DESSALATOR®
Watermakers - dessalinisateurs

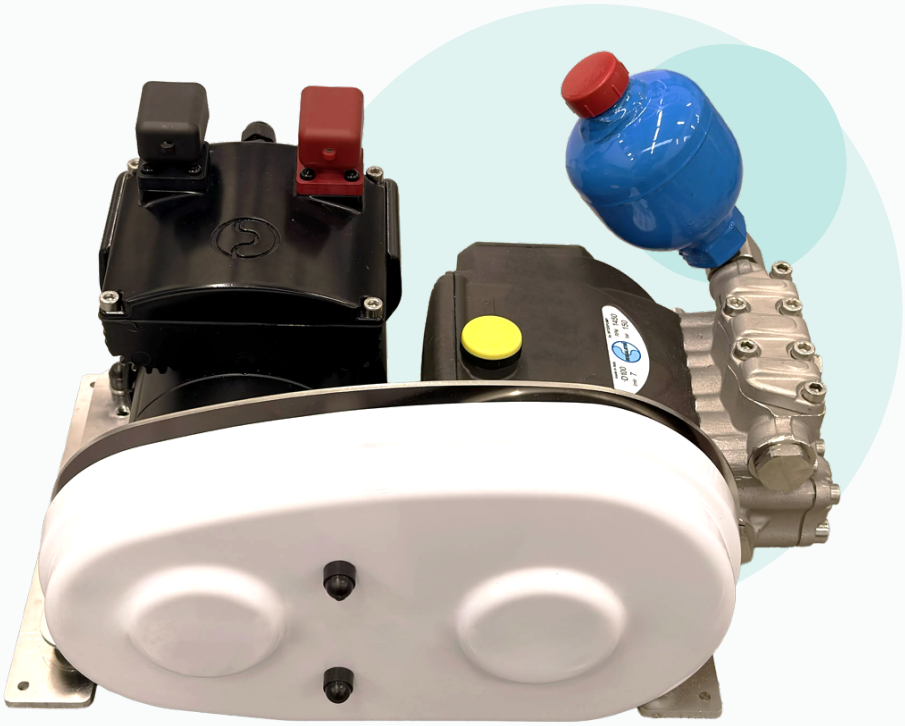
USER GUIDE

FREEDOM

D60 & D100

NAVIGATOR / AUTOMATIC PRESSURE CONTROL / DC

60 or 100 litres/hour



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Commissioning and operation

Procedures and guidance for operating your watermaker.

02 Before starting

03 Starting

04 Stop without rinsing

05 Stop with rinsing

06–07 Micro Remote and LEDs

08 Prefilter and manual rinse

01 COMMISSIONING

Before starting

01

Check that the valves are open

Carry out this check before starting the watermaker.

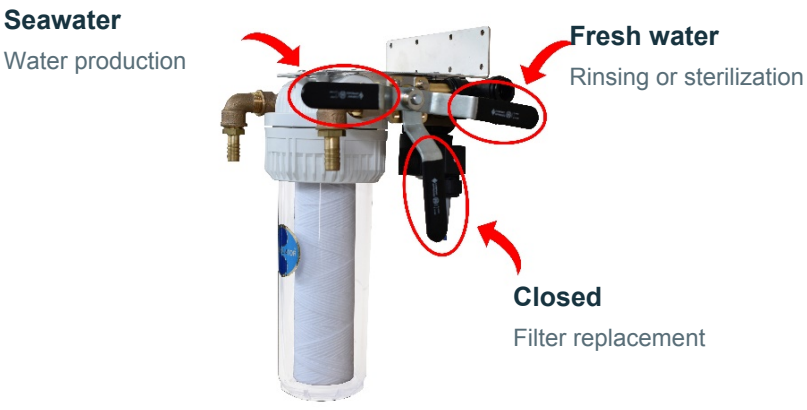
01 PRIME THE CIRCUIT IN EACH OF THESE CASES

- **Before the first use**
- **After replacing the filter**
- **After the boat has been hauled out**
- **After a long period of disuse**

Prime for 2 minutes with fresh water, watermaker stopped

With the watermaker stopped, operate the prefilter three-way valve to fill the circuit with fresh water for 2 minutes. Open the pressure regulator counterclockwise, stopping 1/4 turn before the left-hand stop.

Once the circuit is full, return the valve to the seawater position (see page 8).



02 ELECTRICAL SUPPLY

Take account of the battery capacity and the operating time.

Over 5 minutes: engine or battery charger running

When operating on 12 or 24 V for more than 5 minutes, you must run either the boat engine or the battery charger supplied by shore power or a generator.

02 PRODUCTION

Starting the watermaker

02

Automatic pressure regulation

The motorized regulator adjusts the pressure. Manual adjustment temporarily disables automatic mode; automatic operation resumes the next time the watermaker is used.

1 Select the power supply

Set the switch to ON.

2 Allow the pressure to increase automatically

The pressure regulator moves the gauge needle into the green zone.

This procedure takes about 3 minutes.

3 Check the quality of the produced water

After the water has been checked and found to be of good quality, the watermaker starts producing fresh water.

What affects fresh water output

Output depends on seawater temperature and salinity, as well as the quality of the voltage supplied to the motor.

About 3 minutes

03 STOPPING

Stopping without rinsing

03

If you use your watermaker regularly, you do not need to rinse the membranes.

