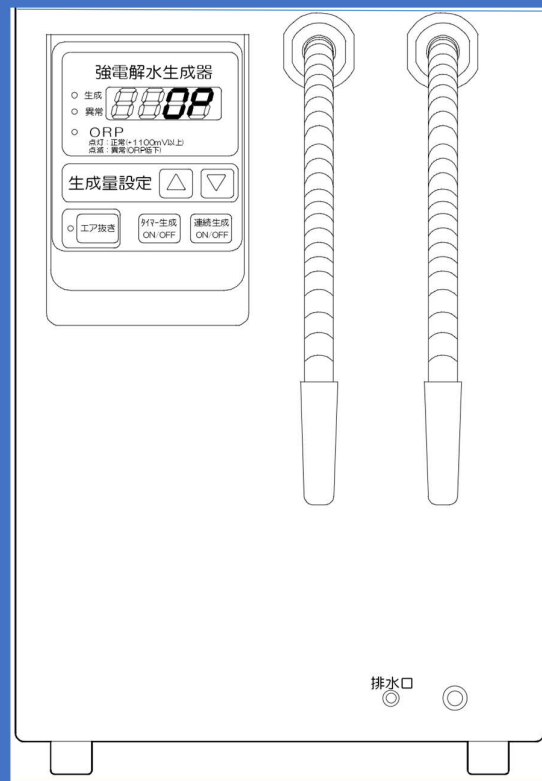


Palm Beach Springs Water Company Inc.
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ALTRON MODEL AL-761-N INSTRUCTION MANUAL



We sincerely appreciate your purchase of this electrolysis unit. In order to ensure total safety in the operation of this unit, kindly read the instruction manual with all of its warnings and cautions.

Please keep this instruction manual handy for close reference

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1. IMPORTANT SAFEGUARDS:

When using electrical products, especially when children are present, basic safety precautions should always be followed, including the following:

2. READ ALL INSTRUCTIONS BEFORE USING:

- (1) Do not place or store product where it can fall or be pulled into a tub or sink.
- (2) Do not place in or drop into water or any other liquid.
- (3) Do not reach for a product which has fallen into water. Unplug immediately.
- (4) Do not input DC voltage.
- (5) Do not touch the AC plug and cord with wet hands.
- (6) Do not damage the AC cord.
- (7) Do not use AC multiple-outlets for power source.
- (8) Do not place hands inside the unit.
- (9) Do not repair or remodel the unit by yourself.
- (10) Do not pour water into the unit.
- (11) Close supervision is necessary when this product used by or near children or handicapped people.
- (12) Use this product only for its intended use as described in this manual. Do not use attachments not recommended by the manufacturer.
- (13) Never operate this product if it has a damaged cord or plug or if it is not working properly or if it has been dropped or damaged, or dropped into water.
- (14) Return the product to a service center for examination and repair. Do not make any repairs to this unit unless they are superficial repairs.
- (15) Keep the cord away from heated surfaces.
- (16) Never block the air openings of the product or place it on a soft surface, such as a bed or couch, where the air openings may be blocked. Keep the air openings free of lint, hair and the like.
- (16) Never drop or insert any object into any opening or hose.
- (17) Do not use the unit outdoors or operate where aerosol

(spray) products are being used or where oxygen is being administered.

- (18) Connect this unit to a properly grounded outlet only.
- (19) Do not place a kink into the AC cord.
- (20) Do not unplug by pulling the AC cord.
- (21) Do not wash the unit by water or other liquids.
- (22) Do not pour water into the unit.
- (23) Do not set the unit in an unstable place or an inclined place.
- (24) Do not install the unit near a fire source, direct sunlight, in a freezing zone, a dirty place, a wet place or where corrosive gas is present.
- (25) Do not use the unit in a closed area since gases such as hydrogen and chloride are generated while electrolysis is in operation. Please use the unit in a well-ventilated place and keep out of close proximity of a fire source.
- (26) Do not directly inhale gas in the electrolyzed liquid stored tank.

