

Operator Manual

For the

Water purifier



Firmware version No.: X060522A



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2 SAFETY INFORMATION

Read the safety information before installing the water purifier

2.1 WARNING LABELS

Before reading the manual, please get familiarized with the following icons used in this manual.

4	Electric Shock
Â	Warnings
6	Specific Information without security link

2.2 SAFETY INSTRUCTIONS

To ensure the product SECURITY and RELIABILITY, all repairing must be realized with spare parts available with our after-sales service. If the power cable is damaged, it must be replaced.

^	Unplug the water purifier power plug. Don't pull on the wire.
4	Before all maintenance on the water purifier, turn off the power supply switch and
	unplug the power plug.
	Use exclusively tap water to supply the water purifier.
-	- MAXIMUM NETWORK PRESSURE = 6 BAR
	- Maximum supply water temperature = 38 °C.
/ • \	This water purifier needs a main tension 100-240V~ 1.2 A 50/60 Hz
	Don't connect too many devices on the same plug in order to not risk fire or
	electrical shock.
	The low voltage electrical installation must comply with local standards.

3 INTRODUCTION TO THE SYSTEM

3.1 INTRODUCTION

The water purifier system «O mini+» produces water of Class 2 as defined in ISO 3696 standard, which is indented to be used by clinical analyzers.

The principle of purification uses two technologies:

- the REVERSE OSMOSIS, which is currently the most effective membranous separation process,
- the demineralization by ion exchange resin.

These two associated technologies allow getting water with excellent quality regarding physical composition, chemical composition (mineral and organic) and micro-organic population.

3.2 TECHNICAL SPECIFICATIONS 🗐

Power supply voltage	100-240V~ 1.2A 50/60 Hz
Production flow at 25 ° C	15 liters / hour
Production flow at 10 ° C	9 liters / hour
Resin type	Mixbed ions exchange resins
Resin volume	1 liter (0.75 + 0.25)
Maximum supply water temperature	38 °C (100°F)
Maximum hardness without protection	4 mmol/L CaCO ₃
Admissible pH	3 to 11
Mini / maxi supply pressure	2 / 6 BAR
Dimensions ($I \times h \times w$)	42 X 39 X 43 cm
Indicative weight	13.5 kg

This system is recommended for daily consumption lower than 30 liters.

3.3 OVERVIEW OF THE SYSTEM (FRONT VIEW)



3.4 OVERVIEW OF THE SYSTEM (BACK VIEW)



3.5 GENERAL DESCRIPTION

The "O mini+" water purifier includes a set of prefiltration cartridges for filtering the inlet water: 5µm sediment filter + carbon block filter.

After this stage, the water is injected via a booster pump into one reverse osmosis membrane.

After the reverse osmosis membrane, 90% of the organic and inorganic compounds are already removed.

In order to remove most of all remaining minerals, the water goes through 2 successive ion exchange resin cartridges and then is filtered by a 1 μ m post-treatment filter.

The electromechanical assembly is managed by an electronic controller.

3.6 CONTROLLER DESCRIPTION

3.6.1 Main display

The conductivity of the produced water is displayed continuously on the main screen.



3.6.2 Menu display

The settings menu is displayed after pressing 2 seconds with a tool on the SET button.



Moving in the menu

3.6.3 Detailed information display

From the main menu, when pressing shortly on the '+' button, the values from various sensors are displayed momentarily.



This screen is displayed for 10 seconds.

3.6.4 Working phases



3.6.5 Settings menu

The settings menu is accessible by pressing with a tool on the SET button for 2 seconds.



The available sub-menus are:

- Calibration of the conductivity electrodes
- Telemetry management
- Screen contrast adjustment
- Tools reserved for service technicians

3.6.6 Screen contrast adjustment

The intensity of display is adjustable.

Press shortly on '+' or '-' to adjust. The rendering is immediate.

When adjusted, validate by pressing with a tool 2 seconds on the 'SET' button.



3.6.7 General comments on the calibration of the conductivity electrodes

The calibration process is not forced by the system. However it is possible to adjust the displayed value on the controller's screen if it is different from the value measured with an external calibrated conductivity meter.

For the calibration of the electrodes, it is necessary to use a precise external conductivity meter which must be calibrated (in option, conductivity meter reference 950026).



There is no necessity to calibrate after each change of membrane, filter, or resin cartridge

3.6.7.1 How to use the external calibrated conductivity meter

- 1. Let flowing the water to test 15 to 30 seconds.
- 2. Remove the conductivity meter protection cap.
- 3. Rinse the protection cap and the conductivity meter probe with the water to test.
- 4. Renew the operation 2 to 3 times.
- 5. Fill protection cap of the conductivity meter with the water to test then plunge the conductivity meter: read the measured value.
- 6. Renew the operation 2 to 3 times; the retained value will be the last measurement one.
- 7. Switch off the conductivity meter then place the protection cap.

