



WATER ELECTROLYZER

INSTRUCTION MANUAL

FOR END USER

ROX-20TB-E

L188AV111 (100507)

IMPORTANT

Only qualified service technicians should attempt to install, service or maintain this product. No installation, service or maintenance should be undertaken until the technician has thoroughly read this Instruction Manual. Likewise, the owner/manager should not proceed to operate the product until the installer has instructed them on its proper operation.

HOSHIZAKI provides this manual primarily to assist qualified service technicians in the installation, maintenance and service of the product.

Should the reader have any questions or concerns which have not been satisfactorily addressed, please call or write to the HOSHIZAKI International Sales & Marketing Department.

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Note: To expedite assistance, all correspondence/communication MUST include the following information:

- * Model Number
- * Serial Number
- * Complete and detailed explanation of the problem

* Please review this manual. It should be read carefully before the water electrolyzer is installed and operated. Only qualified service technicians should install, service and maintain the water electrolyzer. This manual should be made available to the technician prior to installation, maintenance or service.

* Keep this manual with the water electrolyzer for later reference.

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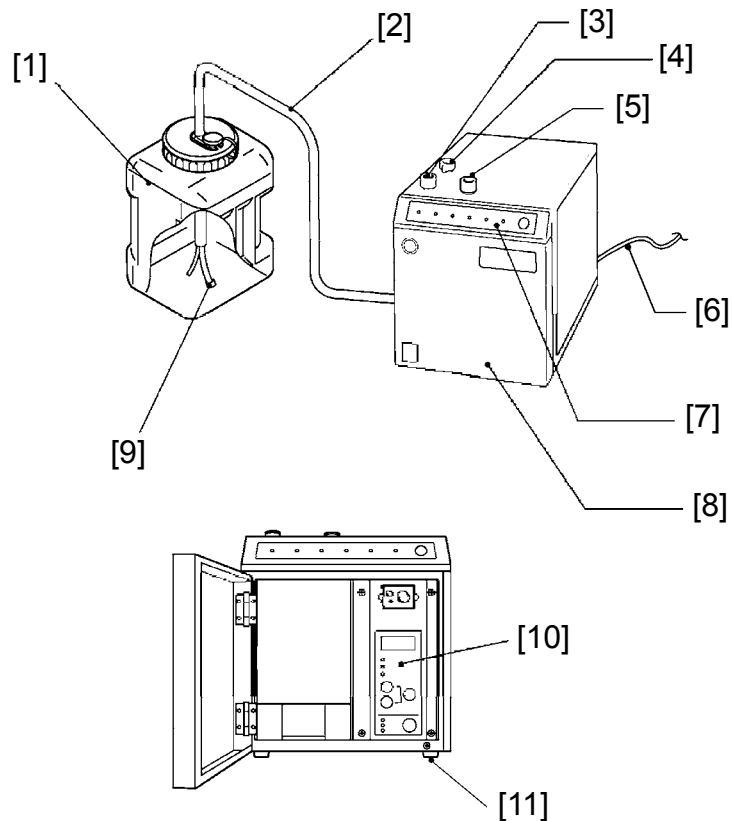
I. GENERAL INFORMATION

1. SPECIFICATIONS

Model	ROX-20TB-E
Electrolysis System	Membrane Electrolysis
Electrolyte	Salt containing min 99% sodium chloride
Power Supply	1 Phase 100 - 240V 50/60Hz
Electric Consumption	330W
Production Quality	Acid Water: Approx. pH 3.0 or less (Sanitizing) Available Chlorine: 20 ppm or more (0.17 lbs x 10 ⁻³ /gal or more) Alkaline Water: Approx. pH 11.0 or more (Cleaning)
Production Capacity	Acid Water: Approx. 1.5 - 3 L/min (0.4 - 0.8 gal/min) (Sanitizing) Alkaline Water: Approx. 1.5 - 3 L/min (0.4 - 0.8 gal/min) (Cleaning)
Exterior	Stainless Steel, Galvanized Steel (Polyester Label)
Exterior Dimensions (WxDxH)	Body: 280 x 400 x 310 mm (11" x 15-3/4" x 12-3/16")
Weight	22 kg (44 lbs)
Temperature Range	Ambient Temperature: 5 - 35°C (40 - 95°F) Water Temperature: 5 - 30°C (40 - 86°F)
Water Supply	Tap Water (complying with applicable water quality standard) Water Pressure: 0.1 - 0.75 MPa (22 - 109 PSIG) [reducing valve provided]

