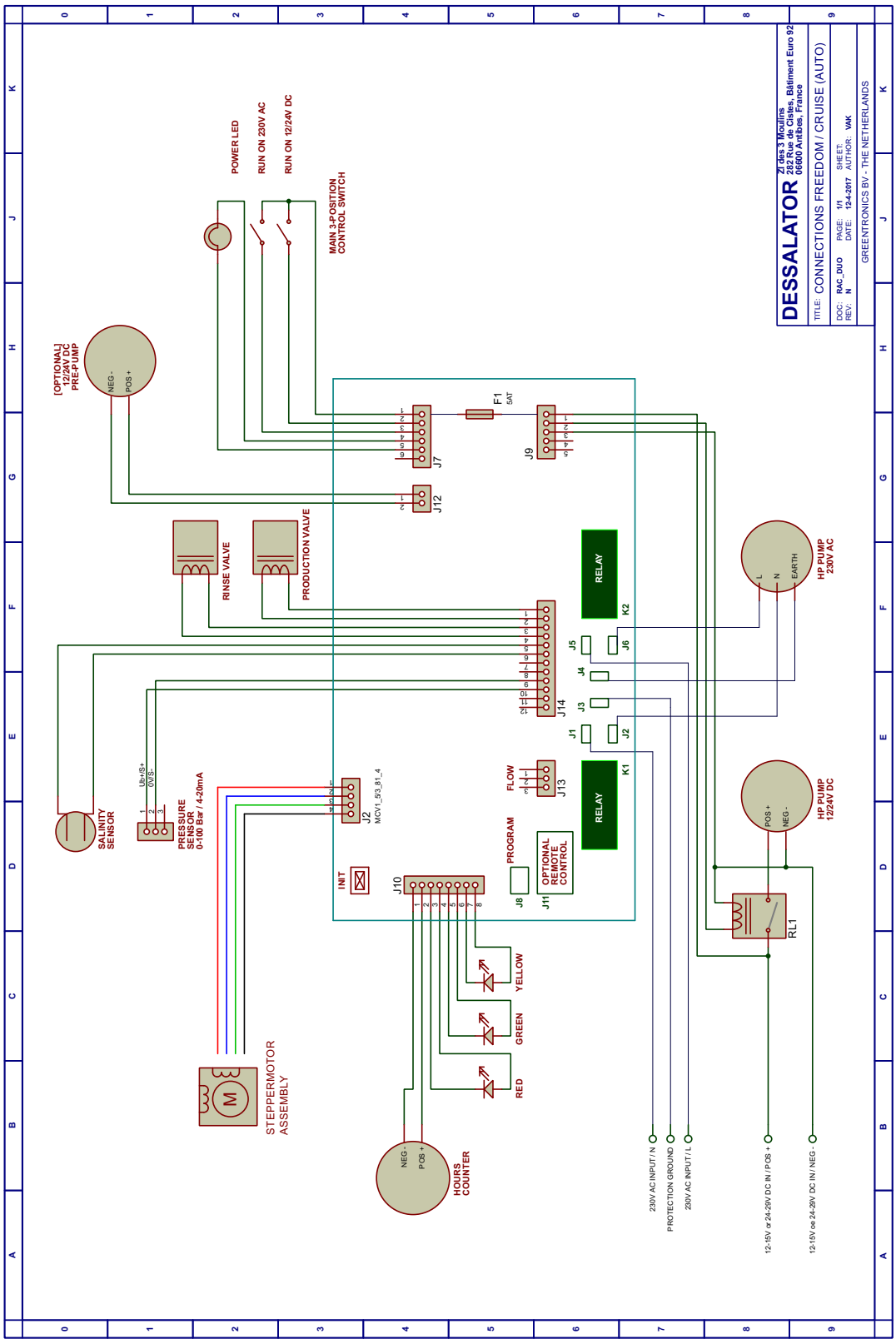
RED YELLOW GREEN	DESCRIPTION AND ACTION
OPERATION	
	**System test at startup** If these lights remain on, open the pressure regulator (-) to reduce the pressure.
	**Pumps running • Waiting for operating pressure** Slowly turn the pressure regulator clockwise (+) until the pressure gauge needle reaches the green zone.
	**Operating pressure OK • Waiting for good water quality** Please wait. The watermaker will automatically start producing water when the water quality is satisfactory.
	**Water production** Water quality is good. Drinking water is being produced.
	**Automatic flushing** Please wait. Flushing lasts 30 seconds.
WARNINGS AND ALARMS	
	**Insufficient pressure** The pressure is too low.
	**Alarm 1-1 • Low-pressure timeout** Did the pump start first? Check the seawater inlet valve and the prefilter. Restart and try again.
	**Alarm 1-2 • No power supply to the pressure sensor** If an alarm occurs after startup, the pressure sensor may be faulty or the system voltage may be too low.
	**Alarm 2-1 • Pressure too high** Switch off the watermaker, fully open the pressure regulator (-), then restart the watermaker.