3.6.7.2 Calibration menu access



3.6.7.3 Use of the adjustment screen

The calibration of the integrated conductivity electrodes is processed with the inner water. In parallel, the conductivity of this water has to be measured with an external conductivity meter which needs to be previously calibrated.



- Measure the conductivity with the external calibrated conductivity meter
- Press on '+' or '-' until displaying the same value on the controller's screen
 - Save the calibration point by pressing with a tool on the 'SET' button for 2 seconds

The 2 points of calibrations can not be defined at the same time. The second point of calibration can be useful after a significant increase of the conductivity. The conductivity of the second point must above the conductivity of the first point.

3.6.7.4 Calibration curve with one point

As the electrodes are not accessible by the user, they are able to measure only the conductivity of the water crossing the system.



The system uses by default its own calibration curve.

It is recommended to calibrate the 1st point of calibration when installing the system, or when replacing filters, the RO membrane, resin cartridge, électrodes, or the electronics controller (in all these cases, delete the 2nd point).

3.6.7.5 Calibration curve with 2 points

As the electrodes are not accessible by the user, they are able to measure only the conductivity of the water crossing the system.



- Points of calibration: where are the 2 grey vertical lines.
- The calibration curve goes from 0 to the 1st point of calibration. The slope is then adjusted.
- The calibration linear curve goes from the 1st point to the 2nd point of calibration. The slope is then adjusted.
- Above the 2nd point of calibration, the values are adjusted by a shift from the values measured by the electrode. The slope is the default one.

A 2nd point of calibration can not be used when the conductivity is too close to the conductivity of the 1st point, without a risk of miscalibration.

It is recommended to choose the 2nd point of calibration with a conductivity close to the maximum.

It is recommended to recalibrate the 2nd point of calibration when filters, the RO membrane or the resin is close to the saturation.

3.6.8 Calibration of the production conductivity electrode

The calibration of the production conductivity electrode is made by taking water directly from the output of the purified water. The points of calibration must have conductivity values strictly under 10μ S/cm.



This is the initial case, before any saving of calibration point.



3.6.8.2 To delete the 1st point of calibration

It is possible to come back to the default conductivity values by deleting the 1st point of calibration.



Delete the point of calibration by pressing with a tool 2 seconds on the 'SET' button

3.6.8.3 To define a 2nd point of calibration

When a 1st point of calibration is

already defined, it is possible to

define a 2nd point.



3.6.8.4 To delete the 2nd point of calibration

It is possible to come back to one only point of calibration by deleting the 2nd point of calibration.



Delete the point of calibration by pressing with a tool 2 seconds on the 'SET' button

- 3.6.9 Calibration of the membrane conductivity electrode
- 3.6.9.1 How to take water after the membrane
 - 1. Switch off the water purifier
 - 2. Close the valve on top of the pressurized water tank
 - 3. Open the valve « purified water output » during 30 seconds then close it again
 - 4. Disconnect the pressurized water tank and plunge its extremity in clean bowl
 - 5. Switch ON the water purifier
 - 6. Refer to the paragraph explaining how to use the external calibrated conductivity meter (paragraph <u>3.6.7.1</u>), using the water from the disconnected tubing
 - 7. Reconnect the tubing to the pressurized water tank
 - 8. Switch ON the water purifier

The points of calibration must have conductivity values strictly below 100µS/cm.

3.6.9.2 To define a 1st point of calibration

This is the initial case, before any saving of calibration point.



3.6.9.3 To delete the 1st point of calibration

It is possible to come back to the default conductivity values by deleting the 1st point of calibration.



Delete the point of calibration by pressing with a tool 2 seconds on the 'SET' button

3.6.9.4 To define a 2nd point of calibration

This is the initial case, before any saving of calibration point.



3.6.9.5 To delete the 2nd point of calibration

It is possible to come back to one only point of calibration by deleting the 2nd point of calibration.



Delete the point of calibration by pressing with a tool 2 seconds on the 'SET' button

3.6.10 Telemetry management

The telemetry feature allows to monitor and to record the measurements of conductivity, pressure, temperature, and status of the water purifier, on a PC connected by a USB cable.

When in the activation screen, to active/unactivate the telemetry function, press with a tool for 2 seconds on the 'SET' BUTTON.

When activated, the telemetry remains active even after restart of the water purifier.



The delay between 2 successive sending is 10 seconds.

The data are transmitted in one text line of ASCII characters, followed by the carriage and line feed characters (CR+LF) using the following CSV format:

* A;B;C;D;E;F;G

with

- A = PRODUCTION CONDUCTIVITY
- B=PRODUCTION TEMPERATURE
- C= MEMBRANE CONDUCTIVITY
- D=MEMBRANE TEMPERATURE
- E=INLET PRESSURE
- F= MEMBRANE OUTPUT PRESSURE
- G=ERROR CODE

As the USB connection emulates a serial port, a terminal emulator software as the open-source software « TERMITE» can be used to receive the data on the PC.

