



AquaCure®

Model AC60



Operation Manual

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Owners of AquaCure AC60 may download and/or print one copy of the online manual for their own personal use.

Uses of the AquaCure also include applications for plants, aquariums, animal care, mini-torch fuel, and other non-medical environments.

DISCLAIMERS

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- changes made to our products by users or owners without written authorization.

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CAUTION!!



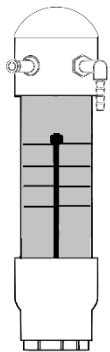
All Brown's Gas (aka Hydroxy, HHO) electrolyzers, including the AquaCure, generate a mixture of hydrogen and oxygen gases that are combustible and potentially explosive. The alkaline solution of Sodium Hydroxide (lye) that is used as a catalyst in the machine for efficient electrolysis is corrosive and can cause chemical burns. It is recommended that you follow safety precautions when working with the lye solution and powder.

- **DO NOT** ingest (drink) the Lye Mixture, keep away from children.
 - Label stored containers with appropriate labels.
- Wear nitrile or rubber gloves
- Do not inhale the airborne lye particles or the gas emitted during mixing.
- Always mix in a well-ventilated area. Outside or vented stovetop
- Keep off your skin and any other surfaces. If the dry powder gets on your skin, brush it off into the sink and then rinse with tap water until the slippery feeling goes away. If lye is spilled; use a dry cloth, wipe the powder from the surface into a container, then use a wet cloth or sponge to clean the area until "squeaky clean"
- Do not smoke or have an open flame while using any hydrogen generator

Safety reminders are included in the instructions that follow.

AquaCure AC60 Brown's Gas Generator Manual

Included in Accessories Box



TOWER CAP (TCP)



POWER CORD



BRACKETS for HUM & DWJ



HUMIDIFIER TANK (HUM)



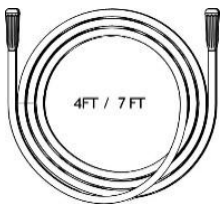
DRINKING WATER JAR (DWJ)



TOWEL



HUMIDIFIER HOSE



4 foot and 7 foot hose

AquaCure AC60 Brown's Gas Generator Manual

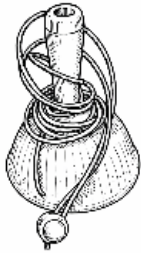
Included in Accessories Box Continued



TDS METER



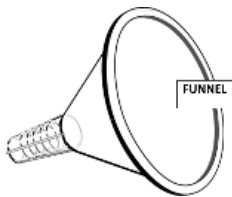
GLOVES



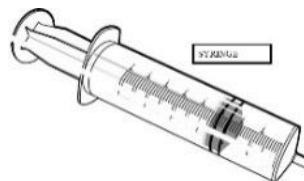
SPOT APPLICATOR



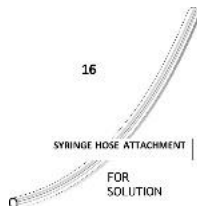
GOGGLES



PLASTIC FUNNEL



SYRINGE (no needle)



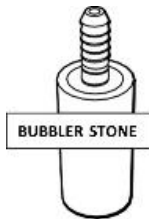
SYRINGE HOSE ATTACHMENT



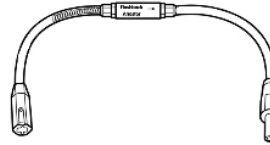
TEE FOR SHARING

AquaCure AC60 Brown's Gas Generator Manual

Included in Accessories Box Continued



BUBBLER STONE



*FLASHBACK
ARRESTOR*



DRAIN HOSE



MINI TORCH KIT

Not Shown: Cannula, Electrolyte (Sodium Hydroxide)