KEY On Flashing Off

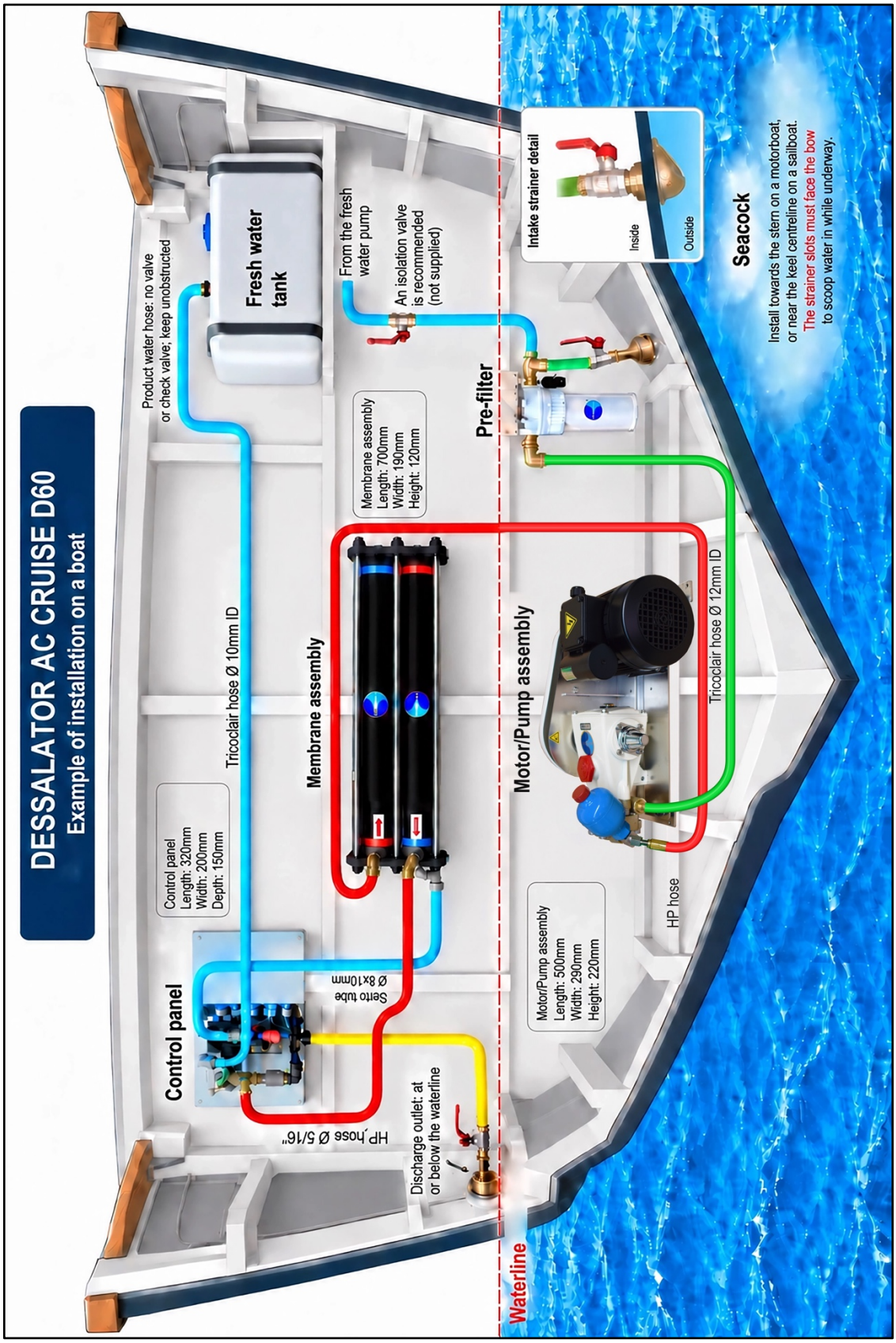
Light order: red • yellow • green

Appendix A7: Circuit diagram of the electronic board

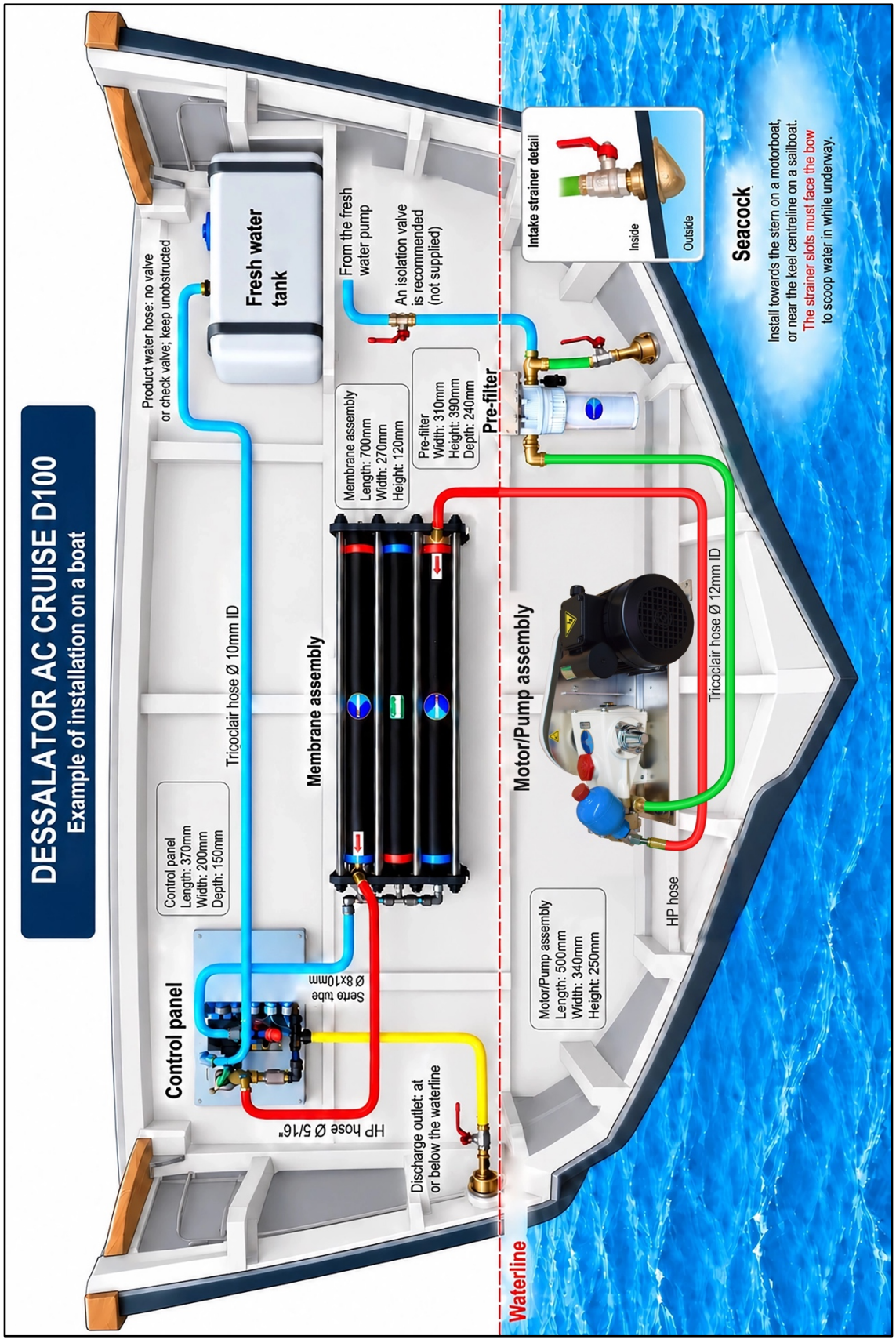


Appendix A8: Schematic drawing

AC CRUISE D60 :



AC CRUISE D100 :



DESSALATOR®
WATERMAKERS - DESSALINISATEURS

At your service.

AC CRUISE D60 & D100

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INSTALLATION AND OPERATING MANUAL

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