DANGER: To reduce the risk of electrocution:

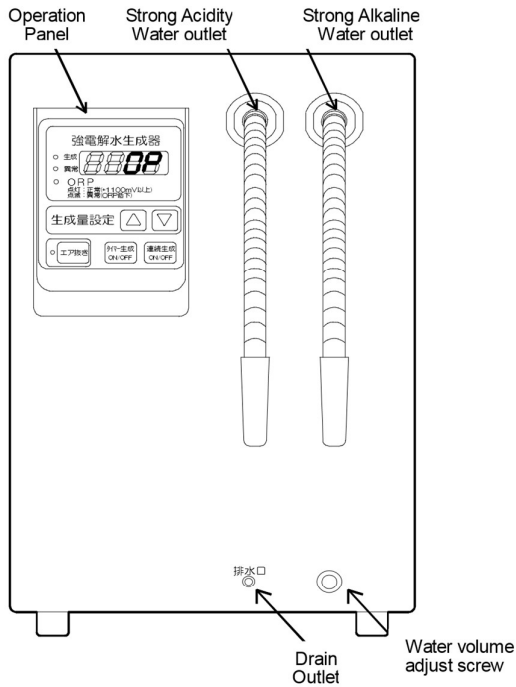
WARNING: To reduce the risk of burns, electrocution, fire, or injury to person:

- (1) The water to be used in this unit should be suitable for drinking.
- (2) Do not use salty water, underground water, dirty water, high hardness water and rust water to avoid the unit from damage.
- (3) Please consult your doctor when electrolyzed water comes into contact with one's eye.
- (4) Please consult your electrical contractor when electric work is required.
- (5) Do not use hot water more than 40 centigrade.
- (6) Do not close any water outlet.
- (7) Do not use extra tubing for electrolysis agent tank.
- (8) Do not place any heavy items onto the unit.
- (9) Do not use any inappropriate containers for holding of the acidic

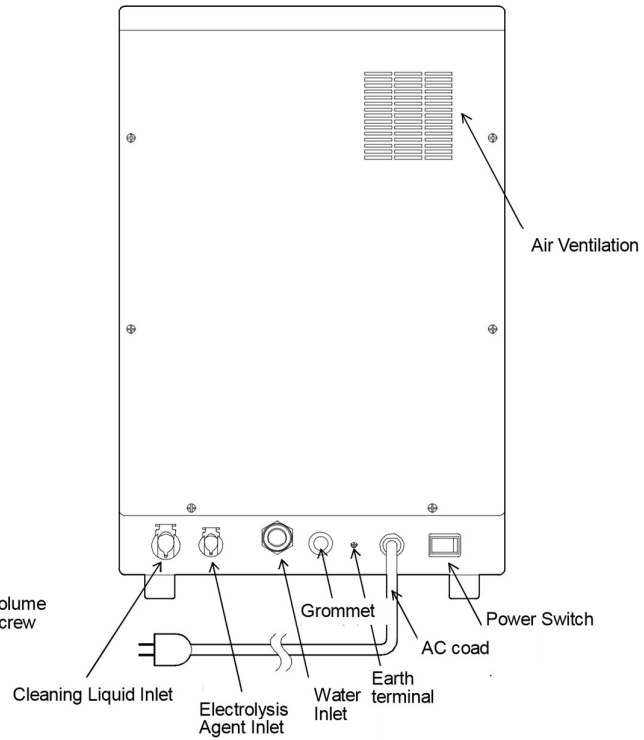
and alkaline waters.

- (10) Do not use electrolyzed water for breeding water such as goldfish or tropical fish.
- (11) Please ask your doctor before handling electrolyzed water such as a person with sensitive skin or for a person with an allergic constitution.

Front side view



Backside view



Operation Panel

Process Lamp
Turn on while processing
Blinking when abnormal

Turn on when abnormal

ORP Lamp
Turn on while acidity water has ORP more than +1100mV
Blinking when under +1100mV

Air draw button
Press for air drawing

Air draw lamp
Turn on while air drawing

Segment Display

- Normally displaying preset value.
- Displaying remained value while Timer Mode processing
- Displaying OP while Continuance Mode processing
- Displaying error code in case of error conditions.

Preset value up/down button

- Presentable by up▲ button and down▼ button for up/down
- Short click can make 1 liter up and down.
- Long click can make 10 liter up

