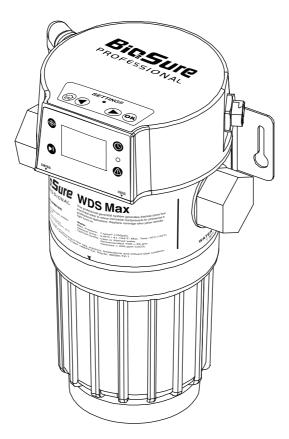


# WATER DISINFECTION SYSTEM

WDS Max | Model EOS7178-PQX



## **INSTALLATION & OPERATION MANUAL**

BIOTEK ENVIRONMENTAL SCIENCE LTD. www.besgroups.com

# PREFACE

Thank you for choosing BioSure Professional equipment. This manual contains basic installation, operation and maintenance instructions for BioSure Professional WDS Max, Model EOS7178-PQX.

BioSure Professional is a division of Biotek Environmental Science Ltd. ("BES Group"). BES Group is a global leading electrolytic technology developer and product manufacturer with pioneering ozone application knowledge and currently holds many exclusive patents for its electrolytic ozone generators and products worldwide.

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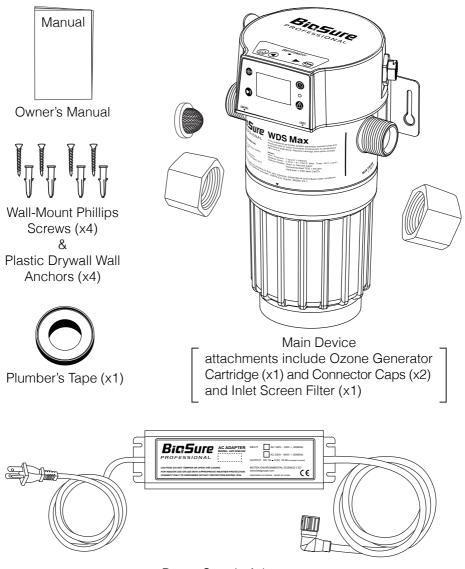
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# **PACKAGING CONTENTS**



Power Supply Adaptor

# **IMPORTANT SAFETY INFORMATION**

This manual contains basic installation, operation and maintenance instructions for BioSure Professional WDS Max, model EOS7178-PQX. For additional guidance, consult BES Group BioSure Professional Customer Service or your local authorized dealer.

**Attention Installer:** This manual contains important information about the installation, operation and safe usage of this product. This information should be given to the owner and/or operator of this equipment after installation.

**Attention User:** This manual contains important information that will help you in operating and maintaining this unit. Please save these instructions for future reference.

In order to prevent accidents or injuries to the installer, user, other people, and damage to property, please follow these safety instructions below :

#### **Explanation of Safety and Notice Symbols**

# 

WARNING indicates a hazardous situation which, if not avoided, **COULD** result in death or serious injury.



CAUTION indicates a hazardous situation which, if not avoided, **<u>COULD</u>** result in injury or property damage.

NOTICE

NOTICE is used to address practice that is required and must be followed.

\_ \_ \_ \_ .

## READ AND SAVE THESE INSTRUCTIONS

#### **Electrical Safety and Basic Safeguards**

- All service work must be performed by a qualified and authorized technician. NEVER attempt to disassemble, repair, or remodel the unit yourself. Doing so will void your warranty and can lead to fire or electric shock. If the product malfunctions or has been damaged in any manner, unplug the unit and contact the BioSure Professional service department or its authorized local service agent or dealer to arrange service or repair.
- Do NOT damage the Power Supply and Power Plug Cord. A damaged Power Supply or Power Plug Cord can cause fire or electric shock.
  - Never stretch, bend, pull, twist, fold, tie or attempt to modify the power cord or power plug.
  - When unplugging, pull by the molded part of power plug.

- Do NOT use or operate the unit with a damaged Power Supply or Power Plug. If the Power Supply or Power Plug Cord is damaged, it must be replaced by the manufacturer, authorized service agent, dealer, or similarly qualified person in order to avoid hazard. Component must be replaced using appropriate cord or assembly made available by the manufacturer or authorized service agent or dealer.
- Do NOT use in a manner that exceeds the rating of the power outlet or connected equipment. Plugging too many devices into the same outlet may cause the electrical outlet to overheat and result in a fire.
- Do NOT use a power supply voltage other than being specified on the product and the power supply. Use of any other power supply voltage may cause a fire or electric shock.
- To prevent accidental shock, we recommend this product always be used on a GFCI (Ground Fault Circuit Interrupter) outlet.