The copy of the data in a file with the extension « .CSV » allows to open it later with a spreadsheet with the data organized in columns.



4 INSTALLING THE WATER PURIFIER

4.1 INSTALLATIONS CONDITIONS

 $\stackrel{t}{\Rightarrow}$ Water inlet (2 to 6 bars) equipped with a turn hand valve and a male exit tap of 1/2" delivered with the packing list (male connector 1/4" quick fit / 1/2" NPTF or water inlet valve 1/2" male/female).

 $\stackrel{\text{t}}{\Rightarrow}$ Protected power supply (100-240 V ~ 50/60 Hz with GROUND). Connect the device to a power socket located in a dry area more than two meters away.

b Water drain with a siphon or the drain clamp supplied with the water purifier.

4.2 CONNECTIONS



4.3 INSTALLATION OF THE WATER PURIFIER MEMBRANE

- 1. Remove the membrane holder out of its two plastic stirrups. (Figure 1)
- Disconnect the water inlet pipe from the membrane holder by disconnecting the quick fit coupling. (Figure 2)
- 3. Unscrew (by turning to the right) the high streaked part ("big cap") of the membrane holder.
- 4. Once the membrane door is opened. Insert the new membrane (Figure 3), peripheral seal at the top, to the complete stop: the end of the collecting tube must be closed to the top of the membrane holder. (Figure 4)



Figure 1



Figure 2



Figure 3



Figure 4

- 5. Check that the O-ring is well-positioned at the bottom of the retaining wall of the membrane holder. (Figure4)
- 6. Unscrew (by turning to the right) the high streaked part ("big cap") of the membrane holder.
- 7. Reconnect the water inlet hose.
- 8. Clip the membrane on its stirrups.

5 WATER PURIFIER START-UP

- 1. Connect all the tubings to the water purifier.
- 2. Check all hydraulic connections.
- 3. Close the storage tank valve.
- 4. Open the water purifier exit hand valve.
- 5. Open the tap water supply valve.
- 6. Connect the power supply cable and switch ON the water purifier.
- 7. The control unit goes through the following phases:

	The water purifier washes the membrane
1.0 ^{US/CM} 120 FLUSH	The conductivity may be different from 1.0
	The water purifier rejects the stagnant water
1.0 ^{US/CM} 59 PURGE	The conductivity may be different from 1.0
	The pump is turning, and the water purifier is
US/CM	producing purified water.
1.0 PROD	The conductivity may be different from 1.0

- 8. Leave producing 5 liters of water.
- The displayed production conductivity shall be between 0 and 0.1 μS/cm. close the outlet purified water valve.
- 10. Open the valve of the pressurized water tank and wait until it is full: the pump must stop and the controller must display again "READY".
- 11. The water purifier is ready to use.



An error message may appear on the screen when switching on the device, as long as the produced water does not come out of the tap. After a few seconds the error message will disapped, and the conductivity value will appeared on the screnn.

6 USER MAINTENANCE

6.1 MAINTENANCE CALENDAR

In order to maintain an optimal functioning of the water purifier, it is necessary to check regularly the water purifier and to perform the first level maintenance.

These actions must be executed by the user. The following table lists the actions and their frequency.

Frequency	Operation
EVERY DAY	Check that the status « READY » is displayed
EVERY DAY	Check the displayed value of the production conductivity (after
	running about 1 liter of production water). See paragraph <u>6.5.5</u>
	when the production conductivity exceeds 1.0 µS/cm
EVERY 3 MONTHES	Check the displayed conductivity value of the water after the
	membrane (after running about 1 liter of production water).
AT LEAST EVERY 6 MONTHES	Replace the pre- and post- treatment cartridges. See paragraphs
depending of conductivity values	<u>6.5.3</u> , <u>6.5.4</u> , <u>6.5.6</u>
OCCASIONALLY	Replace the membrane and the restrictor. See paragraphs <u>6.5.7</u> ,
	<u>6.5.8</u>

6.2 System errors

When there is a malfunction, the water purifier stops, the 'EC'LED blinks in red color and the controller displays the potential causes of error with a code.



Call the service.

6.3 INTEGRATED CONDUCTIVITY ELECTRODE ERROR

When there is an issue with the integrated conductivity electrodes, the water purifier continues to operate, but does not report any more the conductivity measure by the faulty electrode. On the screen « DETAILS », accessible by pressing shortly on '+' from the main screen, the error code is displayed.



Call the service.

6.4 CONSUMABLES

6.4.1 Filter kit « O mini+ » (ref. 950039)

The O mini+ Filters kit contains the following consumables:

	The 5 μm sediments cartridge (10") +1 seal
Pre-treatment	The active carbon block cartridge (10") + 1 seal
Post-treatment	The 1 µm post-treatment cartridge (10")



The 2 **pre-treatment** filters must be replaced when a plugging (significant drop of the purified water production flow) and/or the 5μ m sediment filter seems dirty.