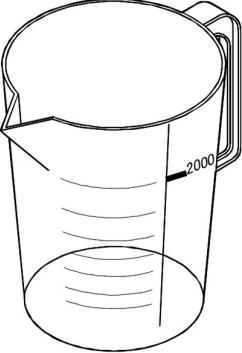
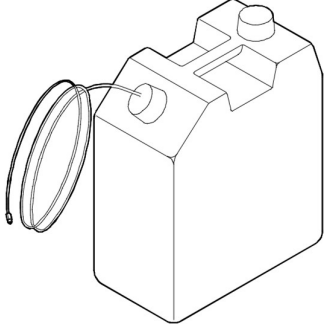
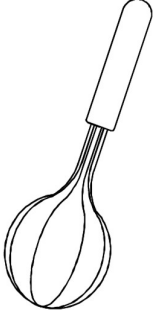
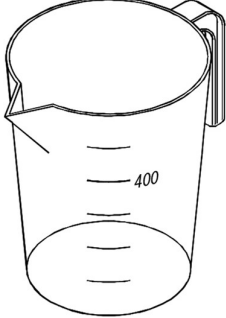
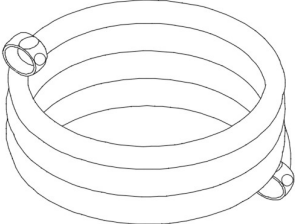
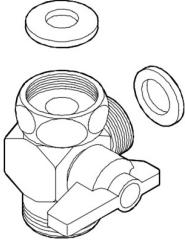
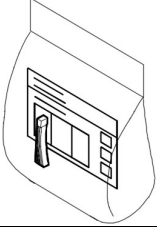
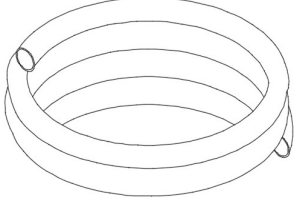

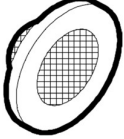
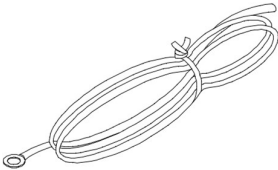
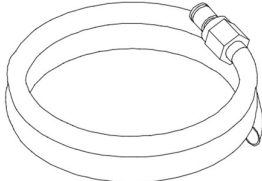
Timer Mode button

Press when Timer mode process start.
Press again to stop process.