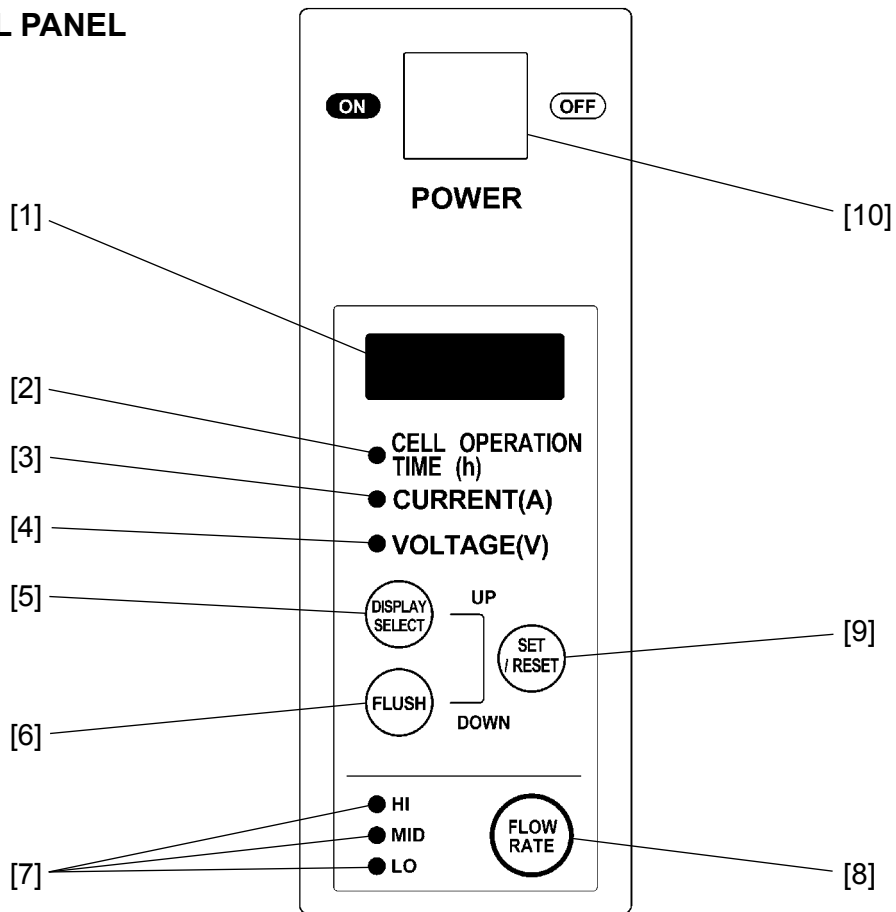
2. CONSTRUCTION

[a] GENERAL



- [1] Salt Water Tank
Stores salt water (5 L).
- [2] Salt Water Hose
Made of PVC.
- [3] Alkaline (Cleaning) Water Outlet
Dispenses alkaline (cleaning) water during the normal operation and acid (sanitizing) water during the flushing process.
- [4] Water Supply Inlet
Inlet for potable water supplied to the unit.
- [5] Acid (Sanitizing)Water Outlet
Dispenses acid (sanitizing) water during the normal operation and alkaline (cleaning) water during the flushing process.
- [6] Power Supply Cord
Flexible cord with a grounding conductor and grounding type attachment plug.
- [7] Display Panel
See “[c] DISPLAY PANEL”.
- [8] Door
- [9] Salt Water Filter
Removes foreign substances in salt water.
- [10] Control Panel
See “[b] CONTROL PANEL”.
- [11] Leg
Not adjustable.

[b] CONTROL PANEL



[1] Display Window

Displays the operation time, amperage or voltage during the normal operation and error codes in case of trouble.

[2] Cell Operation Time Lamp

Display Window displays cell operation time (h) when this lamp is on.

[3] Current Lamp

Display Window displays current (A) when this lamp is on.

[4] Voltage Lamp

Display Window displays voltage (V) when this lamp is on.

[5] Display Select Button

Switches the display of the Display Window. Also functions as Up Button to increase the set values.

[6] Flush Button

Functions as a switch to flush the pipes beyond the acid (sanitizing) and alkaline (cleaning) water outlets. Also functions as Down Button to decrease the set values.

[7] Flow Rate Lamp

Indicates the selected flow rate mode.

[8] Flow Rate Button

Adjusts the flow rate.

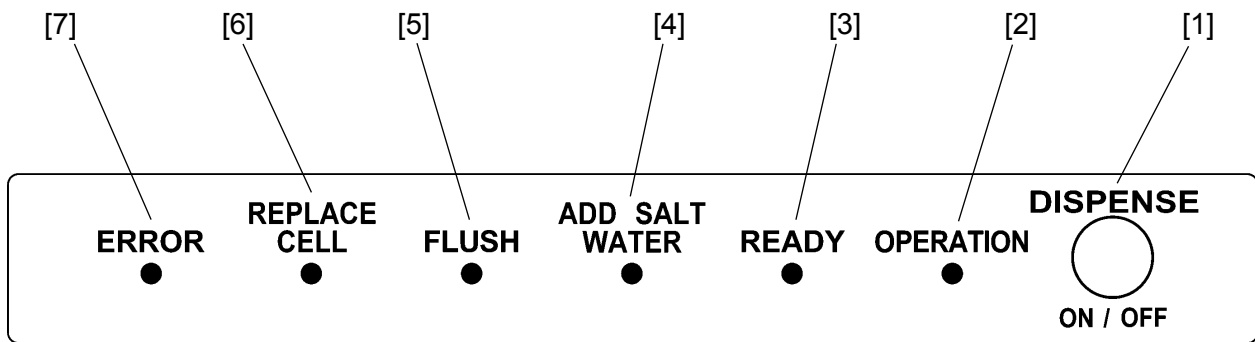
[9] Set/Reset Button

Only qualified service personnel or installer may press this button to adjust various set values.

[10] Power Switch

Turns the unit on and off.

[c] DISPLAY PANEL



[1] Dispense Button

Starts and stops dispensing electrolyzed water.

[2] Operation Lamp (Green)

Indicates that the unit is running.

[3] Ready Lamp (Green)

Flashes until the desired settings are achieved and stays on when the unit is dispensing electrolyzed water.

[4] Add Salt Water Lamp (Red)

Indicates that the Salt Water Tank level is too low.

[5] Flush Lamp (Red)

Stays on during the flush operation. Indicates that the unit is in flush cycle.