## **WARNING**

- Do NOT plug or unplug the Power Supply or Power Plug if your hands are wet. Doing so can cause electric shock or injury.
- Do NOT use the product if the power plug is loosely inserted into the electrical outlet. A loosely inserted power plug may cause a fire, electric shock or short circuit. Before using, make sure the Power Plug are inserted into the electrical outlet completely and securely.
- If the blades or surface of the power plug become soiled, wipe them clean before using. A dirty power plug may cause a fire.
- Keep the product and power cord away from heated or hot surfaces including space heaters, stoves, and similar electrical appliances.
- Do NOT put the machine in water or spray water onto it. Otherwise it may damage the unit or cause electric shock.
- To safeguard against fire, electric shock and possible injury risks, keep the power cord, power plug and the product away from water or other liquids.
- Stop using the product immediately if you notice any of the following symptoms indicating abnormality or malfunction:
  - The Power Supply or Power Plug Cord is damaged.
  - The Power Supply or Power Plug Cord becomes very hot.
  - The Body of product is abnormally hot or deformed.
  - Smoke coming from the product or there is burning smell.
  - Some part of the product is cracked, loose, or unstable.

• If any of the above issues occur, unplug the product immediately and return to authorized agent or dealer for service and repair. Continued use of the product may cause a fire, electric shock, or injury.

## 

- All permanent electrical connections should be made by a qualified electrician. Follow all applicable electrical codes.
- All plumbing or connections should be completely set up before plugging power to power on. Ensure the water output is properly connected to a correctly determined corresponding position.
- To maintain cosmetic integrity, protect this unit from direct prolonged sunlight exposure.
- For your safety, DO NOT operate the device with any panels or covers removed.
- The system should be sized appropriately for its intended use by a qualified professional familiar with the application.
- Ensure power and water supply meet requirements as indicated in the product specifications. Failure to install, operate and maintain this device as instructed could void warranty and result in injury or product damage.

### NOTICE

- A short Power Cord is provided for your safety. To reduce risks from entanglement or tripping, using longer Power Cord is not recommended. Extension cord should only be used if care is exercised.
- In cases If extension cord is used:
  - The marked electrical rating of the extension cord should be at least as high as the electrical rating of the product.
  - The extension cord should have a ground-type 3-pronged plug.
  - The extension cord should not drape over the countertop or tabletop where it can cause tripping over the cord.

#### **Specific Safety Information**

For your own personal safety and to prevent accidental damage to the product, please ensure that you read and understand this Manual.

• ALWAYS ensure all electrical circuits are disconnected before performing service, maintenance, or installation work.

- ALWAYS ensure all factory installed parts and components are re-installed properly and are in good condition after performing service, maintenance, or installation work.
- NEVER use inappropriate tools, processes, or procedures. Damage to components of device can occur.
- NEVER discard any loose parts received with device. They may be required for proper and safe installation and operation.
- Keep away from any open fire ( >100cm)
- Never attempt any servicing while unit is wet. Be sure to turn power OFF and disconnect from power source before any service work is performed. Failure to do so could result in serious injury or death.
- Ensure power and water supply meet requirements as indicated in the product specifications. Failure to install, operate and maintain this device as instructed could void warranty and result in injury or product damage.

# 1.1 PRODUCT DESCRIPTION

BioSure Professional WDS Max, model EOS7178-PQX is an automatic germicidal system designed to reduce microbial contaminants for water purification applications. These can include post-filtration water and waterlines sanitation treatment, which removes or reduces unwanted microbial contaminants in filtered water and biofilm in waterlines, or alternatively providing ozonated sanitizing water for sanitation use, depending on the way of installation and configuration. The system applies a revolutionary advanced electrolytic ozone technology, which features on-demand contribution of reliable sanitizing benefits of dissolved ozone in effective and safe manners in water dispensing and treatment applications.

#### Head Part Name Item 1 Water Inlet (1" NPT) 2 Water Outlet (1" NPT) 3 Cell Cartridge Power Socket (for cell cartridge 3 PROFESSIONA connection) Main Power Socket 4 (for power supply SETTING 5 connection) 5 Control Kevs Panel

# 1.2 KEY COMPONENTS

| Overall | Item | Part Name                  |
|---------|------|----------------------------|
|         | 1    | Display Panel              |
|         | 2    | Replaceable cell cartridge |
|         | 3    | Mounting Bracket           |
|         | 4    | Cell Cartridge Power Plug  |
|         | 5    | Placard                    |
|         | 6    | External Control Input     |
|         | 7    | Operational Status Output  |