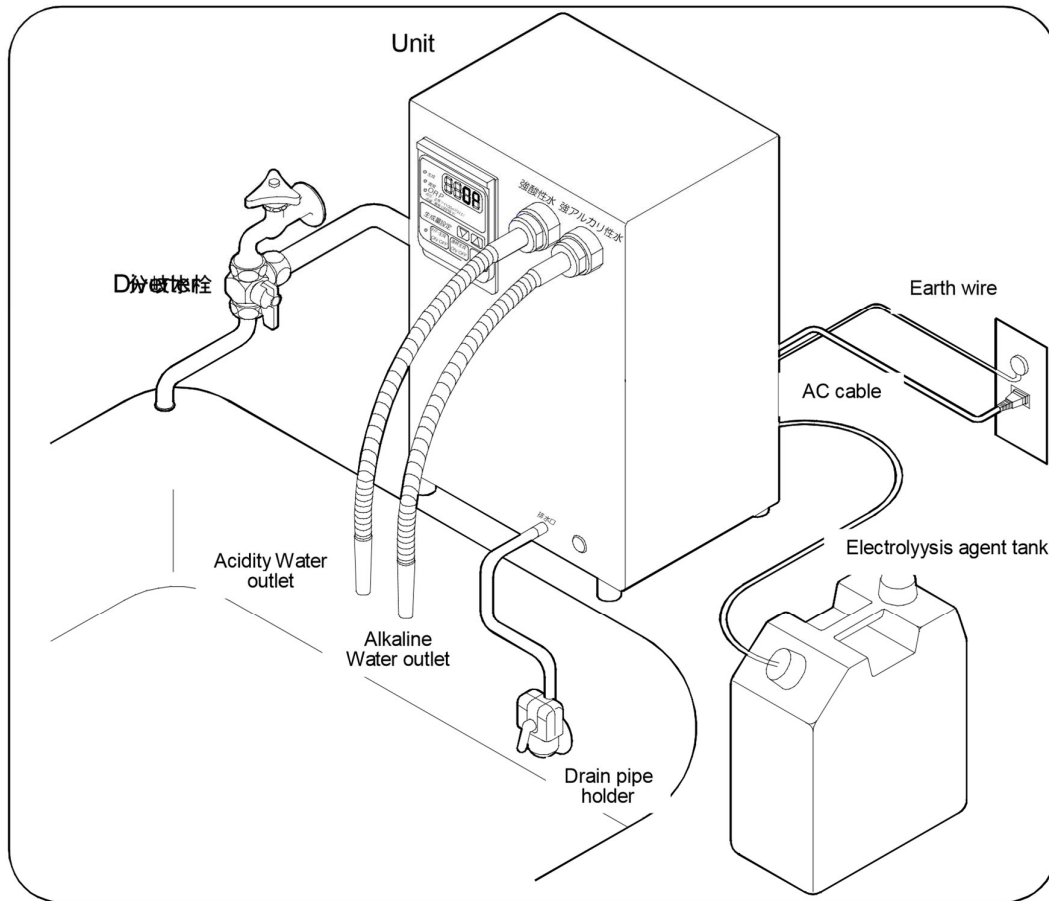
Continuance Mode button

Press when continuance process start.
Press again to stop process

COMPONENTS INCLUDED WITH THE MAIN UNIT:

<p>Large measuring cup 1pc</p>	<p>Salt water tank (Electrolysis agent tank) 1pc</p>	<p>Mixing bar 1pc</p>
		
<p>Measure cup small for salt 1pc</p>	<p>Water inlet pipe with cap-nut 1pc</p>	<p>Diverter 1pc</p>
	 <p>(with packing for each cap nut)</p>	 <p>(Packing large and small for each 1pc)</p>
<p>Strong electrolyzed water check paper sheet set 1pack</p>	<p>Drainpipe 1pc</p>	<p>Drainpipe holder 1pc</p>
		
<p>Metal mesh filter 1pc</p>	<p>Earth wire 1pc</p>	<p>Water pulling hose</p>
		 <p>With joint connector</p>

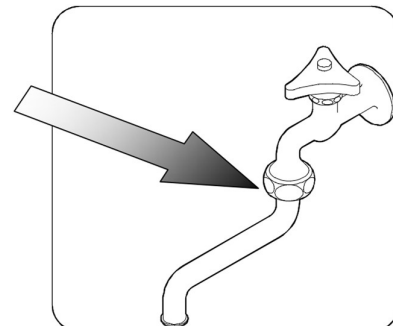
INSTALLATION METHOD (1):



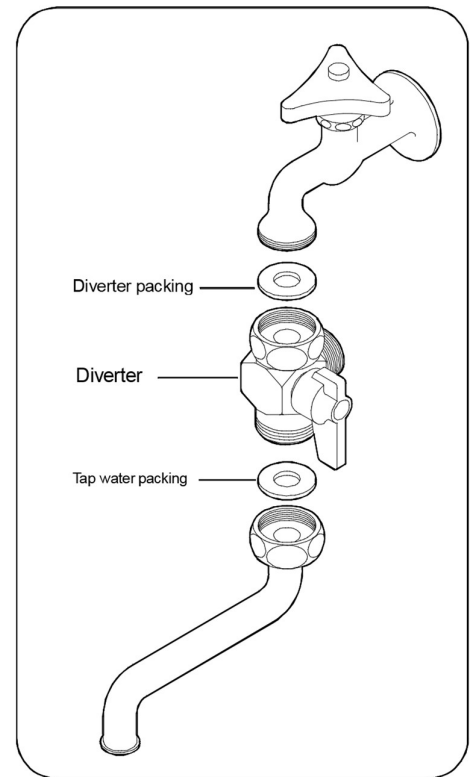
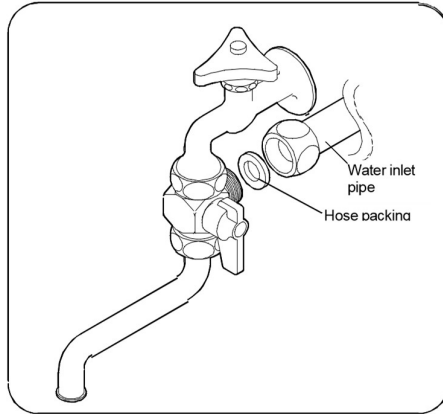
INSTALLATION METHOD (2):

● Connection of diverter

1. Close the tap water.
2. Detach the cap by wrench for arrow point.
Do not lose the gasket material.
3. Assemble diverter to follow draining and adjust the diverter angle and then assemble pipe with pipe gasket.



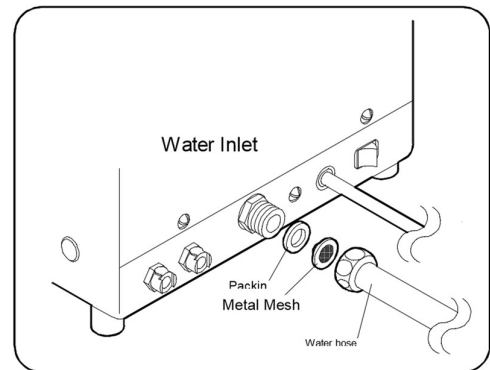
- Please secure the inlet pipe nut with packing to the diverter by utilizing a wrench.