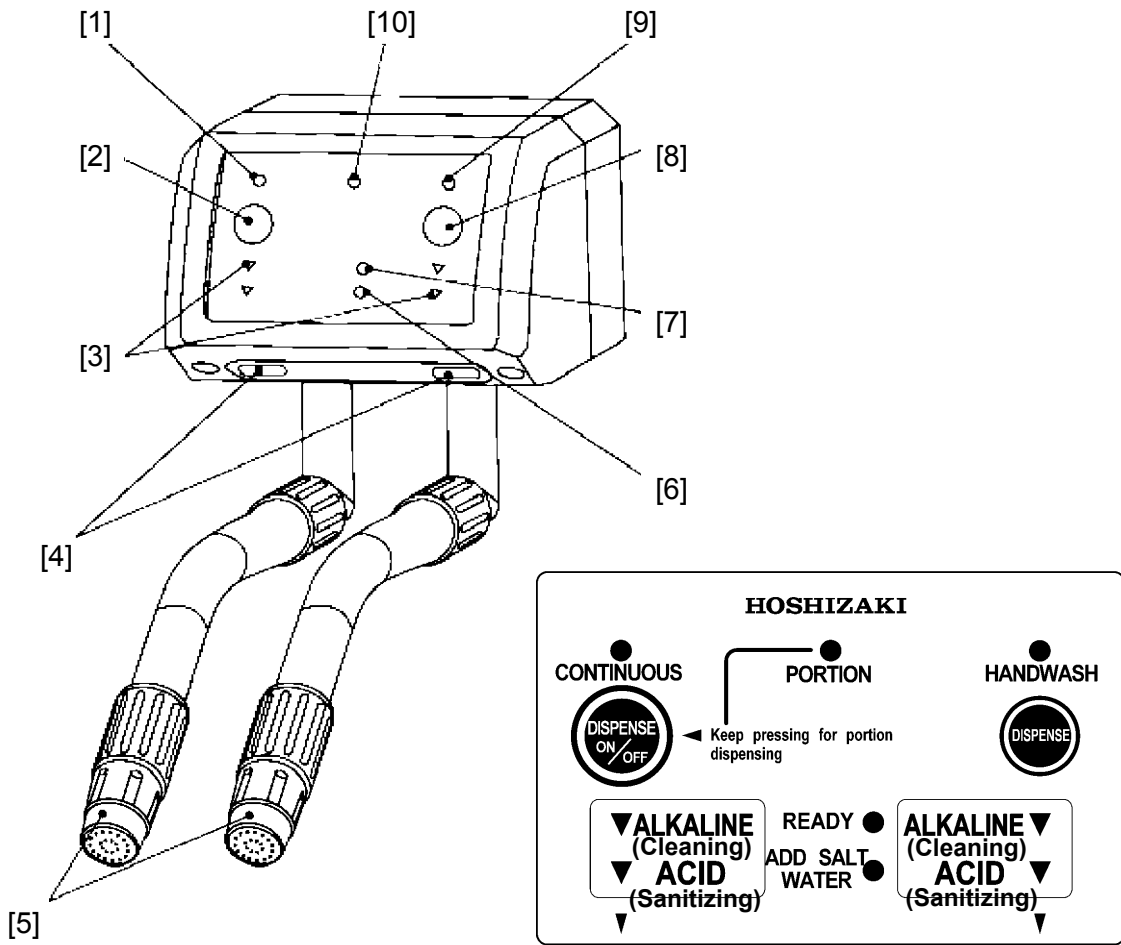
[6] Replace Cell Lamp (Red)

Indicates that the cell life is near completion. Flashes continuously from 2900 hours to 3000 hours and stays on after 3000 hours.

[7] Error Lamp (Red)

Indicates that there is trouble detected.

[d] REMOTE CONTROLLER (ACCESSORY)



- [1] Continuous Dispense Lamp (Green)
Lights in the continuous dispensing mode which is activated or deactivated by pressing the Dispense Button or putting a hand or object in front of the Dispense Sensor on the left.
- [2] Dispense Button
Starts and stops dispensing electrolyzed water in the continuous or portion control dispensing mode.
- [3] Electrolyzed Water Lamp (Green, Orange)
Indicates the alkaline (cleaning) water and acid (sanitizing) water outlets.
- [4] Dispense Sensor
Senses a hand or object to start and stop dispensing electrolyzed water without using the Dispense Button.
- [5] Electrolyzed Water Outlet
Discharges electrolyzed water.
- [6] Add Salt Water Lamp (Red)
Indicates that the Salt Water Tank level is too low. Flashes when the Error Lamp on the Display Panel lights up.
- [7] Ready Lamp (Green)
Flashes until the desired settings are achieved and stays on when the unit is dispensing electrolyzed water.
- [8] Handwash Button
Starts and stops dispensing electrolyzed water in the handwash mode.

[9] Handwash Lamp (Green)

Lights in the handwash mode which is activated or deactivated by pressing the Handwash Button or putting a hand or object in front of the Dispense Sensor on the right. The Electrolyzed Water Lamps light up in turn to indicate the proper handwashing steps - first alkaline (cleaning), then acid (sanitizing) [adjustable from 15 to 120 seconds each].