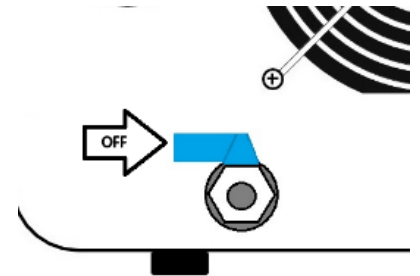
Pre-Filling Rinse and LED Check

Complete the rinse once or twice to dissolve any lye crystals

1. Remove the black Water Fill Cap from the top of the AC60.

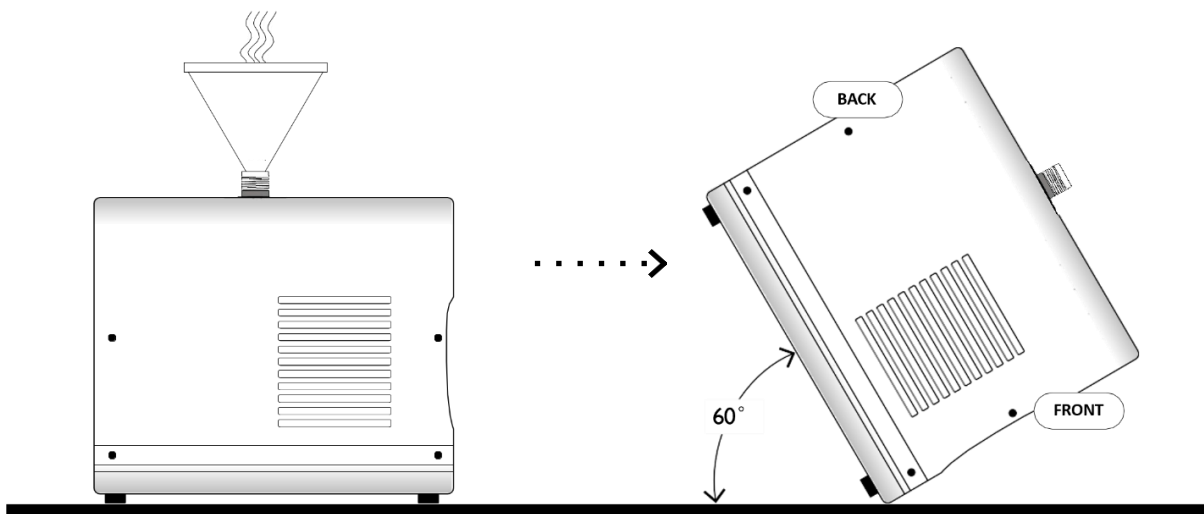


2. Verify the drain valve is in the off position and the white silicone plug is still inside. Do not open this valve unless draining. Keep children away from this valve.



3. Use the funnel to fill with 1.5 liters of **HOT** tap water.
Recommended temperature is 140 F.

4. Tilt the machine forward, hold for 10 seconds to fill the inner hoses and then back, hold for 10 seconds for the fluid to flow back through the inner hoses. Tilt several times. You do not have to lift the machine off the counter.



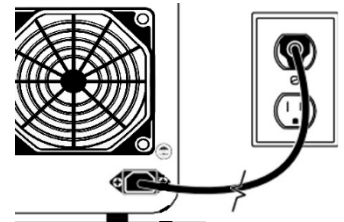
Pre-Filling Rinse and LED check

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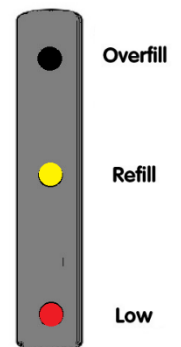
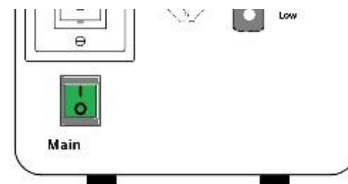
5. To drain the machine, turn it around so the back is towards a sink, bucket, or container.
 - a. Tilt the front of the machine up about 2 inches, you can use a book or block.
 - b. Pull out the silicone plug and put it aside.
 - c. Turn the blue handle on the external drain to open the valve. When the machine is dripping, raise the front of the machine to drain any remaining fluid from the reservoir. Close the valve.
 - d. Wipe the droplets of water off the valve with a cloth before you put the machine upright again. Do the full rinse once or twice to dissolve any lye crystals.

OPTIONAL: A drain hose is included in the package; you can screw that on prior to opening the valve to drain the fluid. Then close the valve before removing the hose. This option will take a little longer to drain.

6. Turn the machine around, plug in the power cord to the lower right socket.



7. Turn the main power by using the green switch on the lower left side of the front of the unit. You will see the yellow 'Refill' and red 'Low' LED lights illuminate.