# 1.3 SPECIFICATIONS

| Model            |                  | EOS7178-PQX   |  |  |
|------------------|------------------|---|--|--|
| OZONE PRODUCTION |                  | 600 mg/hr (±10%) at 60 ppm, 20°C  |  |  |
|                  | Quality          | Clean or filtered water.<br>(Recommendation: filtered to 1µm,TDS > 60 ppm,<br>Hardness < 250 ppm as CaCO <sub>3</sub> ) |  |  |
| WATER<br>SUPPLY  | Flow             | Min. 100 LPH (0.44 GPM)<br>Max. 4000 LPH (17.6 GPM)   |  |  |
| SUPPLI           | Pressure         | Min. 0.5 kg/cm² (8 psi)<br>Max. 7.0 kg/cm² (100 psi)  |  |  |
|                  | Optimal<br>Temp. | 5°C - 40°C / 41°F - 104°F<br>Max.Temp.: 50°C (122°F)  |  |  |
| ELECTRICAL       | Power            | Adaptor Input : AC 100-120V or 220-240V, 50/60Hz<br>Adaptor Output : 🗛 DC 5-16V, 10.5A                                  |  |  |
|                  | Rate             | 170W  |  |  |
|                  | Temp.            | > 0°C - 40°C (> 32°F - 104°F)   |  |  |
|                  | Humidity         | Up to 90% RH (not condensed)  |  |  |
| DIMENSIONS       | WxDxH            | 160 x 141.5 x 273.2 mm (6.3" x 5.6" x 10.8")  |  |  |
| WEIGHT           | Net              | 3.0 Kg (6.6 lbs)  |  |  |
| WEIGHT           | Filled           | 4.0 Kg (8.8 lbs)  |  |  |
| IP CLASS         |                  | Main Device: IP55 / Power Adaptor: IP65   |  |  |
| CONNECTIONS      |                  | 1" NPT Water Inlet & Outlet   |  |  |

# 2 INSTALLATION

# 2.1. PRECAUTIONS BEFORE INSTALLATION

# If any parts are damaged, contact your supplier IMMEDIATELY. Do NOT install damaged parts.

This device is designed and engineered for easy integration into existing water systems. However, having the following tools and supplies in hand will be greatly helpful to the installation:

• Screwdriver

• Pipe wrench

Drill bit

Adjustable wrench

• Tape measure

#### Electrical

Ensure that the power supply voltage corresponds to the stated voltage on the unit's specification label. Make sure that the plug on the power cord from the product and the outlet are matched. For proper operation, and to ensure the best performance of application from the product, make sure that the system is not connected to a switched electrical outlet.

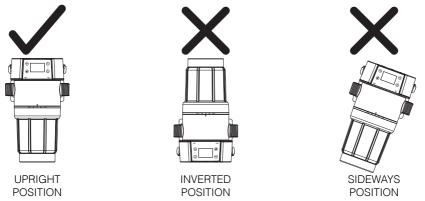
#### Plumbing

- For best performance, use cold tap water and filter the input water to 1µm.
- For safety, run water pressure under 7 kg/cm<sup>2</sup> (100 psi). To reduce water pressure, install a water pressure regulator and set water pressure to suit application.
- Ensure adequate back-flow protection is provided to comply with all national and local standards and codes.
- Do NOT over-tighten the connections. It is recommended that plastic fittings be used when connecting to the plastic connections of the product. This will reduce the possibility of cracking the connections due to over-tightening. The use of union (O-ring seal) connections is highly recommended for ease of installation and future servicing.

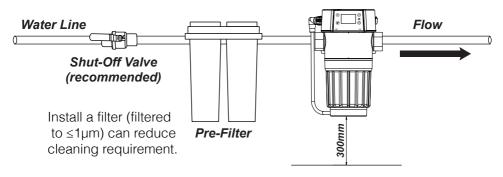
## **Other Important Information**

Observe these guidelines to ensure optimal device functions and performances.

- 1. Select a location for the unit so:
  - Mount the system after all water filtration processes.
  - Mount the system near but NOT above an electrical outlet.
  - It will be in an upright position.



- LED lights and cartridge are visible and accessible. Allow sufficient access for cartridge replacement. Recommended minimum "Vertical Clearance" is 30cm (12").
- It is highly recommended that a water shut-off valve be installed before and near the unit.
- Other equipment or objects should not lean on or press against the device.

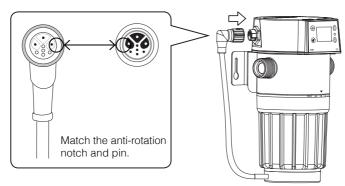


- 2. Do NOT mount the system above any electrical equipment or items that may be damaged if they get wet.
- 3. Note the existing waterline piping layout and flow direction when connecting appropriate size of tubing on the "WATER IN" and "WATER OUT" sides of the unit.
- 4. For best result, clean and sanitize the connecting waterlines thoroughly before installing.