The 2 pre-treatment cartridges average lifetime is from 2 to 6 months following the tap water quality (Material Suspended rate measurable by the turbidity) and the water purifier running time.

The **post-treatment** cartridge must be replaced at the same time than the pre-treatment cartridges.



Post-treatment filter

ï

6.4.2 «O mini+» MEMBRANE KIT (ref. 950023)



The reverse osmosis membrane and the flow restrictor must be replaced when the flow of purified water outlet is significantly low despite of a recent replacement of pre-treatment filters or/and an important increase in the frequency of the ions exchangers resins bottle replacement.



The average lifetime of a reverse osmosis membrane is from 1 to 3 years, depending on the tap water quality, the water purifier running time and the preventive maintenance

6.4.3 « O classic/O mini+ RESIN KIT » (réf. 959030)

The 2 resin cartridges must be changed when the purified water conductivity increases.





6.5 MAINTENANCE PROCEDURES

6.5.1 Flow measurement procedure

6.5.1.1 General points

The flow measurement is interesting to check the filters and reverse osmosis membrane plugging state. The osmosis membrane flow is function of the supply water temperature.

We generally allow a flow drop of 3 % per Celsius degree in a range from 10 to 25 °C.

This flow measurement must be compared to the water purifier theoretical nominal value with a fixed temperature, which is 25 °C:

Note: this theoretical flow rate represents the production at a "tank outlet" pressure of zero bar; it decreases according to the increase in the pressure "Outlet tank".



Variation débit de production théorique / température de l'eau <u>d'alimentation</u>

6.5.1.2 Equipment

- 1. A graduated test tube of 500 mL.
- 2. A chronometer.

6.5.1.3 Operating method

- 1. Close the storage water hand valve.
- 2. Open the water purifier exit hand valve and let flowing 30 seconds to get a stabilized flow.
- 3. Trigger the chronometer as soon as the test tube is filling. Make a measurement on 1 or 2 minutes.
- 4. Convert the result into liters/hour. Compare this measurement to the theoretical value.

6.5.2 Understanding conductivity values

6.5.2.1 General information

The global quantity of dissolved solids in water can be measured by the CONDUCTIVITY (expressed in microSiemens per centimeter (μ S / cm).



6.5.2.2 Production conductivity « output of water purifier »

6.5.2.3 Conductivity of « after membrane»

It is possible to check the conductivity after the membrane on the « DETAILS » screen.



Is the conductivity « after membrane » above 25 $\mu S/cm$ after running about 1 liter of production water?



NO

, THEN change:

- the membrane (see paragraph 6.5.7)
- the flow restrictor (see paragraph <u>6.5.8</u>)
- \circ check the production conductivity (see paragraph <u>3.6.9.1</u>)

, THEN check the production conductivity (see paragraph <u>3.6.9.1</u>)

6.5.3 Change of SEDIMENT FILTER 5 μm

- 1. Close the tap water hand valve.
- 2. Close the storage tank hand valve.
- 3. Open the water purifier exit hand valve to reduce the water pressure inside the water purifier; on the controller screen is displayed «NO FEED». Keep the water purifier exit hand valve open.
- 4. Turn off the water purifier power supply (power switch on position « 0 »), then unplug the power plug.
- 5. Remove the two transparent covers.
- 6. Using the big key (supplied with water purifier) <u>carefully</u> unscrew (turn to the left) the transparent filter holder (the one on the right); *WARNING: the filter is filled with water, a mop is recommended!*
- 7. Remove the filter cartridge. Introduce the new 5µm sediment filter cartridge (*included in kit ref.* 950039)
- 8. Check that the O-ring is properly positioned in the filter holder groove, then re-screw it. A « good tightening by hand » is enough.
- 9. Dry the floor at the bottom of the water purifier.
- 10. Open the tap water hand valve.
- 11. Re-plug the power plug then start up the water purifier. On the controller screen is displayed «PURGE»: the water purifier starts a rinsing cycle of the osmosis membrane. The rinsing is ended when the controller screen displays «PROD»; the water purifier is on production.
- 12. Open the storage tank hand valve.
- 13. Let filling all filters holder. After some time, the water must flow at the water purifier outlet: let flowing 3 to 4 litres of water.
- 14. Close the water purifier outlet hand valve. Reinstall the transparent covers. The water purifier is ready to use.



