

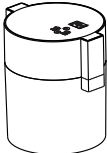
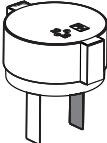

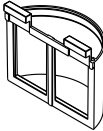

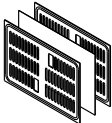


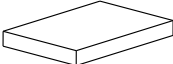
**WATER IONISER  
AQUATOR MINI**

**Mod. CLASSIC, SILVER**

**CE**

**USER'S MANUAL**

## 1. COMPONENTS

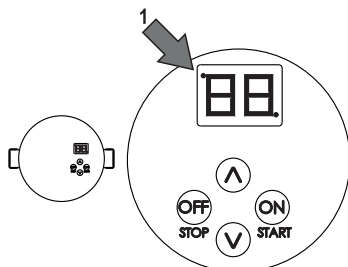
 <p>General view of the device</p>	 <p>Cover</p>	 <p>Main receptacle</p>
 <p>Inner receptacle</p>	 <p>Grid holder</p>	 <p>Membrane partition with grids</p>
 <p>Plate</p>	 <p>Silver electrode (Silver models)</p>	 <p>Case with membrane partitions (2 pcs)</p>

## 2. CONTROL PANEL

**Display:**

1 - Minute point: when minute point is displayed, time is measured in minutes.

Displayed information: time, errors, end of operation and operating mode.

**Control buttons:**

- turns off the appliance or stops the process.



- changes time value.



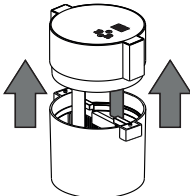
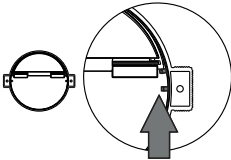
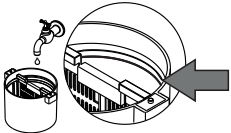
- changes time value.

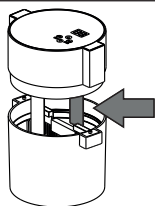


- turns on the appliance or starts the ionization or silvering of water.

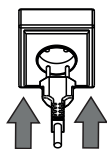
## 3. USING THE DEVICE

## 3.1. PRODUCING IONISED WATER

 <p>1. Open the cover.</p>	 <p>2. Adjust the inner receptacle to the slide inside the main receptacle.</p>	 <p>3. First fill the inner receptacle and then fill the main receptacle with water. Make sure that water level is at the bottom water level mark.</p>
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4. Place the cover on the main receptacle.  
Depending on the desired pH level of water, dark or light electrode can be placed in the inner receptacle. See Table 1.  
**Note:** during the ionisation process, acidic water will always be produced by dark electrode and alkaline water by light electrode.



5. Plug the device in.

PH



6. Use the **ON START** button to turn on the device. Letters **PH** will be displayed on the display.

02



7. Use **▲ ▼** buttons to select the desired ionisation time.

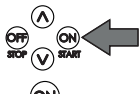
**Note:** pour out the produced water when ionising it for the first time.

Table 1

Ionisation time (min)	Dark electrode in the inner receptacle				Light electrode in the inner receptacle			
	Alkaline water in the main receptacle		Acidic water in the inner receptacle		Alkaline water in the inner receptacle		Acidic water in the main receptacle	
	ORP	pH	ORP	pH	ORP	pH	ORP	pH
2	-130	8,2	420	6,8	-190	8,6	280	6,8
3	-140	8,6	470	6,7	-210	8,8	400	6,7
4	-160	9,2	560	6,6	-250	9,2	480	6,6
5	-190	9,4	580	6,5	-310	9,6	540	6,5
10	-310	9,6	640	6	-440	10	600	6,1
15	-430	9,8	700	3,9	-520	10,4	660	5,7
20	-560	9,9	760	3,4	-600	10,8	700	5,3
25	-710	10	850	3,2	-670	11,1	740	4,9
30	-760	10,1	1000	3	-720	11,2	780	4,5

*This data is based on research results of the CENTER FOR PHYSICAL SCIENCES AND TECHNOLOGY with tap water: temperature of 18°C, conductivity of 550 uS/cm and pH level of 7.4. pH and ORP values of the processed water may vary from the data presented above due to physical and chemical properties of the water used.*

02

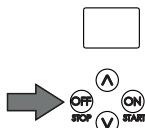


8. Use the **ON START** button to start the ionisation process.

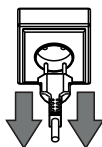
00



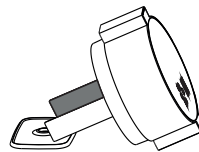
9. Once the ionisation process is completed, you will hear an audible signal and **00** will be displayed.  
**Note:** instructions for turning silent mode on/off are given in Section 8.