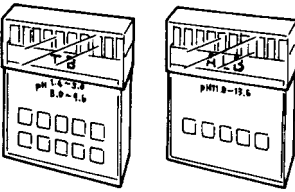

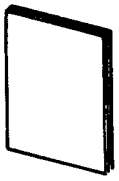
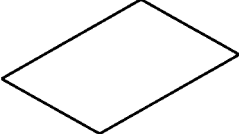
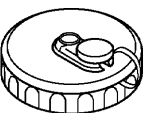

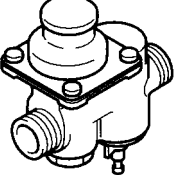
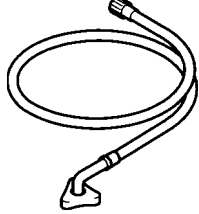
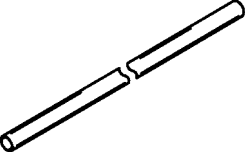

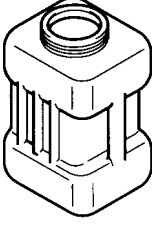

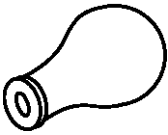
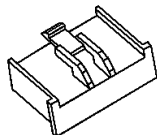
[10] Portion Control Lamp (Green)

Lights in the portion control dispensing mode which is activated by pressing the Dispense Button for 3 seconds or putting a hand or object in front of the Dispense Sensor on the left for 3 seconds. Water automatically stops after the set dispense time indicated in the Display Window on the Control Panel (adjustable from 1 to 60 minutes).

Note: To avoid unbalancing the water properties or causing water leaks, do not block the Water Outlets.

The Dispense Sensor may react with reflective materials such as glass and metal, even outside the normal detection range.

3. ACCESSORIES

Connector 	pH Tester 	Chlorine Tester 	Instruction Manual Installation Manual 
Operation Sheet 	Cap 	Gasket 	Pressure Reducing Valve 
Water Supply Hose 	Braided Hose 	Salt Measuring Cup 	Salt Water Tank 
Clamp 	Rubber Dropper 	XM Connector (5P) * 	

* To operate the unit in the Pool Mode, replace the XM Connector (5P) [red] on the rear of the Control Box with the accessory XM Connector (5P) [blue]. See "II. 9. [a] OPERATION MODE" in the installation manual.

II. CHECKS BEFORE OPERATION

1. CHECKING AMOUNT OF REMAINING SALT WATER

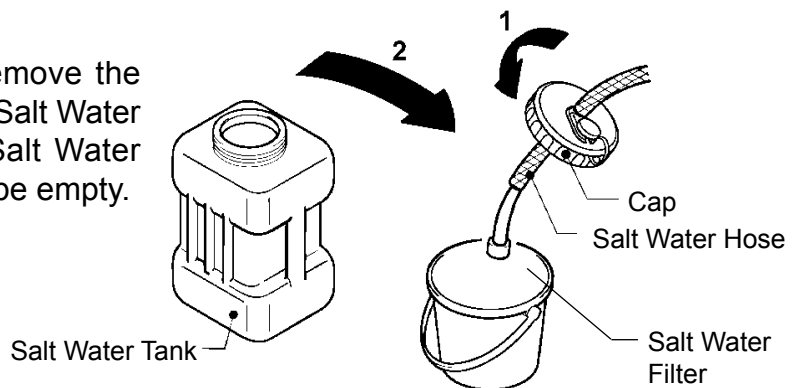
- 1) Check that there is enough salt water in the Salt Water Tank.
- 2) Add salt water following “2. MAKING SALT WATER” if there is not enough or no salt water in the tank.

2. MAKING SALT WATER

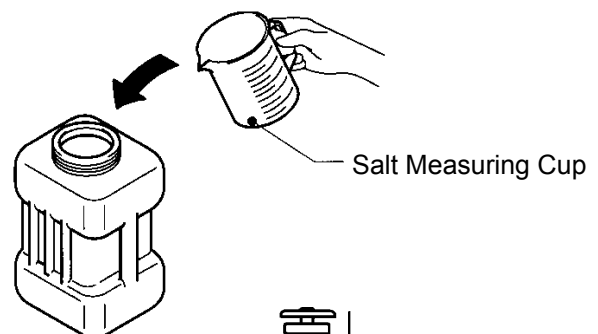
IMPORTANT

1. Use sodium chloride salt (NaCl) or potassium chloride (KCl) with over 99% purity. Salt other than those may damage the unit, clog pipes, etc.
2. Shake the tank until salt is completely dissolved. Salt lumps may damage the unit.

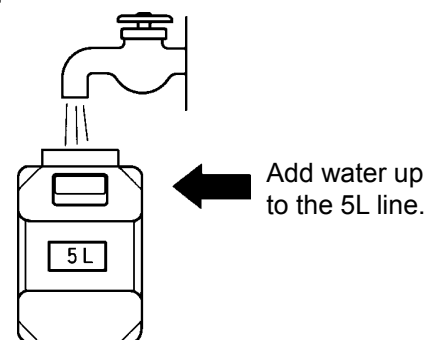
- 1) Prepare the Salt Water Tank. Remove the Salt Water Hose and Cap from the Salt Water Tank when using the Accessory Salt Water Tank. The Salt Water Tank should be empty.



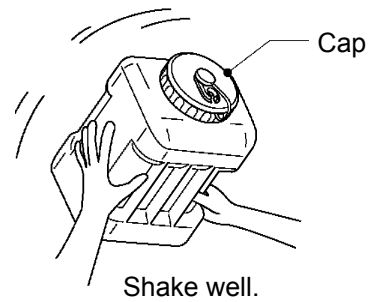
- 2) Add a full cup [approximately 700 ml (24 oz)] of sodium chloride salt (NaCl) or potassium chloride (KCl) of 99% purity to the Salt Water Tank. Be sure to use the Accessory Salt Measuring Cup.