6.5.4 Change of ACTIVE CARBON BLOCK FILTER

- 1. Close the tap water hand valve.
- 2. Close the storage tank hand valve.
- 3. Open the water purifier exit hand valve to reduce the water pressure inside the water purifier; on the controller screen is displayed «NO FEED». Keep the water purifier exit hand valve open.
- 4. Turn off the water purifier power supply (power switch on position « 0 »), then unplug the power plug.
- 5. Remove the two transparent covers.
- 6. Using the big key (supplied with water purifier) <u>carefully</u> unscrew (turn to the left) the white filter holder (the middle one)
- 7. Remove the filter cartridge. Introduce the new active carbon block filter cartridge (*included in kit ref. 950039*)
- 8. Check that the O-ring is properly positioned in the filter holder groove, then re-screw this one. A « good tightening by hand » is enough.
- 9. Dry the floor at the bottom of the water purifier.
- 10. Open the tap water hand valve.
- 11. Re-plug the power plug then start up the water purifier. On the controller screen is displayed «PURGE»: the water purifier starts a rinsing cycle of the osmosis membrane. The rinsing is ended when the controller screen displays «PROD»; the water purifier is on production.
- 12. Open the storage tank hand valve.
- 13. Let filling all filters holder. After some time, the water must flow at the water purifier outlet: let flowing 3 to 4 litres of water.
- 14. Close the water purifier outlet hand valve. Reinstall the transparent covers. The water purifier is ready to use.



6.5.5 Change of the 2 RESIN CARTRIDGES

- 1. Close the tap water hand valve.
- 2. Close the storage tank hand valve.
- 3. Open the water purifier exit hand valve to reduce the water pressure inside the water purifier; on the controller screen is displayed «NO FEED». Keep the water purifier exit hand valve open.
- 4. Turn off the water purifier power supply (power switch on position « 0 »), then unplug the power plug.
- 5. Remove the two transparent covers.
- 6. Using the big key (supplied with water purifier) <u>carefully</u> unscrew (turn to the left) the white filter holder (the left in front); *WARNING: the filter is filled with water, a mop is recommended!*



0.75L resin cartridge housing

TAKE CARE TO THE DIRECTION !



- 7. Remove the filter cartridge. Notice the orientation of the used cartridge. Introduce the new 0.75L resin cartridge (*included in kit ref. 959030*)
- 8. Check that the O-ring is properly positioned in the filter holder groove, then re-screw this one. A « good tightening by hand » is enough.



9. For changing the 0.25L in-line resin cartridge, move out the cartridge from the 2 stirrups and disconnect the 2 connectors.



Move out the 0.25L resin cartridge from its 2 stirrups and then disconnect the 2 connectors

- 10. Connect the new cartridge (*included in kit ref. 959030*) and fix it to two plastic stirrups.
- 11. Dry the floor at the bottom of the water purifier.
- 12. Open the tap water hand valve.
- 13. Re-plug the power plug then start up the water purifier. On the controller screen is displayed «PURGE»: the water purifier starts a rinsing cycle of the osmosis membrane. The rinsing is ended when the controller screen displays «PROD»; the water purifier is on production.
- 14. Open the storage tank hand valve.
- 15. Let filling all filters holder. After some time, the water must flow at the water purifier outlet: let flowing 3 to 4 litres of water.
- 16. Close the water purifier outlet hand valve. Reinstall the transparent covers. The water purifier is ready to use.

6.5.6 Change of POST TREATMENT CARTRIDGE

- 1. Close the tap water hand valve.
- 2. Close the storage tank hand valve.
- 3. Open the water purifier exit hand valve to reduce the water pressure inside the water purifier; on the controller screen is displayed «NO FEED». Keep the water purifier exit hand valve open.
- 4. Turn off the water purifier power supply (power switch on position « 0 »), then unplug the power plug.
- 5. Remove the two transparent covers.
- 6. Remove the post-treatment filter (in-line white filter) out of its two plastic stirrups.
- 7. Disconnect the 2 connectors.
- 8. Remember the sense of flow of the old filter. Remove it. Connect the new one (*included in kit ref. 950039*) and fix it to two plastic stirrups.
- 9. Dry the floor at the bottom of the water purifier.
- 10. Open the tap water hand valve.
- 11. Re-plug the power plug then start up the water purifier. On the controller screen is displayed «PURGE»: the water purifier starts a rinsing cycle of the osmosis membrane. The rinsing is ended when the controller screen displays «PROD»; the water purifier is on production.
- 12. Open the storage tank hand valve.
- 13. Let filling all filters holder. After some time, the water must flow at the water purifier outlet: let flowing 3 to 4 litres of water.
- 14. Close the water purifier outlet hand valve. Reinstall the transparent covers. The water purifier is ready to use.





6.5.7 Change of the REVERSE OSMOSIS MEMBRANE

- 1. Close the tap water hand valve.
- 2. Close the storage tank hand valve.
- 3. Open the water purifier exit hand valve to reduce the water pressure inside the water purifier; on the controller screen is displayed «NO FEED». Keep the water purifier exit hand valve open.
- 4. Turn off the water purifier power supply (power switch on position « 0 »), then unplug the power plug.
- 5. Remove the two transparent covers.
- 6. See paragraph 4.3 above
- 7. Dry the floor at the bottom of the water purifier.
- 8. Open the tap water hand valve.
- 9. Re-plug the power plug then start up the water purifier. On the controller screen is displayed «PURGE»: the water purifier starts a rinsing cycle of the osmosis membrane. The rinsing is ended when the controller screen displays «PROD»; the water purifier is on production.
- 10. Open the storage tank hand valve.
- 11. Let filling all filters holder. After some time, the water must flow at the water purifier outlet: let flowing 3 to 4 litres of water.
- 12. Close the water purifier outlet hand valve. Reinstall the transparent covers. The water purifier is ready to use.