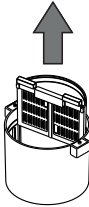
10. Use the **OFF STOP** button to turn the device off.



11. Unplug the device.

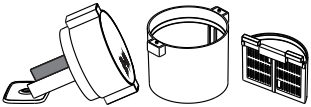


12. Remove the cover and place it on the plate as shown.



13. First, remove water from the inner receptacle. Then, from the main receptacle. Pour the produced water into any available container.

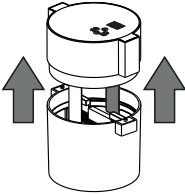
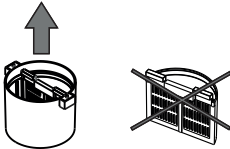
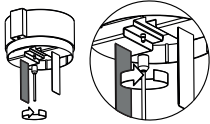
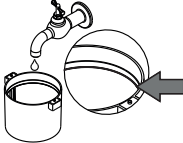
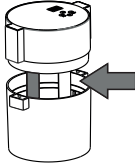
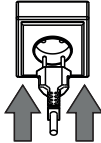
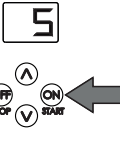

**Note:** during the ionisation process, acidic water will always be produced by dark electrode and alkaline water by light electrode. See Table 1.



14. Leave the ioniser parts to dry.

**Note:** do not use the device until it is completely dry.

### 3.2. PRODUCING SILVERED WATER (Silver model)

 <p>1. Open the cover.</p>	 <p>2. Remove the inner receptacle. The inner receptacle is not used in the silvering process.</p>	 <p>3. Plug the silver electrode into the silver electrode socket at the underside of the cover (between the dark and the light electrode).</p>
 <p>4. Fill the main receptacle with water. The water level should be at the bottom water level mark.</p>	 <p>5. Place the cover on the main receptacle.</p>	 <p>6. Plug the device in.</p>
 <p>7. Use the <b>ON START</b> button to turn on the device. Letter <b>5</b> will be displayed.</p>	 <p>8. Use the <b>▲</b> <b>▼</b> buttons to select the desired duration of the silvering process. See Table 2. The first minute will be displayed in seconds; once the minute point appears, time will be measured in minutes.</p>	

**Note:** pour out the produced water when silvering it for the first time.

**Table 2**

Duration of device operation	Using tap water <sup>1</sup> . Concentration of silver in the water (mg/l) will be up to:	Using purified water <sup>2</sup> . Concentration of silver in the water (mg/l) will be up to:
10 s	0,01	-
20 s	0,03	0,05
30 s	0,05	0,06
40 s	0,19	0,08
1 min.	0,33	0,11
5 min.	1,50	0,35
10 min.	3,10	0,65
20 min.	6,00	1,25
40 min.	11,0	2,45

Table 2 (continued)

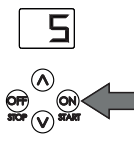
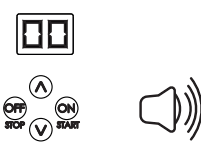

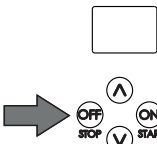
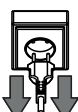
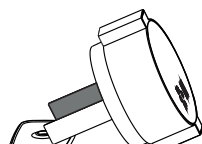

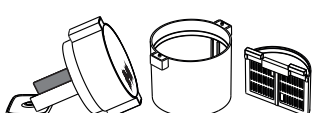
Duration of device operation	Using tap water <sup>1</sup> . Concentration of silver in the water (mg/l) will be up to:	Using purified water <sup>2</sup> . Concentration of silver in the water (mg/l) will be up to:
60 min.	17,5	3,65
80 min.	19,7	4,85
100 min.	26,6	6,05
120 min.	35,0	8,05

This data is based on research results of the CENTER FOR PHYSICAL SCIENCES AND TECHNOLOGY with:

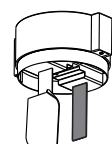
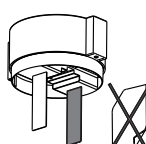

1 Tap water: temperature of 18°C and conductivity of 550 uS/cm.

2 Purified water with the conductivity of 0.062 uS/cm is used, if the silver water is used for drinking.

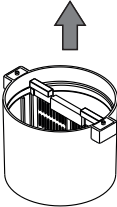
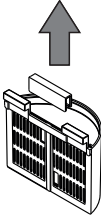
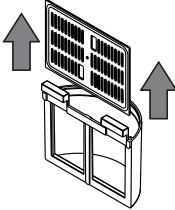
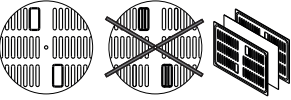
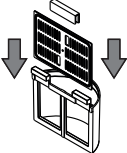
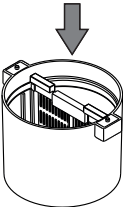
**Note:** according to the recommendations of the World Health Organization (WHO/SDE/WSH/03.04/14) silver concentrations in drinking water should not exceed 0.1 mg/l.