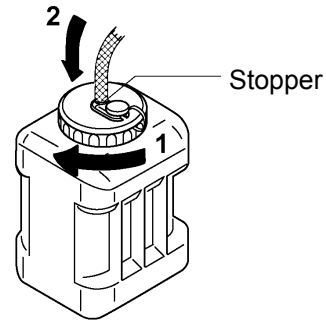
- 3) Add water to the Salt Water Tank until water reaches the 5 L line. This yields salt water with approximately 13% concentration.



- 4) Check that the Mini Cap is closed, and put the Cap on the Salt Water Tank. Shake it until sodium chloride salt (NaCl) or potassium chloride (KCl) completely dissolves in the water.



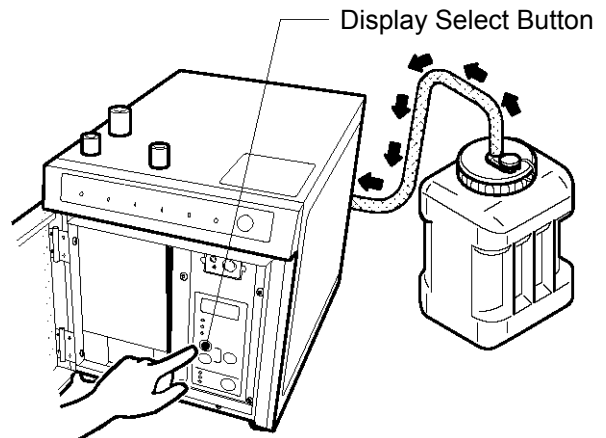
- 5) Open the Mini Cap and put it in the recess, and push in the Salt Water Hose until the Stopper hits the Cap.



3. PURGING SALT WATER SUPPLY PUMP

This unit uses a pump to supply salt water. If the Salt Water Supply Pump contains air, electrolyzed water cannot be dispensed properly. When the unit is installed for the first time, when the Add Salt Water Lamp on the Display Panel goes on, or when the Error Lamp on the Display Panel turns on and the Display Window on the Control Panel shows the error code "E51", purge air from the Salt Water Supply Pump as follows:

- 1) Check that there is enough salt water in the Salt Water Tank.
- 2) Open the Door and check that the Power Switch is off. Turn the Power Switch off if it is on.
- 3) Turn the Power Switch back on.
- 4) Press the Display Select Button and hold it down.



- 5) The Pump starts running and pumping up the salt water to purge the Salt Water Hose. It takes about 20 seconds to purge a 1.5 m (60") long hose. The sound of the Pump will change from high to low when the air is removed.
- 6) Release the Display Select Button when air is purged.

III. OPERATION

1. START UP

WARNING

1. Do not drink electrolyzed water or allow contact in eyes or face. Use for other than washing purpose may cause health problems. Rinse with plenty of tap water if electrolyzed water gets into eyes or face.
2. To prevent an electric shock, do not touch the Attachment Plug, Power Switch, or other electrical parts with damp hands.
3. The Power Cord should not be modified, jerked, bound, brought close to heat producing equipment, pressed down or pinched. It may be damaged and cause a risk of electric shocks or fires.
4. All parts are factory-adjusted. Improper adjustment may result in failure.
5. Do not splash water directly onto the unit. It may cause a short circuit, electric shock, corrosion or failure.
6. Install an adequate ventilating system. Hydrogen gas or chlorine gas may cause health problems.

CAUTION

1. Use glass, plastic or stainless steel containers for electrolyzed water. Acid (sanitizing) water may corrode metal.
2. Do not use combustible spray or place volatile and flammable substances near the unit. They could catch fire from a spark of a switch or the like.
3. Do not place heavy objects or water containing vessels on the unit. They could fall off and cause injury, or spilt water could degrade the electrical insulation and increase the risk of electric leaks.

1) Open the Water Supply Line Shut-off Valve.

2) Check for proper operation of the Water Softener.

Note: When using the Water Softener for the first time, supplied water may be yellow due to an outflow of the ion-exchange plastic inside the Water Softener. Open the Water Supply Line Drain Valve and drain supplied water till it is clear.

3) Check that the Salt Water Tank is properly set up.

- 4) Check that the Salt Water Supply Pump is purged.
- 5) Plug in the unit.
- 6) Open the Door and move the Power Switch to the “ON “ position.
- 7) Close the Door.
- 8) Press the Dispense Button on the Display Panel or the Remote Controller if the Remote Controller is installed. Press the Dispense Button on the Display Panel if the Water Tank is installed.
- 9) The Dispensing Lamp will turn on and the Ready Lamp will be flashing. Ineffective electrolyzed water will be dispensed at first.

Note: Do not use electrolyzed water while the Ready Lamp is flashing when using water dispensed from the Remote Controller. With the Water Tank, ineffective electrolyzed water and effective water will mix inside the Water Tank and the mixed water will be effective.

- 10) When the water becomes effective, the Ready Lamp stops flashing and stays on.
- 11) Check the water supply and drain connections for water leakage.

2. SHUT DOWN

- 1) For daily shutdown, press the Dispense Button on the Display Panel or Remote Controller. The Ready Lamp will flash for about 3 seconds and the unit will stop dispensing electrolyzed water. To restart the unit, press the Dispense Button on the Display Panel or Remote Controller.
- 2) For long storage, see “IV. 7. PREPARING WATER ELECTROLYZER FOR LONG STORAGE”.

IV. MAINTENANCE

1. CHECKING pH AND AVAILABLE CHLORINE CONCENTRATION

IMPORTANT

Be sure to check electrolyzed water before use.