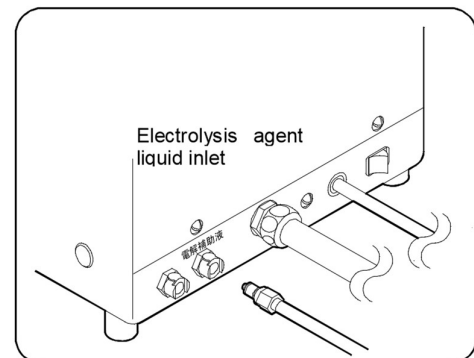
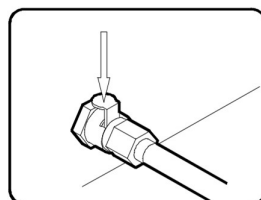
PIPE CONNECTION:

- Before piping to the unit, take off the cap on the water inlet position and drain position. Assemble water inlet pipe, packing, metal mesh screen and inlet pipe cap by using a wrench correctly to the back side.

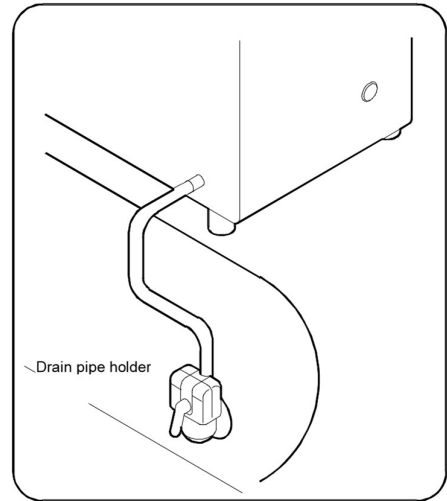
Connect tube connector on the back side electrolysis agent (salt water) inlet position with confirming click sound.



Press small nail on the electrolysis agent liquid inlet for de-touching tube.

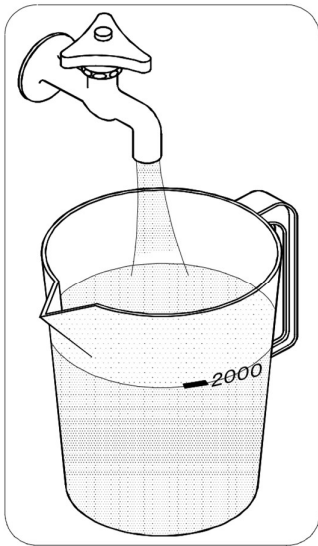


Connect the drainpipe to drain outlet unit then, connect other end of drainpipe to the drain outlet on the front side.



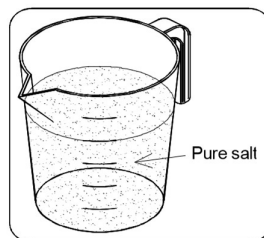
HOW TO CREATE THE ELECTROLYSIS AGENT:

1. Prepare both measuring cups (large, small) with pure salt (NaCl)
 - Fill tap water until measure line, 2000 in the large measuring cup.
 - Measure pure salt until measure line. 400 in the small measuring cup and mix it into the large cup.

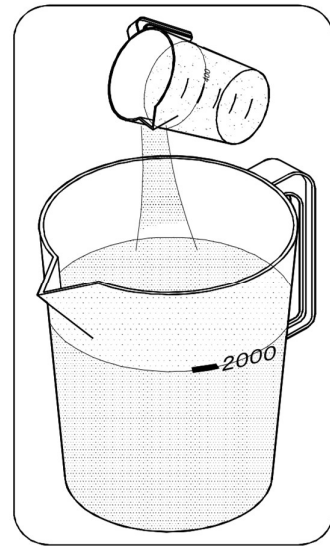


Fill the tap water to measure line, 2000.

Please use pure salt(NaCl) more than 99% purity is required to avoid machine unit trouble. Do not use table salt, rock salt which contained some minerals.



Fill the pure salt to measure line, 400.