 <p>9. Use the <b>ON START</b> button to start the silvering process.</p>	 <p>10. Once the silvering process is completed, you will hear an audible signal and  will be displayed. <b>Note:</b> instructions for turning silent mode on/off are given in Section 8.</p>	
 <p>11. Use the <b>OFF STOP</b> button to turn the device off.</p>	 <p>12. Unplug the device.</p>	 <p>13. Remove the cover and place it on the plate as shown.</p>
 <p>14. Pour the silver water from the main receptacle into non-transparent container.</p>	 <p>15. Leave the ioniser parts to dry. <b>Note:</b> do not use the device until it is completely dry.</p>	

#### 4. MAINTENANCE OF ELECTRODES


<p><b>1. Maintenance of the light electrode</b></p> <p>After every use, clean the light electrode with a soft cloth dampened with vinegar (9%), wash with water and leave to dry.</p> 	<p><b>2. Maintenance of the dark electrode</b></p> <p>Do not clean the dark electrode. Avoid mechanical damages.</p> 	<p><b>3. Maintenance of the silver electrode</b></p> <p>After every use, clean the silver electrode with soft cloth, wash with water and leave to dry.</p> 
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## 5. MAINTENANCE OF THE MEMBRANE PARTITION

 <p>1. Take the inner receptacle from the main receptacle and place it on a table.</p>	 <p>2. Remove the grid holder.</p>	 <p>3. Hold the grids with both hands and remove them from the inner receptacle.</p>
 <p>4. Remove the used membrane partition. Insert a new membrane partition between the grids. Close the grids aligning the grid holes.</p>	 <p>5. Hold the grids pressed together using both hands and insert them into the inner receptacle. Push the grids all the way to the bottom. Attach the grid holder.</p>	 <p>6. Place the inner receptacle back to the main receptacle.</p>

**Note:** membrane partition of the device has to be replaced at least once a month or when damaged mechanically. It is recommended to replace membrane partition when the inner receptacle and grids are dry.

## 6. TECHNICAL REQUIREMENTS

Parameters	Values
Capacity, l	1,5
Power supply voltage, V	230
AC frequency, Hz	50
Fuses, VP, A	5
Maximum power consumption:	
- Ionisation of water, W	100
- Silvering of water, W	2
Total weight (max), kg	0.98 kg
Operating conditions:	
- Ambient temperature	From 5 to 40°C
- Relative air humidity	Up to 80% at 25°C
- Electrical conductivity of the water used	350–900 uS/cm
- Initial temperature of the water used	Up to 25°C
- Waterproof rating	IP44
- Do not dispose of with common household waste	

## 7. SAFETY REQUIREMENTS

### 7.1. Do not:

- 7.1.1. Remove the cover from the bottom receptacle when the device is plugged in;
- 7.1.2. Keep the device near an open flame or equipment that emits sparks;
- 7.1.3. Disassemble the device;

- 7.1.4. Leave the cover with the electrodes facing up;
  - 7.1.5. Wash the cover with water;
  - 7.1.6. Wash the device or its parts in a dishwasher;
  - 7.1.7. Use the device, if there are cracks or other mechanical damages;
  - 7.1.8. Use membrane partitions other than those supplied by the manufacturer of the device.
- 7.2. Keep the device away from children and do not leave it unattended.

### 8. SILENT MODE

- 8.1. Press both (Ⓐ) (Ⓥ) buttons at the same time and hold for 3 seconds to turn all audible signals on/off.

### 9. OPERATING MODES AND ERRORS

Parameters:	Description
PH	The inner receptacle is inserted. The device is ready to be used for ionisation of water.
S	The inner receptacle is removed. The device is ready to be used for silvering of water.
E1	The silver electrode has not been detected in the silvering mode. Attach the silver electrode.
E2	The cover has not been closed properly. Close the cover properly.
E3	There is too much water in the device. The water level should be at the bottom mark.

### 10. WARRANTY

- 10.1. Warranty period: 24 months from the date of sale, if users comply with the requirements of this instruction manual.
- 10.2. If your device requires repair during the warranty period, deliver it to the store it was purchased from or to the manufacturer.
- 10.3. The warranty shall not apply if the device was damaged mechanically, the user attempted to disassemble, repair it or used it in a way that does not comply with the requirements of this instruction manual.
- 10.4. The manufacturer guarantees proper functioning of the device, if it has been purchased from an official representative of the manufacturer.

### WARRANTY'S INFORMATION

<b>Sales date:</b>	..... / ..... / ..... (        year        /        month        /        day        )
<b>Stamp</b>	.....  .....
<b>Signature</b>	.....  .....