# 2.2. INSTALLING THE UNIT

### STEP 1. Connecting Cell Cartridge Power

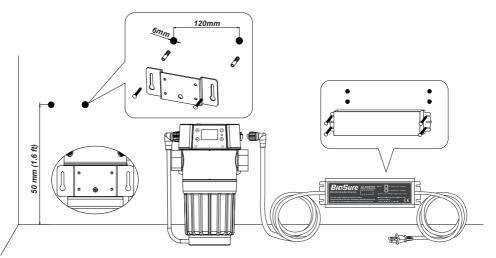
Connect the Cell Cartridge Power Plug to the Cell Cartridge Power Socket on the Head.



## STEP 2. Mounting the Unit

The unit is pre-assembled to a Mounting Bracket. The Mounting Bracket has mounting holes to secure the body of the unit to a wall. Please follow the previous section "Precautions before installation" to select an appropriate location and mark it. Secure the Mounting Bracket into wall studs or with the appropriate heavy-duty mounting hardware.

It is highly recommended to mount the power adaptor on a wall or where is dry to prevent from water splash. It's important to keep the adaptor away from moisture to prevent electrical shock or damage. Using screws, attach the power adaptor to the wall through the wall anchors. Make sure that it is securely fastened to the wall.



# ! NOTICE

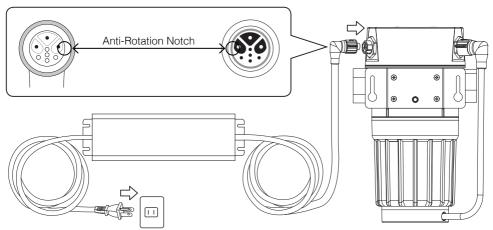
## PLUMBING NOTE

- 1. Before connecting the fitting to the System Inlet, the plumbing to the unit must be flushed clear of all debris.
- 2. Install the inlet screen filter (attachment) on the water inlet of the unit. Note the flow direction. Connect appropriate size of tubing on the "WATER IN" and "WATER OUT" sides of the unit.
- 3. When making a plumbing connection to the product, always use a good quality, approved pipe sealant or thread seal tape on pipe threads. Be careful not to get the pipe sealant inside the pipe when making the connections.
- 4. A shut-off valve (not supplied) should be installed in the line leading to the product as inlet water valve. The valve should be mounted close to the system inlet and sized properly for the inlet plumbing line. This valve will allow for the following two functions:
  - Easier servicing and future cell cartridge replacement.
  - Configuring flow as well as dissolved ozone concentrations.

## STEP 3. Starting the Unit

There is no ON/OFF control switch with the unit. The unit is switched ON by connecting the power supply cord into a wall electrical outlet (power supply).

1. Connect the Power Supply Cord into the Main Power Socket (marked as "Power") at rear left to the Head. Here is the design to guide plug in properly.









- 2. Plug the Power Adapter into the wall electricity outlet.
- 3. The Screen and LEDs on the controller (the Head) will light up, indicating the unit has power.



# 

Before connecting the unit to power supply, ensure all plumbing connections are secure and leak-free, from shut-off valve to outlet.

# 2.3. TO REMOVE THE UNIT

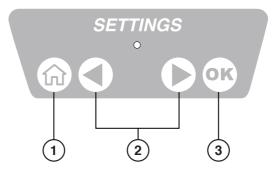
Please follow descriptions below :

- 1. Disconnect the power.
- 2. Shut off the Shut-off valve before the unit.
- 3. Open the faucet or tap closest downstream to the device.
- 4. Loosen the connectors of water inlet and outlet.
- 5. Take off the unit. Use proper tools if necessary.
- 6. Restore water line.
- %: You may tilt the body slightly to drain the remaining water in the unit from the water outlet.

**3** OPERATION

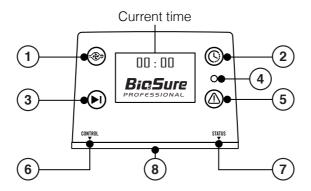
# 3.1 CONTROL KEYS & INDICATORS

### **Control Keys**



| NO. | ITEM          | DDESCRIPTION   |
|-----|---------------|--|
| 1   | Menu / Return | - Enter or return to Menu as ESC                               |
| 2   | Selections    | <ul><li>Display alternatives</li><li>Select settings</li></ul> |
| 3   | OK / Enter    | <ul><li>Save selection</li><li>Confirm selection</li></ul>     |