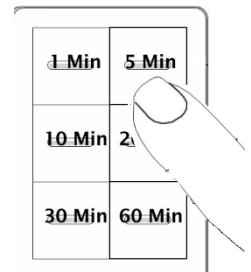


Pro-Tip: Having the power on while pouring in the hot water allows you to check Low, Refill and Overfull lights and alarms.

Pre-Filling Rinse and LED check

continued

8. Press the 5-minute button on the Timer Switch. This will give you enough time to do the level control check.



9. You will hear the audible low-level alarm. Using the funnel, very slowly start pouring hot tap water into the unit. The red 'Low' light will go out and the alarm will stop. Then as you continue to pour, the yellow 'Refill' light will also go out. Pour until the Overfull light turns on and the alarm turns on again.
10. Turn off and unplug the machine. Drain your machine once again. You can use the preinstalled valve on the back of the machine, the drain hose, or turn the unit upside down.
11. Re-install the white silicone plug.

This completes the Pre-Fill Rinse check.

Setting up your AC60

Need from Home: 1-Gallon Distilled water, Large Glass Container (1-2 Liters), and a Stainless-Steel Stirring Utensil (spoon, knife)

1. Fill the glass container with at least 3 cups or 750 mL (half full) of distilled water. Place on a surface that will not be damaged by lye spills. **Wear eye protection, do not leave unattended near children, DO NOT INGEST.**
2. In a well-ventilated area, start stirring the distilled water, using a stainless-steel utensil. As you stir, **slowly** pour 4 tablespoons of LYE into the distilled water. Keep stirring until all crystals are dissolved. The solution may become warm and cloudy. Set aside to allow the solution to cool off and become clear. **Pouring the Lye too fast can cause a splash, spraying you with the solution.**



****You may have received 3 pre-measured Electrolyte packets in this mailing, if so, use one per fill. Keep the sticker to place on stored jars for safety.**

3. Fill the Humidifier with distilled water, to the bottom of the fill line.

Pro-Tip: if using the AquaCure with the Micro Bubbler, reduce water in the Humidifier tank by $\frac{1}{2}$ to $\frac{3}{4}$ inch to reduce pressure. **Overfilling may cause the pressure relief valve to release and “spit” water.**



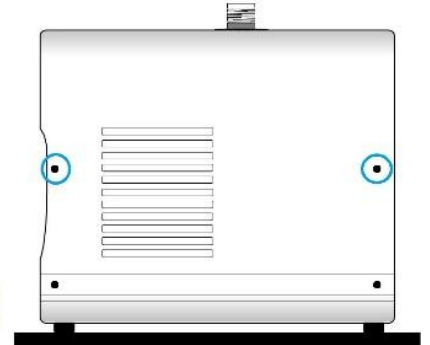
4. Fill the Water Jar with distilled water, to the bottom of the fill line.



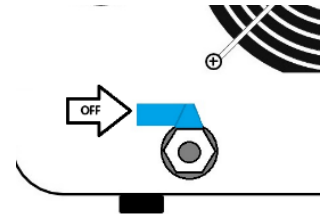
Setting up your AC60

continued

5. Using the black screw from the shell of the machine, install the Humidifier and Water Jar brackets to the machine. For your convenience, the brackets can be placed in any upper screw location on either side of the machine.



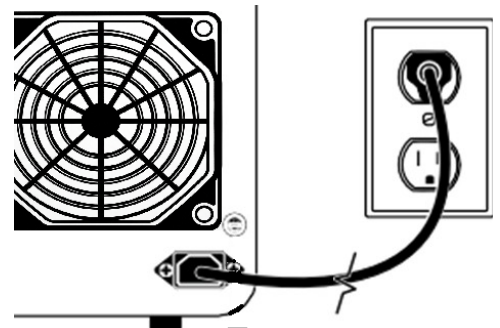
6. Turn the machine around. Ensure the drain valve is in the closed position, and the white plug is still inside



7. Remove the black Water Fill Cap from the top of the AC60. If you completed the Pre-fill rinse, this should already be off.