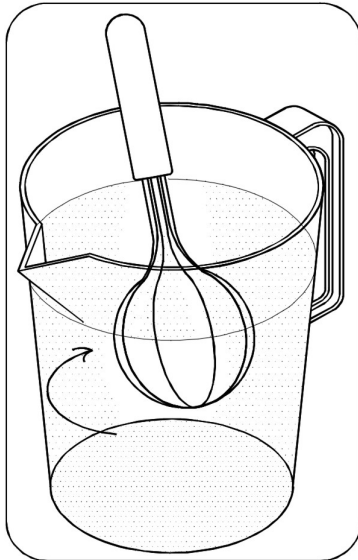


2. Mixing by mix bar

Mixing the pure salt until it is a clean solution.
The electrolysis agent has been made.

3. Storing to the Salt water Tank

Transfer to salt water tank this salt
water.
Hereafter salt water call electrolysis
agent.
The tank can store 2 cup of electrolysis
agent.



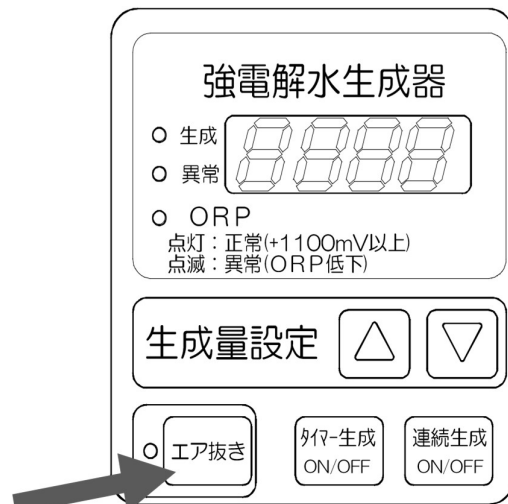
● HOW TO REMOVE AIR FROM THE WATERWAY:

It is necessary to perform the air drawing step for the following situations:

- Initial use
- Error indication *E – 2*
- Air was mixed in to electrolysis agent supply tube
- Electrolysis agent tank went to empty and new agent supplied

Air drawing of pump.

- 1) Turn the diverter lever horizontal and then turn the water on.
- 2) Power on and check the display panel indicating processing value.
- 3) Open the operation panel and press air draw button.
 - * Air drawing lamp will come on and the air drawing operation will start.
 - * Air drawing operation takes around 6 minutes to complete.
 - * If the process is interrupted, press the air draw button again.
 - * No operational button will work during the air drawing process.
- 4) Air drawing operation will stop automatically after the air drawing process is finished.
 - * Water will run out from outlet position for a maximum of 40 seconds before the drain operation finishes.
 - * Water will stop after the air drawing operation and the air draw lamp will shut off..
 - * While air drawing, the outlet water should not be used for any purpose.
 - * If the E-2 indicator comes on, an empty electrolysis agent liquid condition may exist and terminating the air drawing process.



When the error condition E2 is indicated, please follow the steps below:

- ① Is there an adequate amount of Electrolysis agent?
- ② Check the tube connection between electrolysis agent tank and the

- unit liquid inlet for any obstructions.
- ③ Check the strainer to ensure the tubing is under the liquid level.
- ④ Re-start again the Air drawing operation.

Caution:

1. In case the Electrolysis agent liquid tank is located higher than the unit, the tank should be moved to a lower position than the unit.

OPERATIONAL STEPS:

How to produce strong electrolyzed water

- Connect the grounding wire and connect the AC cable connect to the wall power outlet and turn on power switch located backside.

Warning:

Make sure the grounding wire is correctly secured otherwise there is a possibility of an electrical shock hazard.

Do not handle the AC cable with wet hands otherwise there is a possibility of an electrical shock hazard.

After the Power is turned on a display will appear as *Chn9*



Turn the diverter position horizontal then turn on tap water. ● Conduct the air drawing operation. (Refer to air drawing operation on the previous page.)

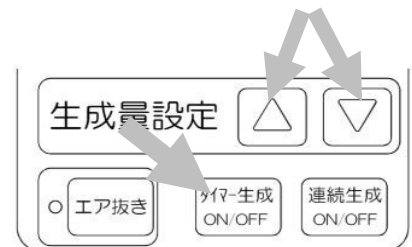
1. Continuance Mode

- Press Continuance Mode button or remote switch (option). Process lamp will turn on and start strong electrolysis processing.
- Press again the Continuance Mode button or remote switch (option) for process stop.



2. Timer Mode

- Please set your required process value by value button▲▼. (minimum of 0.5 liter, maximum of 60 liters)
- Press Timer Mode button. Process lamp will turn on and start strong electrolysis processing.



the Press again the start switch for process stop or automatically process will be stopped after process remained preset process value on display.