#### Indicators

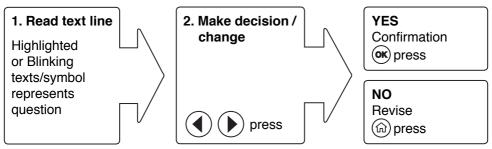


| NO. | ITEM   | LED             | DDESCRIPTION  |
|-----|--|-----------------|---|
| 1   | Flow-Starting indicator                                  | Blue            | Flow switch activated - the unit is under flow-starting operation.  |
| 2   | Timer-Controlling indicator                              | Blue            | <b>Timer switch activated -</b> the unit is under timer-controlling operation.  |
| 3   | Signal-Starting indicator                                | Blue            | Signal control activated - the unit is under<br>signal command by OPEN / CLOSED type<br>switch device.  |
| 4   | Operation indicator                                      | Green           | Dissolved ozone dosage is activated.  |
| 5   | Alarm indictor   | Yellow          | <ul> <li>Slow blinking - system error detected in<br/>POST (Power On Self Testing).</li> <li>Fast blinking - system error detected<br/>while the unit is on duty.</li> <li>Steady solid on - replace cell cartridge<br/>now.</li> <li>* For detail regarding all error codes, refer<br/>to Troubleshooting in Section 5.</li> </ul> |
| 6   | Control input <sup>*1</sup><br>(optional)                | NA              | Input of OPEN / CLOSED type command.  |
| 7   | Operational Status<br>Output <sup>*1</sup><br>(optional) | NA              | The output signal presents as a 'closed status' during operation and as an 'open status' when the operation stops.  |
| 8   | Flow indicator   | Blue LED<br>Bar | Steady solid on - water flow detected.<br>Blue breathing - standby, no flow detected<br>and the light will extinguish after 3 minutes.  |

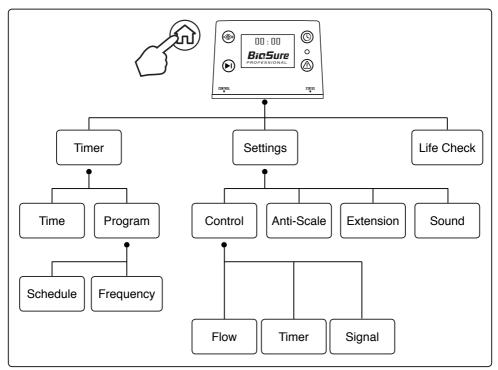
\*1: Male connector is not included.Contact your regional dealer for more information. (P/N: A717620011011 )

# 3.2 OPERATION MENU

Menu Operating Principle



## Menu Overview



## Timer

#### Time Setup or change current time

Program Program switching schedule and frequency settings

- Schedule Activation schedule for hourly basis (00-23 on the hour). Default is 00-23 all on.
- Frequency Program switching frequency in scheduled operating hour. Factory default setting is 60-second dosage in 3-minute cycle. User can configure the frequency by selecting the "configuration" option:
  - Interval User can set the interval cycle from 3 to 60 minutes (in units of 3 minutes).
  - **Period** User can set the range from 10 to 60 seconds (10 seconds as a unit) for ozone dosage in each interval cycle.

#### Settings

**Control** Select switching controllers: flow-starting, timer-controlling or signal-controlling (default is flow-starting)

#### Dosage

- Extension You can extend ozone generation time after each usage to raise ozone concentration in advance for the next use. Options include:
  - 1. None (default)
  - 2. 60-second extension
  - 3. 120-second extension
- Anti-Scale Select settings for auto-descaling and self-cleaning function according to the running water quality in terms of Total Dissolved Solids (TDS) level. Options include:
  - 1. TDS < 100 (default)
  - 2. TDS > 100
- Sound Set the alarm on or off (default is off). With the function on, the unit will beeps 3 times when:
  - 1. the "Sound" function is activated successfully
  - 2. the system shows alarm message
  - 3. the life of cell cartridge expires. (The unit will beep 3 times whenever the cell cartridge works after the first warning)

Life Check Check the remaining life of cell cartridge, expressed in percentage (%)

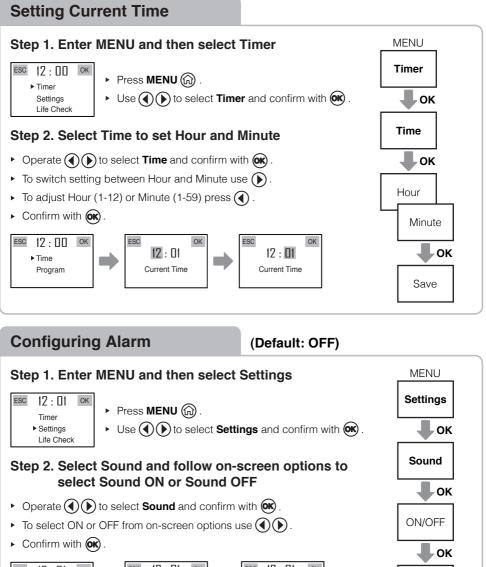
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The configured "Program" ONLY functions when the use of "Timer-Controlling" is selected.