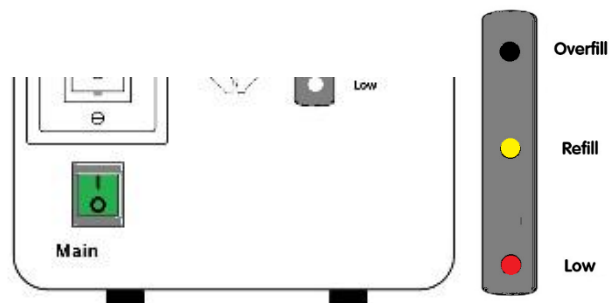
8. Plug the power cord into the back of the unit and into the wall.



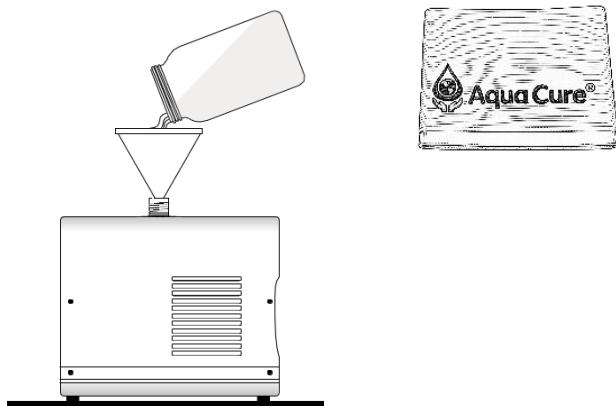
Setting up your AC60

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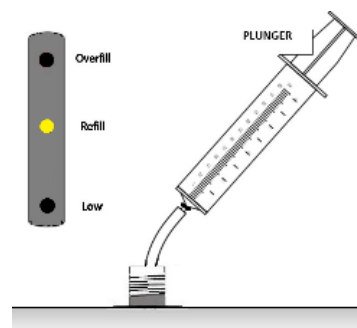
9. Turn on the green main power button on the front lower left side of the machine. The yellow 'Refill' and red 'Low' LED lights will be on.



10. Press the big square on the Timer Switch. Wait a couple of seconds until a minute light turns on, then select 10 minutes. This will give you enough time to finish the fluid fill.
11. Once the Lye solution is clear and cooled, place the plastic funnel in the Water-Fill Tube, wrap the towel around the bottom of the funnel, to soak up any spills. **Slowly** pour the Lye solution inside the machine. Be careful not to spill the fluid. The water level will be delayed as the smaller tubes slow the movement of the fluid to the liquid level sensors. It may take a few seconds for the fluid to catch up and the LED lights to display the accurate fluid level.



12. Once all the solution has been poured into the machine, use the syringe to top it off with distilled water. At most, 5 syringes should turn the yellow light off. Once the yellow light goes out, add 2 more full syringes to bring the level to full. We use the syringe to slow down the filling process to prevent over filling. **Do not overfill.**



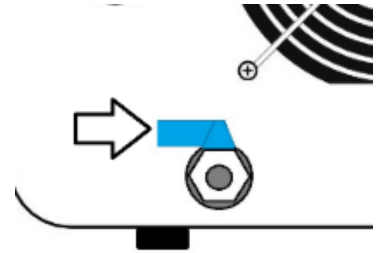
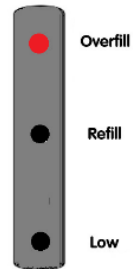
Setting up your AC60

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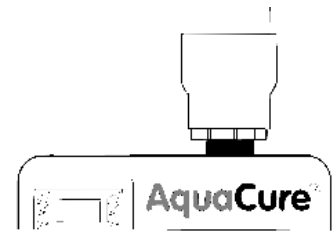
13. If you overfill the machine, there are 3 options to correct it.

1. Lift the front of the AquaCure about an inch or two to turn off the alarm. If only slightly overfilled.
2. Use the syringe to pull the extra fluid out of the electrolyzer.
3. Turn the machine around, remove the white plug, place a jar under the spigot and open the valve. Close the valve when the red light and alarm shut off. Refill Slowly.

Save the extra solution for the next top up. When storing extra lye solution, mark the container with a warning sticker. You can remove the sticker from the Electrolyte Packet and put it on the container you are storing the solution in.