※The processing operation will be stopped after a few seconds from start due to an imperfection to the air drawing process while showing *E-2*.

In this case, press the Air Draw button again to restart the air drawing process.

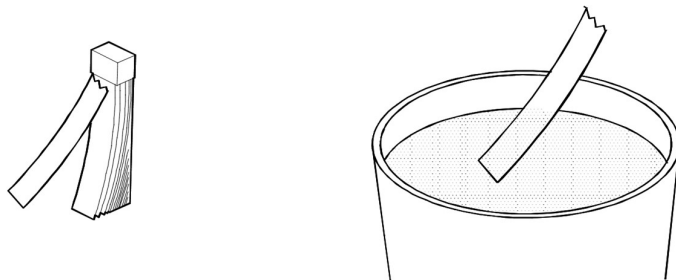
※To avoid mineral build up in the unit inside, the unit will change electrolysis water pass for every 1 hour process sequence and the process operation will pause its operation while displaying *Chng* for around 20 seconds.

- On the initial operation, please carefully check for any water leakage around the diverter and connection points. If water leakage is noted, please stop the process and fix the incorrect situation. If you find something that has failed, press process button for process to stop and close water run. Check the pipe connection, packing and please try again from the first step.

HOW TO USE THE TEST PAPER (IODIDE POTASSIUM STARCH PAPER) FOR DETERMINING THAT A STRON ELECTROLYZED WATER HAS BEEN PRODUCED:

A simple test method is using the attached iodide potassium starch test paper.

Take one strip of test paper and gently put it in the strong acidic water and compare it to the color test sheet. If the color is lighter than what is indicated on the color test sheet, mix more pure salt, over the 400 line, for the electrolysis agent liquid.



- ① Showing violet color indicates that the water has been suitably electrolyzed.
- ② Showing a darker coloring than the test sheet indicates a stronger electrolyzed water has been produced. In order to correct this condition, please dilute the electrolysis agent

liquid with a small amount of tap water to dilute the salt concentration.

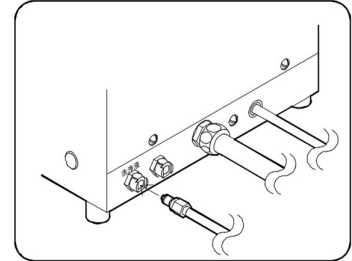
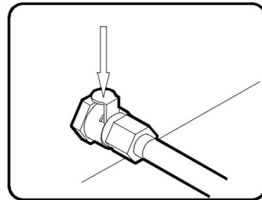
In order to remove water out from the unit:

Connect water pulling hose to the cleaning liquid inlet.

Inside water of the unit will draw out from water pulling hose.

In this operation, please open both the alkaline hose and acidity hose.

Press small nail on the cleaning liquid inlet for detaching the tube.



HOW TO CONNECT THE FLOAT SWITCH OR REMOTE SWITCH OPTION:

※ Use the float switch with the point of contact.

When fill the tank--- open, When empty the tank---open ※

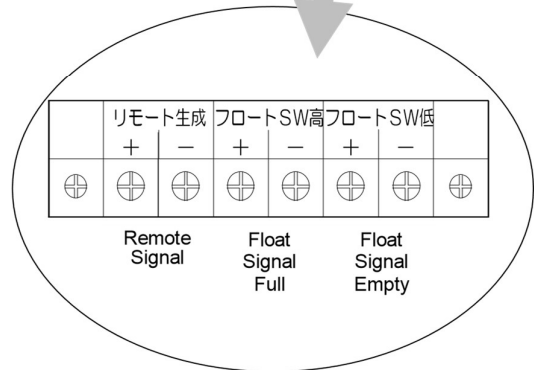
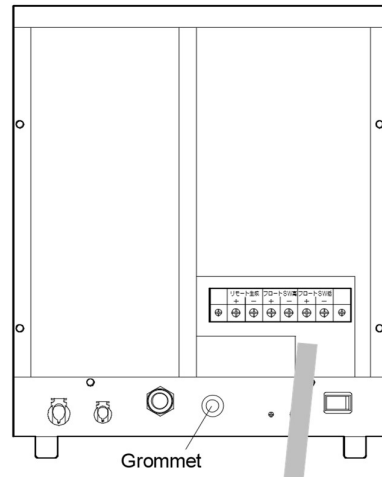
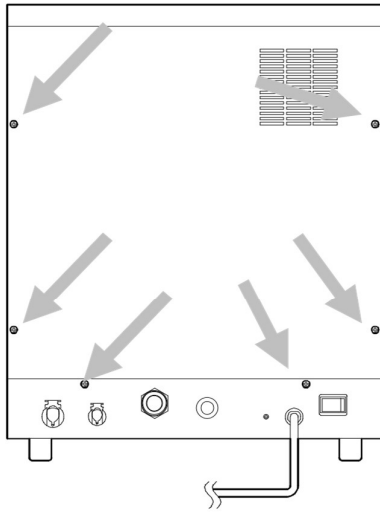
Use the remote switch with momentary type.