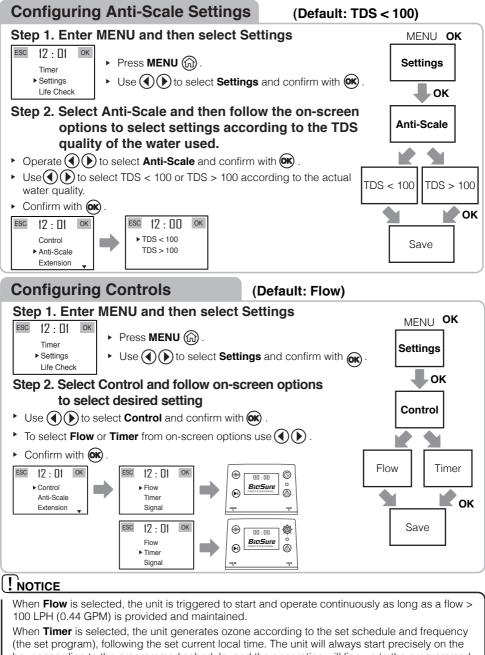
The configured "Extension" ONLY functions when the use of "Flow-Starting" is selected.

When using external signals for control, the flow signal or frequency setting will have no effect.

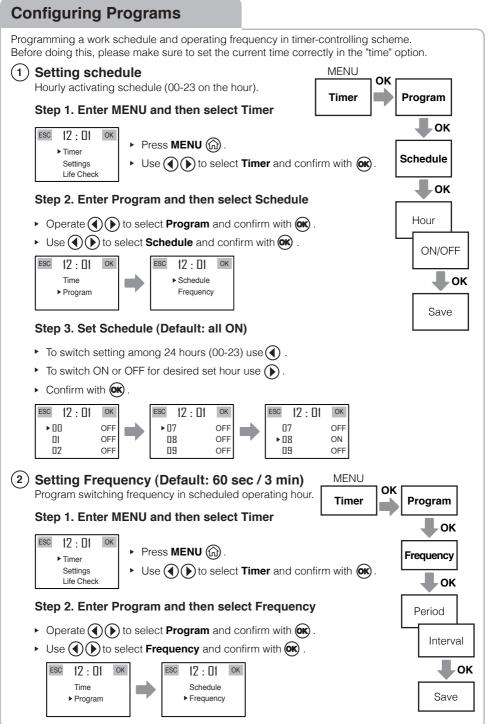
# 3.3 OPERATION SETTINGS & STATUS







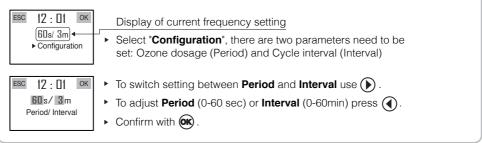
hour according to the programmed schedule, and the generation will line up to the programmed frequency. However, between two adjacent generations, there must exist a > 1 second and > 100 LPH (0.44 GPM) flow. The flow is necessary for the unit to continue the operation preventing pressure build-up within the cartridge. If this check flow is delayed, the next generation will be postponed to the next available frequency point after the detected check flow.

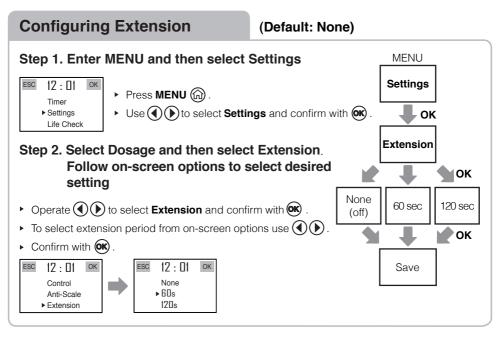


#### **Configuring Programs**

#### Step 3. Set Frequency

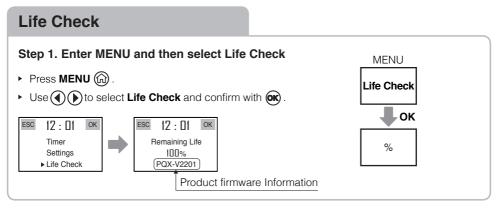
Default frequency setting is 60s/3m. Select Configuration and user can change the setting based on application and needs.





# 

When **Extension** is activated, the unit will extend ozone generation time after each usage to raise ozone concentration in advance for the next use.



# 

The remaining life of cell cartridge is expressed in percentage (%). Information about the product firmware is provided as well.