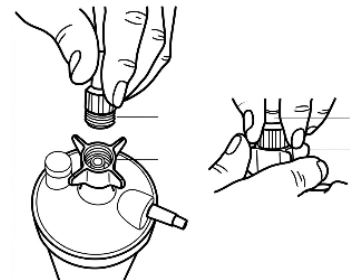


14. Install the Tower Cap directly to the Water Fill Tube. There is no need for Teflon Tape as the new design allows for an easy seal. Turn until snug (provides resistance), then do a quarter turn. **Do not overtighten. Overtightening will destroy the pre-installed washer and may pull the sleeve out, rendering the Tower Cap unusable.**



15. Install the Humidifier hose to the lid of the Humidifier. Twisting the nut until snug.

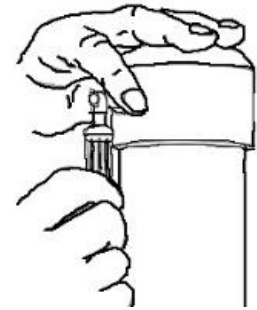
16. Place the Humidifier into the smaller bracket.



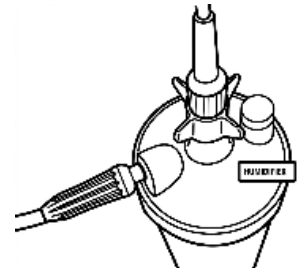
Setting up your AC60

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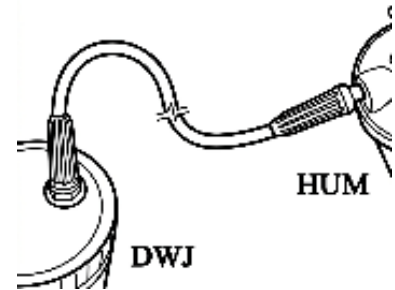
17. Push the other end of the Humidifier hose onto the barbed fitting on the Tower Cap.



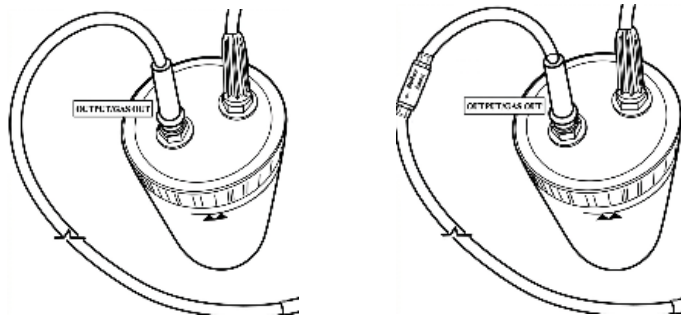
18. Install any length of hose to the output connector of the Humidifier Tank. It is your choice based on your needs. Depending how far you want the drinking water jar from the Humidifier tank.



19. Attach the other end of the hose from the Humidifier to the Black fitting on the Drinking Water Jar. It will be the fitting with the down hose and bubble stone attached. Once attached, place the Drinking Water Jar in the larger Bracket (if using).



20. Optionally: you can install the Flashback Arrestor to the gas output fitting of the Drinking Water Jar prior to installing an Accessory Hose. For example: Cannulas, remote bubbling stone, goggles, tee, spot applicator.



INITIAL SET UP IS COMPLETE

This process can take up to 30 minutes

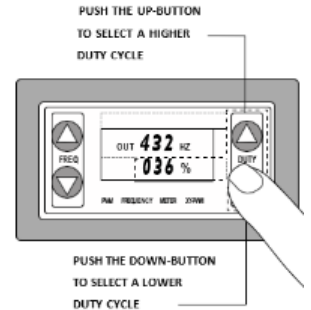
Setting your Duty Cycle

Do NOT use the machine while smoking, in the presence of an open flame, or in a dry static prone area.

Remove static from your body before engaging the gas from the machine.

The machine must be turned on to Set your Duty Cycle

1. **Set your Duty Cycle.** Above the Timer Switch there is a PWM meter. The right side adjusts the volume of gas the machine makes. It can be adjusted between 0% (no gas production) & 100% (full gas production). To adjust the %, use the duty buttons on the right side.



2. To quickly calculate your safe and optimal breathing limit of 2% hydrogen: Divide your weight (lbs/5 and kg /2.3) to get an optimal breathing %.