6.5.8 Change of FLOW RESTRICTOR

- 1. Close the tap water hand valve.
- 2. Close the storage tank hand valve.
- 3. Open the water purifier exit hand valve to reduce the water pressure inside the water purifier; on the controller screen is displayed «NO FEED». Keep the water purifier exit hand valve open.
- 4. Turn off the water purifier power supply (power switch on position « 0 »), then unplug the power plug.
- 5. Remove the two transparent covers.
- 6. Disconnect the pipe carrying the flow restrictive.
- 7. Remove the flow restrictive out of the pipe and replace it by the new.
- 8. Re-connect the restrictive out.
- 9. Replace it by the new.
- 10. Dry the floor at the bottom of the water purifier.
- 11. Open the tap water hand valve.
- 12. Re-plug the power plug then start up the water purifier. On the controller screen is displayed «PURGE»: the water purifier starts a rinsing cycle of the osmosis membrane. The rinsing is ended when the controller screen displays «PROD»; the water purifier is on production.
- 13. Open the storage tank hand valve.
- 14. Let filling all filters holder. After some time, the water must flow at the water purifier outlet: let flowing 3 to 4 litres of water.
- 15. Close the water purifier outlet hand valve. Reinstall the transparent covers. The water purifier is ready to use.







7 PACKING LIST

Picture	Item	picture	Item
	water purifier "O mini+" Reference 400951200		12 LITERS PRESSURIZED TANK Reference 400950228
	RO MEMBRANE 75 GPD Reference 400950023		SPANER FOR 10" FILTER HOLDER Reference 400950098
\bigcirc	POLYETHYLENE TUBE 1/4" – 10 Meters Reference 400950030		DRAIN CLAMP Reference 400951013
	WATER INLET VALVE 1/2" (male/female) Reference 400951014	0	WRENCH FOR MEMBRANE Reference 400951113
	ELECTRIC ADAPTATOR Reference 400951110		HAND VALVE 1/4" Reference 400950330 Quantity: 2
520	TEE UNION 1/4" Reference 400950091		Female adapter BSPP1/2 tube OD1/4 Reference: 400140008
1	MALE CONNECTOR 1/4" quick fit / 1/2" NPTF Reference 400950084 Quantity: 2	0	TUBE ELBOW UNION 1/4" Reference 400950089 Quantity: 4

Non contractual images

8 SERVICE

The information in this chapter are reserved exclusively to service technicians.

8.1 'SERVICE' MENU

The 'SERVICE' menu, reserved to the service technicians, allows operations with risks of degradation and malfunction of the water purifier:

- Change of delays: flush duration; purge duration; time between 2 automatic flushes
- Firmware update
- Option to set the low-pressure threshold to launch the "prod" mode
- Switch ON demonstration mode (screens displayed without checking sensors)
- Display firmware serial number



8.1.1 Timings change

These operations are reserved to service technicians.





Press on '+' or '-' to adjust the value. Validate by pressing with a tool for 2 seconds on the 'SET' button.

8.1.1.2 Change purge duration



Press on '+' or '-' to adjust the value. Validate by pressing with a tool for 2 seconds on the 'SET' button.

8.1.1.3 Change delay between automatic flushes



Press on '+' or '-' to adjust the value. Validate by pressing with a tool for 2 seconds on the 'SET' button.

8.1.1.4 Low-pressure threshold setting (threshold to re-launch production after a stop due to a high pressure value on prod valve)



These operations are reserved to service technicians.

Press on '+' or '-' to adjust the value. Validate by pressing with a tool for 2 seconds on the 'SET' button.

8.1.2 Firmware update



The update of the firmware needs the connection by a USB cable to a PC equipped with the software STM32CubeProgrammer or an ANDROID smartphone equipped with the software ZFLASHERSTM32. Both software are downloadable from the internet.

How to program the OMINI in DFU with STM32CubeProgrammer:

1) Open STM32CubeProgrammer and change the protocol from ST-LINK to USB on the right of the screen:



2) load the Omini.bin file into cube programmer:



3) Connect the OMINI+ to the PC via USB and put it into "Firmware Update Mode" (See previous user manual section)

4) Refresh the target list until the target appears in the port list and its serial number is readable



5) Click on Connect. The light indicator should now be green, and the device memory is read and shown on the screen