# 3.4 SYSTEM CONFIGURATION GUIDES

Please contact your regional BioSure Professional dealer for further detail.

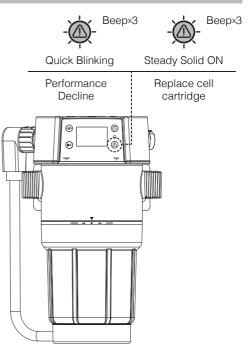
| Applications   | Control Setting                    |
|--|------------------------------------|
| Water sanitation and waterlines treatment                        | Timer-Controlling or Flow-Starting |
| Commercial Faucet Integration,<br>Commercial Laundry Integration | Flow-Starting                      |

4 MAINTENANCE

# 4.1 EXPECTED CELL CARTRIDGE LIFE

The life of cell cartridge is 1000 working hours\*. Hard water or high mineral content water (CaCO<sub>3</sub> > 250 ppm) can shorten the cell's performance life. An alarm LED is present on the display panel of the device to warn that the cell cartridge is finished for its effective life cycle or an error is detected.

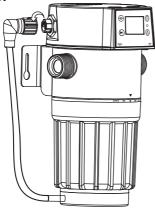
\*Calculated on the basis of 2-3 hours usage (working hours) per day, the cell cartridge can be used for about 11-16 months. (The definition of working hours is actual ozone generating duration rather than the power-on time.)



# 4.2 CELL CARTRIDGE REPLACEMENT

- 1. Unplug the device, open the faucet or tap closest downstream to the device.
- 2. Close the inlet water shut-off valve and allow the system to depressurize.

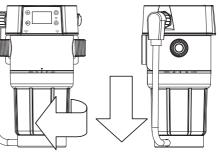
#### Step 1.



- Disconnect the Cell Cartridge Power Plug from the Cell Cartridge Power Socket on the Head.
- 4. Hold body of device steady, untwist the used cartridge, pull to remove for replacement, and dispose of appropriately.



Step 3.

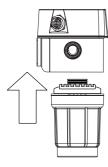


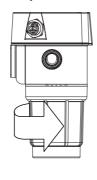
5. Revert the procedures with a new cartridge for replacement.

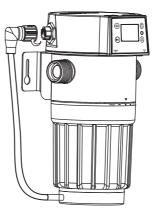
Step 1.

#### Step 2.

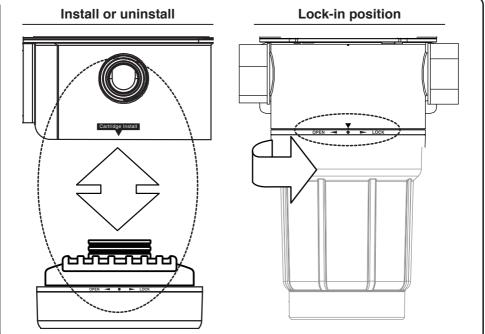
Step 3.







# 



# 4.3 CELL CARTRIDGE CLEANING PROCEDURE

The cell cartridge of the unit will be affected by the water quality. Hard water can cause scaling, which could affect the operating capacity and life. The cleaning steps are as follows:

- 1. Power off the unit.
- 2. Fill the cell cartridge with vinegar concentrate or white vinegar.

Close the shut-off valve in front of the unit, detach the cartridge as described in section 4.2. Fill the cell cartridge with vinegar concentrate or white vinegar.

3. Wait for 2-24 hours.

The higher the vinegar concentration, the fewer hours is needed. It would takes about 2 hours for 20% vinegar concentrate or 24 hours for white vinegar.

- 4. **Pour out the vinegar and rinse the cartridge with clean tap water.** Rinse the cartridge with clean tap water at least 3 times.
- 5. Follow the instructions in section 4.2 to reinstall the cell cartridge and switch-on the shut-off valve to complete the cleaning procedures.

# 5 TROUBLESHOOTING

Use the following guide to self-check your problems before requesting repairs. If you come into a conclusion that problem has occurred, do NOT attempt to disassemble and repair the product yourself, but contact BES Group or your dealer for support.