- 1) Dispense acid (sanitizing) and alkaline (cleaning) water into glasses or other containers.
- 2) Use the Test Paper to check the following values:

Check Item	Applicable Test Paper
Alkaline (Cleaning) Water pH Value	pH Tester AZY
Acid (Sanitizing) Water pH Value	pH Tester TB
Acid (Sanitizing) Water Available Chlorine Concentration	Chlorine Tester

Note: It is not necessary to check the available chlorine concentration of alkaline (cleaning) water.

- 3) Check that each value is within the following range:

	pH Value	Available Chlorine Concentration
Alkaline (Cleaning) Water	Approx. 11.0 or more	N/A
Acid (Sanitizing) Water	Approx. 3.0 or less	20 ppm or more (0.17 lbs x 10 ⁻³ /gallon or more)

Note: See the instruction manual of each test paper for details of its proper handling. If any of the checked values exceeds the specified range, contact an authorized Hoshizaki service company. To order a new supply of test paper, contact an authorized Hoshizaki service company.

- 4) Fill in a copy of the "VI. DAILY INSPECTION SHEET" and keep a record of the checked value.

2. FLUSHING ALKALINE (CLEANING) WATER PIPE

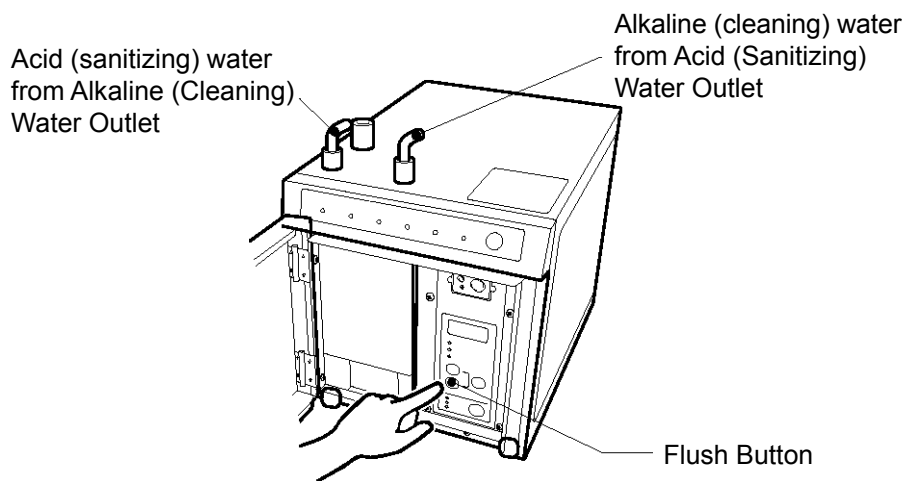
IMPORTANT

Scale, such as calcium, magnesium, etc. forms inside the Alkaline (Cleaning) Water Pipe. The use of the alkaline (cleaning) water pipe with scale for a long period of time may prevent the flow of alkaline (cleaning) water, stop the unit or cause poor performance. To prevent scale from accumulating, flush the Alkaline (Cleaning) Water Pipe periodically.

* Flush the Alkaline (Cleaning) Water Pipe at least once a month depending on water quality.

- 1) Follow "III. 1. START UP" and dispense electrolyzed water.
- 2) Open the Door of the unit.
- 3) With the Dispense Button off, press the Flush Button for 5 seconds to light up the Flush Lamp. Then, press the Dispense Button to start a flush cycle. During this operation, alkaline (cleaning) water is dispensed from the Acid (Sanitizing) Water Outlet and acid (sanitizing) water from the Alkaline (Cleaning) Water Outlet.

Note: When using the Remote Controller, be sure to check the Electrolyzed Water Lamp since the lower lamps will turn on. For the Water Tank, drain water from both Water Tanks in advance since the opposite water will be stored.



- 4) Dispense electrolyzed water for 2 hours [flushing time may vary depending on how bad the Alkaline (Cleaning) Water Pipe is clogged]. Continue to dispense electrolyzed water or use the water during the flushing operation.
- 5) To end the flush cycle, press the Flush Button again for 5 seconds with the Dispense Button off. The Flush Lamp will go off and electrolyzed water will be dispensed from the normal outlets indicating normal operation.

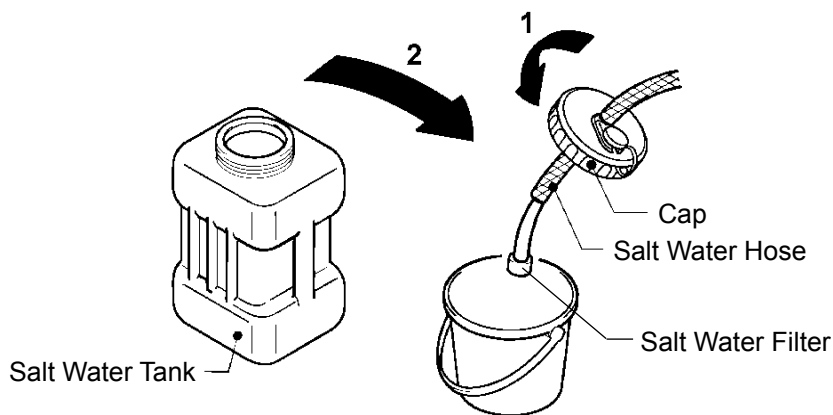
Note: When using the Remote Controller, be sure to check the Electrolyzed Water Lamp since the upper lamps will turn on. For the Water Tank, drain water from both Water Tanks in advance since the opposite water will be stored.

3. CLEANING SALT WATER FILTER AND SALT WATER TANK

CAUTION

For cleaning and inspection, turn the power switch off and unplug the unit. There may be water in parts, which may cause an electric shock or burn.