USB	Ŧ	Connect							Connected
U	SB configuratio	n					USB	•	Disconnect
Port	USB1	- Ø	1					USB configu	ration
Serial number		204C36702031					Port	USB1	- O
		Device memory OMIN	Lbin +						_
		Address 0x08000000	* Size 0x400	Data width 32-bit	 Find Data 0x 			Read	
		Address 0x08000000	• Size 0x400	Data width 32-bit	 Find Data 0x 8 	c		Read	-
		Address 0x00000000 Address 0x08000000	 Size 0x400 0 20004000 	Data width 32-bit 4 08005389	 Find Data 0x 8 08005110 	C 0800511F	.ø. 'sqq	Read	-
		Address 0x0000000 Address 0x08000000 0x08000010	Size 0x400 0 20004000 08005121	Data width 32-bit 4 08005389 08005123	 Find Data 0x 8 0800511D 08005125 	c 0800511F 00000000	.0. 15QQ 1Q#Q%Q	Read	- î
		Address 0x08000000 Address 0x08000000 0x08000000 0x08000010 0x08000020	Size 0x400 0 20004000 08005121 0000000	Data width 32-bit 4 08005369 08005123 0000000	 Find Data 0x 8 0800511D 08005125 00000000 	c 0800511F 00000000 08005127	.0. 'SQQ 1Q#Q30	Read	
		Address 0x08000000 Address 0x08000000 0x08000010 0x08000020 0x08000020	Size 0x400 0 2000400 0 000000 08005121 0000000 08005129	Data width 32-bit 4 08005369 08005123 0000000 0000000	 Find Data 0x 8 08005110 08005125 00000000 08005128 	C 0800511F 00000000 08005127 0800512D	.0. 'SQQ 1Q4Q3Q)Q+QQ	Read	Î
		Address 0x08000000 0x08000000 0x08000010 0x08000020 0x08000030 0x08000030	Size 0x400 0 20004000 0 0 20005121 0	Data width 32-bit 4 08005389 08005123 00000000 00000000 00000000 08005409 08005409	 Find Data 0x 8 08005120 08005125 00000000 08005128 08005409 	C 0800511F 00000000 08005127 0800512D 08005409	.0. 'SQQ IQ0Q)Q	Read ASCII	
		Address 0x0800000 Address 0x08000000 0x08000010 0x08000020 0x08000030 0x08000030 0x08000050	Size 0x400 0 20004000 0 00005121 0000000 08005129 08005409 08005409	Data width 32-bit 4 08005389 08005123 00000000 00000000 00000000 08005409 08005409	Find Data 0x 8 08005110 08005125 00000000 08005128 08005409 08005409	C 0800511F 00000000 08005127 08005120 080051409 08005409	.0. 'SQQ IQ9Q	Red	Î
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		Address 0x0100000 0x0800000 0x08000010 0x08000010 0x08000030 0x08000030 0x08000050 0x08000050 0x08000060 0x08000060	¥ Size 0x400 20004000 0000000 00000000 00000000 05005129 08005409 08005409 08005409 08005409 08005409	Data width 32-bit 4 08005389 08005123 0000000 08005409 08005409 08005409 08005409 08005409 08005409 08005409 08005409	 Find Data 0x 8 08005110 08005125 00000000 08005128 08005409 08005409 08005409 08005409 	c 0800511F 00000000 08005127 08005120 08005409 08005409 08005409	.0. '5QQ QeQ3Q 'Q)QeQQ .TTTT .TTTT .TTT	Read	
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6) Click on the "OMINI.bin" tab on the up of the screen, then on "Download"



Device m	emory OMINI	l.bin ×	+									
Address	0x0	•	Size	0xC540	Data width	32-bit	▼ Find	Data	0x			Download 🔍
	Adduces			•				•		<i>c</i>	1501	

7) You should see a pop-up window confirming the file download completion, and a green message in the log screen.

Log		
1027:26 : erasing sector 0007 @: 0x08003800 done 1027:26 : erasing sector 0008 @: 0x08004000 done 1027:26 : erasing sector 0019 @: 0x08004000 done 1027:26 : erasing sector 0011 @: 0x08005000 done 1027:26 : erasing sector 0011 @: 0x08005000 done 1027:26 : erasing sector 0013 @: 0x08006000 done 1027:26 : erasing sector 0013 @: 0x08006800 done 1027:26 : erasing sector 0013 @: 0x08006800 done 1027:26 : erasing sector 0014 @: 0x08007000 done 1027:26 : erasing sector 0015 @: 0x08007800 done		~
1027:26 : erasing sector 0016 @: 0x0800800 done 1027:26 : erasing sector 0017 @: 0x08008800 done 1027:26 : erasing sector 0018 @: 0x08009800 done 1027:26 : erasing sector 0019 @: 0x08009800 done 1027:26 : erasing sector 0020 @: 0x08000400 done 1027:26 : erasing sector 0022 @: 0x08000400 done 1027:26 : erasing sector 0022 @: 0x08000400 done 1027:26 : erasing sector 0022 @: 0x08000400 done	File download complete	ОК
1027/26 : erasing sector 0024 @: 0.08000c000 done 1027/28 : File download complete 1027/28 : File download complete 1027/28 : Time erapsed during download operation: 00:	00:02:104	

8) The OMINI+ has now been updated. You can exit CubeProgrammer, disconnect the OMINI+ from USB and restart the unit.