EXAMPLE: 180 lbs divided by 5 = 36% **or** 82kg divided by 2.3 = 36%

ESTIMATED WEIGHT VS DUTY CYCLE (%) VS GAS VOLUME CHART FOR 2% INHALATION									
KG	LBS	%	L/hr	mL/min	KG	LBS	%	L/hr	mL/min
2.3	5	1	0.6	10	59.0	130	26	15.6	260
4.5	10	2	1.2	20	61.2	135	27	16.2	270
6.8	15	3	1.8	30	63.5	140	28	16.8	280
9.1	20	4	2.4	40	65.8	145	29	17.4	290
11.3	25	5	3	50	68.0	150	30	18	300
13.6	30	6	3.6	60	70.3	155	31	18.6	310
15.9	35	7	4.2	70	72.6	160	32	19.2	320
18.1	40	8	4.8	80	74.8	165	33	19.8	330
20.4	45	9	5.4	90	77.1	170	34	20.4	340
22.7	50	10	6	100	79.4	175	35	21	350
24.9	55	11	6.6	110	81.6	180	36	21.6	360
27.2	60	12	7.2	120	83.9	185	37	22.2	370
29.5	65	13	7.8	130	86.2	190	38	22.8	380
31.8	70	14	8.4	140	88.5	195	39	23.4	390
34.0	75	15	9	150	90.7	200	40	24	400
36.3	80	16	9.6	160	93.0	205	41	24.6	410
38.6	85	17	10.2	170	95.3	210	42	25.2	420
40.8	90	18	10.8	180	97.5	215	43	25.8	430
43.1	95	19	11.4	190	99.8	220	44	26.4	440
45.4	100	20	12	200	102.1	225	45	27	450
47.6	105	21	12.6	210	104.3	230	46	27.6	460
49.9	110	22	13.2	220	106.6	235	47	28.2	470
52.2	115	23	13.8	230	108.9	240	48	28.8	480
54.4	120	24	14.4	240	111.1	245	49	29.4	490
56.7	125	25	15	250	113.4	250	50	30	500

THE CHARTS PROVIDED ARE TO HELP APPLY SAFE AND THERAPEUTIC BREATHING RATIO OF ABOUT 2% HYDROGEN IN THE INTAKE BREATH. IF YOU DOUBLE THE DUTY CYCLE %, YOU'LL BE APPROACHING THE 4% EXPLOSIVE LIMIT.

Setting your Duty Cycle

Continued

ESTIMATED WEIGHT VS DUTY CYCLE (%) VS GAS VOLUME CHART FOR 2% INHALATION									
KG	LBS	%	L/hr	mL/min	KG	LBS	%	L/hr	mL/min
115.7	255	51	30.6	510	172.4	380	76	45.6	760
117.9	260	52	31.2	520	174.6	385	77	46.2	770
120.2	265	53	31.8	530	176.9	390	78	46.8	780
122.5	270	54	32.4	540	179.2	395	79	47.4	790
124.7	275	55	33	550	181.4	400	80	48	800
127.0	280	56	33.6	560	183.7	405	81	48.6	810
129.3	285	57	34.2	570	186.0	410	82	49.2	820
131.5	290	58	34.8	580	188.2	415	83	49.8	830
133.8	295	59	35.4	590	190.5	420	84	50.4	840
136.1	300	60	36	600	192.8	425	85	51	850
138.3	305	61	36.6	610	195.0	430	86	51.6	860
140.6	310	62	37.2	620	197.3	435	87	52.2	870
142.9	315	63	37.8	630	199.6	440	88	52.8	880
145.1	320	64	38.4	640	201.8	445	89	53.4	890
147.4	325	65	39	650	204.1	450	90	54	900
149.7	330	66	39.6	660	206.4	455	91	54.6	910
152.0	335	67	40.2	670	208.7	460	92	55.2	920
154.2	340	68	40.8	680	210.9	465	93	55.8	930
156.5	345	69	41.4	690	213.2	470	94	56.4	940
158.8	350	70	42	700	215.5	475	95	57	950
161.0	355	71	42.6	710	217.7	480	96	57.6	960
163.3	360	72	43.2	720	220.0	485	97	58.2	970
165.6	365	73	43.8	730	222.3	490	98	58.8	980
167.8	370	74	44.4	740	224.5	495	99	59.4	990
170.1	375	75	45	750	226.8	500	100	60	1000
THE CHARTS PROVIDED ARE TO HELP APPLY SAFE AND THERAPEUTIC BREATHING RATIO OF ABOUT 2% HYDROGEN IN THE INTAKE BREATH. IF YOU DOUBLE THE DUTY CYCLE %, YOU'LL BE APPROACHING THE 4% EXPLOSIVE LIMIT.									