- 1) Prepare the Salt Water Tank. Remove the Salt Water Hose and Cap from the Salt Water Tank when using the Accessory Salt Water Tank.



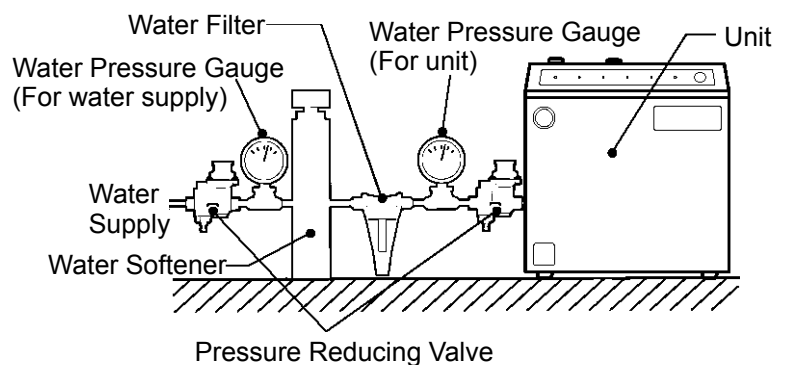
- 2) Rinse the Salt Water Filter attached to the Salt Water Hose with warm water and remove dirt and dust from the Salt Water Filter.
- 3) Clean the Salt Water Tank with a neutral detergent and remove salt lumps, dust, etc. Rinse the Salt Water Tank well.
- 4) Wipe off the Salt Water Tank.
- 5) Put the Salt Water Hose with the Salt Water Filter through the Cap and push in the Salt Water Hose until the Stopper hits the Cap. In case of using a larger tank, install the Salt Water Hose so that the Salt Water Filter on the Salt Water Hose can reach the bottom of the tank.

4. CHECKING WATER SOFTENER

- * Check that water from the Water Softener is soft.
- * Check that there is enough salt for regeneration in the Water Softener.
- * For other instructions, follow the instruction manual for the Water Softener.

5. CHECKING WATER FILTER

- * The Water Filter should be installed as illustrated.
- * Measure pressure on the water supply side and unit side. Contact an authorized Hoshizaki service company for a filter change if the pressure difference is over 0.1 MPa (15 PSIG).



6. EXTERIOR

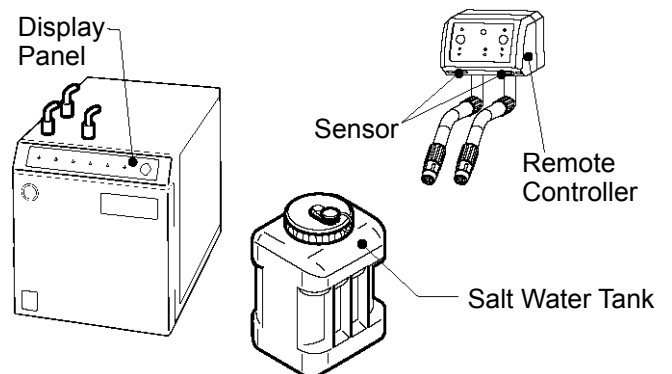
CAUTION

Do not splash water directly onto the unit. It may cause a short circuit, electric shock, corrosion or failure.

IMPORTANT

Do not use thinner, benzine, alcohol, petroleum, powder soap, polish, alkaline detergent, acid or pot cleaner. They may damage the painted or plastic surfaces.

- 1) Wipe off the unit with warm water. If a neutral detergent is used to wipe off the unit, wipe off again with warm water.
- 2) The Display Panel, Salt Water Tank and Remote Controller are plastic. Do not hit or scratch with a sharp knife, etc.



7. PREPARING WATER ELECTROLYZER FOR LONG STORAGE

CAUTION

Remove water from the unit if the unit is not used for more than a week. Foul water may damage the unit.

IMPORTANT

Before operating the water electrolyzer next time, check that the Drain Valve is closed and open the Water Supply Line Shut-off Valve.

- 1) Follow the "III. 2. SHUT DOWN" and shut down the unit.
- 2) Close the Water Supply Line Shut-off Valve.
- 3) Drain salt water from the Salt Water Tank and rinse the inside the Salt Water Tank to remove salt completely with tap water.
- 4) Fill the Salt Water Tank with tap water and connect the Salt Water Hose.

- 5) Follow the “II. 3. PURGING SALT WATER SUPPLY PUMP” to wash the salt water circuit with tap water. Keep the water running for at least 3 minutes.
- 6) Disconnect the Salt Water Hose from the Salt Water Tank and drain the hose. Wipe out the Salt Water Hose and Salt Water Filter with a clean cloth.
- 7) Drain the water from the Salt Water Tank.
- 8) Turn the power switch off and close the Door.
- 9) Open the Drain Valve on the back of the unit or remove the Drain Cap to drain the remaining water.
- 10) Open the Water Supply Line Drain Valve.

V. TROUBLE SHOOTING

1. WHEN ELECTROLYTIC CELL REPLACE LAMP IS ON

IMPORTANT

To maintain effective performance of electrolyzed water, change the electrolytic cell every 3000 operating hours (frequency for changing may vary depending on water quality). Contact an authorized Hoshizaki service company when the Electrolytic Cell Replace Lamp is on.

- * The Electrolytic Cell Replace Lamp starts flashing when the operation of the unit reaches 2900 hours. Electrolyzed water can still be dispensed.
- * When the unit reaches 3000 hours, the Electrolytic Cell Replace Lamp stays on and the Error Lamp starts flashing. Be sure to contact an authorized Hoshizaki service company.