How to program the OMAXI in DFU on ANDROID:

1. Install ZFlasherSTM32 and launch it



- 2. Connect the osmoser via USB (you might need an OTG adaptor) and switch it to firmware update mode. If the board doesn't appear on the information section, hit the refresh button at the top right of the screen.
- 3. Hit the three dots button and select the firmware file to load (it should be OMINI.dfu)
- 4. Check that the action mode is set to "Write"
- 5. Click on "Go !" at the bottom of the screen and wait for the transfer to be complete
- 6. You can now restart the osmoser and unplug the USB cable



8.1.3 **Demonstration mode**

The demonstration mode allows to enter all the screens without being blocked due to the sensors.

The demonstration mode stops when restarting the water purifier.



8.1.4 Firmware version display

In « About » section, we can find the firmware version, the hardware reference(VNQ7004 ou BV2HD), and the clock frequency value of the embedded quartz on the board.



8.2 MANAGEMENT OF THE ERRORS REPORTED BY THE CONTROLLER

8.2.1 Functional errors

In case of malfunction, the controller displays certain causes of error, and one error code.



The error code after # contains 3 characters :



Each character is coded in hexadecimal format: it must be converted in binary format to decode the meaning of each bit.

Неха	0	1	2	3	4	5	6	7	8	9	A	В	С	D	E	F
Binary	0000	0001	0010	0011	0100	0101	0110	0111	1000	1001	1010	1011	1100	1101	1110	1111

8.2.1.1 Short circuit detection

Binary code	CAUSE	SUGGESTED ACTION			
XXX1	Purge valve in short circuit	Change the purge valve			
XX1X	Production valve in short circuit	Change the production valve			
X1XX	Pump and inlet valve in short circuit	Change the pump and the inlet valve			
1XXX	Flush valve in short circuit	Change the flush valve			

8.2.1.2 Cut detection

Binary code	CAUSE	SUGGESTED ACTION		
XXX1	Purge valve disconnected or damaged	Check the purge valve		
XX1X	Production valve disconnected or damaged	Check the production valve		
X1XX	Pump and inlet valve disconnected or damaged	Check the pump and the inlet valve		
1XXX	Flush valve disconnected or damaged	Check the flush valve		

8.2.1.3 Pressure error

Binary code	CAUSE	SUGGESTED ACTION
XXX1	"After membrane" pressure sensor reports too low values	Check the pressure sensor after the membrane
XX1X	"After membrane" pressure sensor reports too high values	Check the pressure sensor after the membrane
X1XX	Inlet pressure sensor reports too low values	Check the inlet water Check the inlet pressure sensor
1XXX	Inlet pressure sensor reports too high values	Check the inlet pressure sensor

8.2.2 Errors with integrated conductivty electrodes

In case of problem with one integrated conductivity electrode, the controller continues to run, does not display the corresponding conductivity, but instead one error code on the « DETAILS » screen.



Error code	CAUSE	SUGGESTED ACTION
1	The temperature sensor is out of order	Change the conductivity electrode (951107)
2	The conductivity sensor is out of order	Change the conductivity electrode (951107)
3	The 2 preceeding errors occur	Change the conductivity electrode (951107)

8.3 OTHER PROBLEMS

PROBLEMS	POTENTIAL CAUSES	SUGGESTED ACTION		
		 Connect and switch ON the water purifier 		
 The screen is totally black 	 Power supply is defective 	 Power load is too high (pump, valves or power supply unit in short circuit) 		
Screen ONImpossible to produce	 The water inlet is blocked or its pressure is too low 	- Check the water supply		
water - Pump stopped - « NO FEED » is displayed	 The water inlet tubing is bent of obstructed 	- Check the water inlet tubing		
- Screen ON	 Clogging of pre-treatment cartridge 	 Replace the post and pre- treatment filters 		
 Low flow of production water 	 Low flow of water supply 	 Increase the flow of water supply 		
 The pump is functional 	 Colmatage de la membrane d'osmose inverse 	 Change the membrane 		
6	 Pressurized water tank valve closed 	 Open the valve of the water tank 		
 Screen ON Lack of pressure Low flow of production 	 Quantity of purified water requested above the capacity the system 	 Wait until the pressurized water tank is full 		
water	 Lack of air pressure in the pressurized water tank 	 Readjust the air pressure in the pressurized water tank to 0,7 Bar 		

8.4 SPARE PARTS





USB Communication board ref. 400950558

Membrane pressure sensor ref. 400951204



8.5 FLOW PATH DIAGRAM 🗐 MINI⁺





MANUFACTURER

DiaSys Technologies 1682, rue de la Valsière Cap Gamma – Parc Euromédecine II 34790 GRABELS Tél. : 33 (0)4 11 95 03 40 Fax : 33 (0)4 11 95 03 50 Internet : http://www.diasys-diagnostics.com Email : info@diasys-technologies.com