Warning:

When connecting the switch, make sure the power switch is OFF.

Do not pour water inside of the unit.

1. Remove six screws of rear panel and remove the rear panel.
2. Lead the electric wire of switch into the grommet.(Please slash center of the grommet with knife.)
3. Connect the float switch harness
Terminal board (Center) ---- detects the full signal
Terminal board (Right side) ---- detects the empty signal
4. Connect the remote switch harness
Terminal board (Left side) ---- detect signal of remote



Close Up

● Simple to use **TROUBLE SHOOTING Q & A:**

Indication sign	<u>Main cause(s)</u>	<u>Required action</u>
Does not power on	Loose AC plug connection.	Put on the AC plug correctly.
	Main power switch is off.	Turn the power switch on.
	Fuse blown.	Have the cause determined.
Displaying E-1	Either the tap water was turned off while processing or the tap water pressure went very low.	Reset the error message pressing the process ON/OFF switch and check tap water valve or diverter lever position and check the water pathways.
	Clogged water inlet metal mesh screen	Reset the error message pressing the process ON/OFF switch and take off clog from the metal mesh screen after powering off the unit and detaching the water inlet pipe.
Displaying E-2	No electrolysis agent water or air was mixed in the tube.	Add the agent liquid to the tank, and operate air-draining operation.
Displaying CLEA	Over 2 hours operation	Manual cleaning operation required
Displaying E-3 or E-5		Turn the power off and a few seconds later, turn the unit on again. .
Displaying E-4	The operational life of the electrolysis chamber has expired.	Contact your agent.
Alkaline water volume went low	A buildup of minerals have taken place in the alkaline water way.	Manual cleaning required.
Both outlet waters went low in flow volume	Low tap water flow volume going into the unit.	Open tap water valve more and
	Clogged by dust on the metal mesh screen, which is located between the water in pipe and water inlet.	Power off and detach the water in pipe after tap water closed. Take off the clog from the metal mesh screen.
	Clogged inside filter	Contact your agent.

Improper pH value or does not turn on ORP lamp.	The water flow volume is too high.	Adjust the water inlet volume.
	Low salt water concentration	Remake the electrolysis water agent with a higher level of salt.
Displaying E-6	Trouble with Float switch	Contact your agent.
Water leakage coming out from outlet without process operation.	A clog has developed in the magnetic valve located inside the unit.	Contact your agent.

Error codes can be canceled by pressing the Continuance Process button. The E-6 code cannot be reset in this manner.

● SPECIFICATION:

Machine designation	Strong electrolysis water processor
Model name	ALTRON·AL-761N
Dimensions	281(W) x 218(D) x 394(H) mm around 10.5Kg
Power rating	AC 100V 50/60Hz
Power Current	3.2 A
Operating temp	0 ~ 40 °C (Does not allow for frozen condition)
Operating humidity	0 ~ 85%RH
Supply water quality	Tap water quality.
Supply water temp.	0 ~ 40°C
Acceptable water pressure	0.1 ~ 0.59Mpa (1 ~ 6 Kgf/cm ²)
Electrolyze method	Continuous flow water electrolyzer with membrane
Operation hours	Maximum of 8 hours.
Process capacity	Approximately. 1 liter per minute both acidic and alkaline.
Electrode life	Around 2,000 hours but dependent upon water characteristics, such as water hardness.
Cleaning	Automated cleaning process initiated for each 2 hours of use by changing electrode polarities.

● **MAINTENANCE SERVICE AND WARRANTY CARD:**

Warranty Card: Card must be completed by the sales agent and submitted to the manufacturer for warranty acknowledgement.

Warranty term: One year after purchase.

Maintenance service: Please ask your purchasing agent.

Paul E. Seaver

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