2. WHEN ADD SALT LAMP IS ON

IMPORTANT

Contact an authorized Hoshizaki service company when problems cannot be handled by a user.

- * When the Add Salt Lamp on the Display Panel is on, follow “II. 2. MAKING SALT WATER” and add salt water to the Salt Water Tank. See the following for details.

Lamp	Error Code	Possible Cause and Remedy
Add Salt Water	None	Not sufficient salt water. (1) Is salt water in the Salt Water Tank low? See “II. 2. MAKING SALT WATER” and add salt water to the tank.
		The amperage to the Cell is below the set value (10A at shipping) and the speed of the Salt Water Supply Pump is abnormally high. (1) Is the salt water concentration too low? Add salt to the Salt Water Tank and adjust the concentration. (2) Is salt accumulating on the bottom of the Salt Water Tank? Is the salt water concentration even in the Salt Water Tank? Break lumps in the Salt Water Tank and adjust the concentration.

Lamp	Error Code	Possible Cause and Remedy
Add Salt Water	None	<p>(3) Is the Salt Water Hose free of air? Follow "II. 3. PURGING SALT WATER SUPPLY PUMP" and purge the Salt Water Hose.</p> <p>(4) Is the Salt Water Filter on the end of the Salt Water Hose free of dirt or dust? Remove dirt and dust from the Salt Water Filter.</p> <p>(5) Is the Salt Water Hose free of salt lumps, etc.? Remove the cause that is blocking the Salt Water Hose.</p> <p>(6) Are hoses connected with the outlets of the Remote Controller? Disconnect the hoses to maintain the balance of the electrolyzed water flow rate.</p> <p>(7) Is the electrolyzed water flow rate too high? Adjust the water pressure on the primary side. Make sure that the Pressure Reducing Valve is correctly installed.</p>

3. WHEN ERROR LAMP IS ON

WARNING

1. To prevent an electric shock, do not touch the Attachment Plug, Power Switch, or other electrical parts with damp hands.
2. When abnormal situations occur, turn the Power Switch off and unplug the unit or turn off the main power and contact an authorized Hoshizaki service company. Continuous operation with problems may cause an electric shock or fire.

- 1) If the Error Lamp on the Display Panel is on, open the Door of the unit.
- 2) Check an error code in the Display Window. There are error codes for "Contact authorized Hoshizaki service company immediately" and "Check by user".

[a] CONTACT AUTHORIZED HOSHIZAKI SERVICE COMPANY

Lamp	Error Code	Possible Cause and Remedy
Error	E14	Defective Water Valve. Repair or replace.
	E53	Defective HE Relay. Repair or replace.
	E61	Defective Flow Switching Valve. Repair or replace.
None	E74	Defective Thermistor. Repair or replace.
	E82	Defective Float Switch. Repair or replace.

* When the Error Lamp and/or Error Code are on, turn off the power switch and contact an authorized Hoshizaki service company.

[b] CHECK BY USER

Lamp	Error Code	Possible Cause and Remedy
Error	E11	<p>Not sufficient water supply.</p> <p>(1) Is the Water Supply securely connected? Resume water supply.</p> <p>(2) Are the outlets for electrolyzed water clearly open? Remove the cause(s) that is closing the outlets.</p> <p>(3) Are hoses to connect the unit with Remote Controller or Water Tank bent ? Remove the cause(s) that is bending the hoses.</p> <p>(4) Is the Water Valve (water supply inlet) free of dirt or dust? Remove dirt or dust and resume water supply.</p> <p>(5) Is the Alkaline (Cleaning) Water Pipe free of scale? Follow “IV. 2. FLUSHING ALKALINE (CLEANING) WATER PIPE” and flush the pipe.</p> <p>(6) Is the water circuit inside the unit clear? Remove the cause(s) that is blocking the water circuit.</p>

* Follow the above check items and inspect the unit. After inspection, turn the Power Switch on the Control Panel on and start the unit. If problems persist, turn the Power Switch off and contact an authorized Hoshizaki service company immediately.

4. PROBLEMS WITHOUT ALARM INDICATION

1) Unit fails to operate:

- (1) Power failure. Wait until power supply is resumed.
- (2) Unplugged. Plug in the unit.

2) Noise:

- (1) Noise from water supply and pump. This is normal.
- (2) Installed on an unsteady floor. Contact an authorized Hoshizaki service company.
- (3) Not leveled in the left-to-right or front-to-rear directions. Contact an authorized Hoshizaki service company.

VI. DAILY INSPECTION SHEET

* Make copies of this page.

Date									
Time									
pH	Acid water								
	Alkaline water								
Available chlorine concentration (mg/L)									
Water supply temp. (°F) or (°C)									
Cell operating time (h)									
Responsible person									

Date									
Time									
pH	Acid water								
	Alkaline water								
Available chlorine concentration (mg/L)									
Water supply temp. (°F) or (°C)									
Cell operating time (h)									
Responsible person									

Date									
Time									
pH	Acid water								
	Alkaline water								
Available chlorine concentration (mg/L)									
Water supply temp. (°F) or (°C)									
Cell operating time (h)									
Responsible person									

Date									
Time									
pH	Acid water								
	Alkaline water								
Available chlorine concentration (mg/L)									
Water supply temp. (°F) or (°C)									
Cell operating time (h)									
Responsible person									

Date									
Time									
pH	Acid water								
	Alkaline water								
Available chlorine concentration (mg/L)									
Water supply temp. (°F) or (°C)									
Cell operating time (h)									
Responsible person									