1 **Set the switch to OFF**

The watermaker stops.

Selector to OFF

After more than 10 days: rinse before restarting

Rinse before the next start-up. Follow the manual rinse procedure on page 8.

For shutdown with rinsing, follow the procedure on page 5.

04 MEMBRANES

Stopping with rinsing

04

Rinse if the planned shutdown exceeds 10 days

Rinse the watermaker if it will not be used for more than 10 days.

1 **Keep the watermaker on until rinsing starts**

After production, turn the pressure regulator knob counterclockwise until automatic rinsing starts.

2 **Check that the green and yellow LEDs are on**

These LEDs on the control panel indicate that rinsing has started.

3 **Allow 30 seconds for rinsing**

The watermaker performs the rinse cycle automatically.

4 **Wait for the green and yellow LEDs to go out**

At the end of the cycle, only the blue switch LED remains flashing. If you have no Micro Remote, you can then set the switch to OFF.

After more than a month: rinse for 2 minutes

After more than a month of disuse, a 2-minute rinse is essential (see page 8). For extended storage, sterilize the membranes (6 months maximum) or rinse at least once a month.

05 OPTION

Using the Micro Remote

05

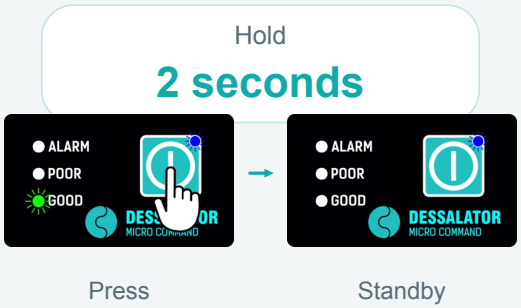
After the first start-up at the control panel, use the Micro Remote to monitor and control the system remotely.

Automatic pressure regulation

Pressure must increase gradually to protect the membranes. Remote starting and rinsing require automatic pressure regulation.

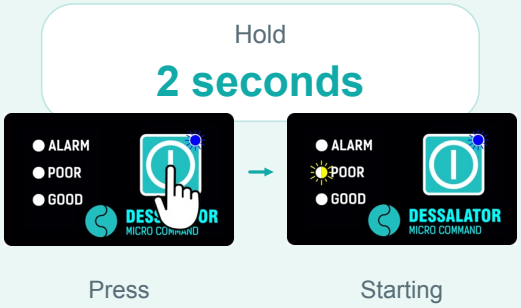
01 STOP WITHOUT RINSING

Hold the on/off button for about 2 seconds (2 beeps), then release: the watermaker stops and enters STANDBY.



02 RESTART FROM STANDBY

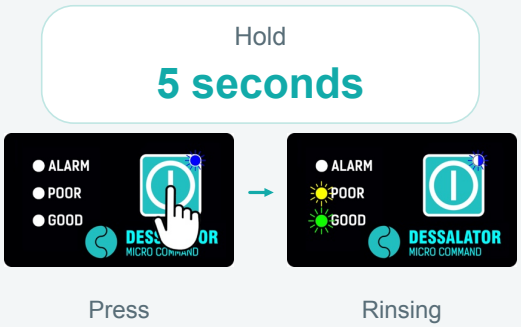
From STANDBY, hold the button for about 2 seconds. The blue LED flashes and 2 beeps sound. Release to start.



03 STOP WITH RINSING

Automatic pressure regulation required

Hold for about 5 seconds until the yellow and green LEDs light up and a long beep sounds. Release: the watermaker stops, rinses, then enters STANDBY.



06 MICRO REMOTE

Understanding the LEDs

06

The RED, YELLOW and GREEN LEDs show the same information as on the watermaker control panel.

Flashing yellow LED

The yellow LED flashing rate indicates the water pressure in the circuit.

The faster it flashes, the higher the pressure.

Green LED on

The water produced is of good quality.

READING THE ILLUSTRATION SYMBOLS

On

Flashing

Off

07 APPENDIX

Prefilter and manual rinsing

07

SELECTING THE PREFILTER VALVE POSITION

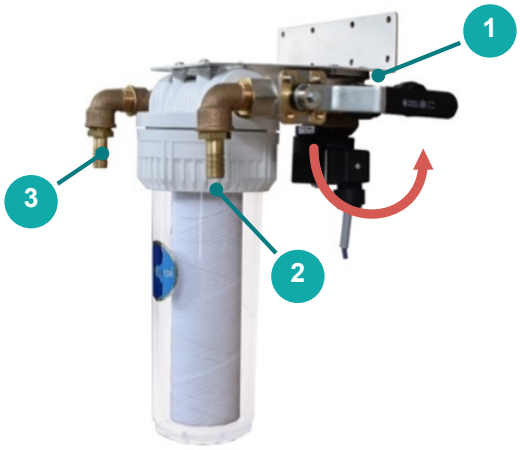
Seawater
Water production

Fresh water
Rinsing or sterilization

Closed
Filter replacement

RINSING MANUALLY WITH FRESH WATER

With the watermaker stopped, move the valve handle to the fresh water position for manual rinsing. Always return the handle to the seawater position before restarting.



1. **Fresh water inlet**
2. **Seawater inlet**
3. **To the HP pump**

Manual rinse and sterilization

Turn the handle to the fresh water position.

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