# Sometimes suspected problem is remedied by disconnecting the power plug and then re-connecting it.

| Problem  | Possible Cause   | Corrective Action   |
|--|--|---|
|  |  |   |
| Unit does not have power.  | The power cord is not correctly plugged in.                        | Plug the power cord in correctly.                                   |
| Light effects are absent.  | The power outlet is not working properly.                          | Correct the power outlet.   |
|  | The power cord is not correctly plugged in.                        | Plug the power cord in correctly.                                   |
| The Control Display is blank.  | Control panel is inoperable.                                       | Contact your maintenance  |
|  | Power Supply is inoperable.  | Contact your maintenance<br>person or authorized<br>service agency. |
| No water comes out of the unit.  | Inlet shut-off valve closed.                                       | Open the valve.   |
| Water leaks from system fitting  | Fitting broken or loose.   | Retighten or replace the fitting.                                   |
| or connection.   | Not enough pipe thread sealant used.                               | Redo the fitting with proper amount of sealant.                     |
| Alarm is ON<br>-<br>- Slow blinking<br>On-screen Display Error E01<br>Sound (if activated): Beep x 3 | Timing system malfunction<br>detected when turning on<br>the unit. | Contact your maintenance<br>person or authorized<br>service agency. |

| Problem  | Possible Cause   | Corrective Action   |
|--|--|---|
|  |  |   |
| Alarm is ON<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-<br>-  | Cell cartridge disconnection<br>or connection failure detected<br>when turning on the unit.        | Reconnect the cell cartridge<br>cable.If it does not work,<br>please contact your<br>maintenance person or<br>authorized service agency.                    |
| Alarm is ON<br>- $\overleftarrow{h}$ - Slow blinking<br>On-screen Display Error E03<br>Sound (if activated): Beep x 3                                  | Cell cartridge malfunction.  | Power off the unit and power<br>it back on 10 sec later. If it<br>does not work, please contact<br>your maintenance person or<br>authorized service agency. |
| Alarm is ON<br>-<br>-<br>- Slow blinking<br>On-screen Display Error E04<br>Sound (if activated): Beep x 3  | The model of cell cartridge<br>replacement does not match<br>(incorrect model of part is<br>used). | Replace a correct cell<br>cartridge. Contact your<br>maintenance person or<br>authorized service agency.  |
| Alarm is ON  | Loose or defective contact of cell cartridge occurs during operation.                              | Reconnect the cell cartridge<br>and restart the unit. If the<br>symptom remains, contact<br>your maintenance person or<br>authorized service agency.        |
|  | TDS too low.   | Correct water source.   |
| <b>On-screen Display</b> Error E05<br><b>Sound</b> (if activated): Beep x 3  | Scaling in the cell cartridge due to mineral content in water (hardness).                          | Performance drop may be<br>associated with scaling in<br>the generator. Please excute<br>the cleaning procedure in<br>Section 4.3.                          |
| Alarm is ON<br>Steady<br>Solid ON<br>Sound (if activated): Beep x 3<br>The system will beeps 3<br>times whenever the cell<br>cartridge starts to work. | Cell cartridge is due for replacement.   | Replace a new cell cartridge<br>immediately. Contact your<br>maintenance person or<br>authorized service agency.  |

Please have the model number and serial number of the device availablewhen calling for support.

# WARRANTY INFORMATION

### LIMITED WARRANTY

Equipment manufactured by Biotek Environmental Science Ltd. has been constructed of the finest materials available and manufactured to high quality standards. When installed in accordance with manufacturer's recommendations, and under normal use and service, new BioSure Professional WDS Max units are warranted to be free of defects due to poor materials or workmanship for the period of time listed below (following the date of purchase):

- WDS Head & Connecting Body: 2 years.

- WDS Cell Cartridge: 6 months or the end of life (whichever comes first).

**Exclusions:** This warranty does not cover failures due to improper system installation, defects caused by improper storage or handling prior to placing of the equipment into service. This warranty does not include damages due to attempted repairs or installation by unauthorized service agencies or personnel. This warranty does not cover normal maintenance, calibration, or regular adjustments as specified in operating and maintenance instructions of this manual, and/or labor involved in moving adjacent objects to gain access to the Equipment. Biotek Environmental Science Ltd. is not liable under this warranty for repairs or damages due to alterations, abuse, fire, flood, or acts of nature.

Additionally, this warranty may be voided in the case of:

- Failure to follow BES Group instructions for use, care, or maintenance.
- Removal, alteration, or defacing of BES Group-affixed serial number and other labels.
- Mechanical damage.
- Use of fluids other than clean, potable water.

This warranty is conditional upon Biotek Environmental Science Ltd. receiving notice of any defect subject to this warranty within thirty (30) days of its original discovery by the User/Buyer.

Biotek Environmental Science Ltd. reserves the right to make changes in design or add any improvements on any product. The right is always reserved to modify equipment due to factors beyond our control and continuous product development. Changes to update equipment do not constitute a warranty charge.

If shipment is damaged in transit, the purchaser should make a claim directly upon the carrier. Careful inspection should be made of the shipment as soon as it arrives and visible damage should be noted upon the carrier's documentation. Damage should be reported to the carrier. This damage is not covered under this warranty. Prices and specifications are subject to change without notice.



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#### **CONTACT INFORMATION**

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