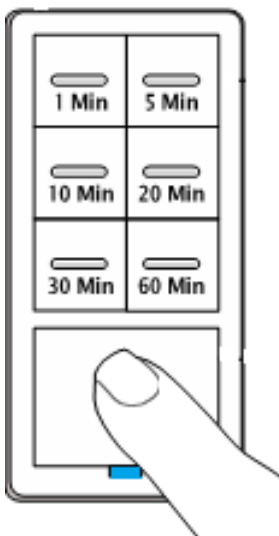
Science has proven that 2% hydrogen in air is the optimal therapeutic limit, therefore, no reason to go near the 4% level

- The standard frequency is set to 432hz. To change the frequency, use the arrow buttons on the left side to adjust. Additional information regarding frequency settings and Duty Cycles are at Eagle-Research.com and AquaCure.Life.

Setting your Timer Switch

1. Turn the Main Power on using the green switch. You will see 2 blue lights on the Timer Switch. Wait until the blue lights shut off before setting your Timer Switch.
2. The switch has 6 predetermined times to choose from. Just push the button corresponding to the time you want.
3. To change the timer to continuous production, press and hold the big button for about 10 seconds. Once you see the blue light on any minute disappear, the machine will remain on and produce gas constantly until manually shut down.

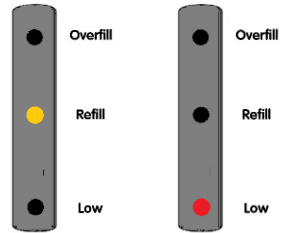
If you set the Timer Switch to anything over 1 minute, the switch will automatically countdown the time. For example: If you choose 20 minutes, The timer will switch to the 10-minute light after 10 minutes, then 5 minutes, and then 1 minute before shutting down.



How to Manage the Fluids

You are turning water into gas. The more gas the machine produces the faster the fluids will decrease. The yellow light on the machine will indicate when it is time to add more distilled water.

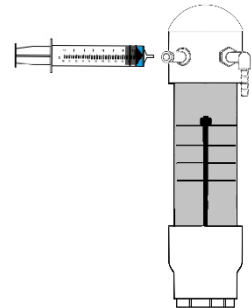
1. A Yellow warning light next to the word Refill will illuminate when your fluids are down. Refill your unit as soon as practical. **Do not wait until it gets to the low red emergency low level light.**



2. To refill your AquaCure, unscrew the Humidifier lid from its tank.
3. Put the empty syringe in the tank and fill the syringe with water, by pulling the plunger.



4. Put the syringe end into the Tower Cap check valve and slowly press the plunger, pushing all the water into the tower cap. Repeat until the yellow light is out, then add 2 additional syringe fills. This also cleans the valve. **Remember to do this slowly so you don't accidentally over fill your machine.**



Pro-Tip: If the fluid stays at the top of the tower and your gas production is on, turn it off. If the gas production is off, turn it on. The water will drop into the AquaCure.

Pro-Tip: Store the syringe with space between the rubber (piston) and the bottom of the barrel. This gap will prevent the rubber (piston) from sticking and separating from the plunger. Having a space allows you to push the plunger releasing the rubber (piston) from the sides of the barrel before using it again.



5. Once refill is complete, dump the remaining water from the Humidifier and replace with fresh distilled water. Do not top up. The used fluid from the Humidifier can be poured down the sink. **Do not overfill the Humidifier.**



Basic Regular Maintenance

1. Do not run the AquaCure for extended periods while the yellow light is on, to reduce excess wear on the electrodes.
2. Fill the AquaCure through the Tower Cap Check Valve to keep it clean and functional.
3. Keep your fan clean. The fan sucks air from the room to the inside of the machine to keep the electrolyzer cooler. Remove the reusable filter and wipe clean regularly.
4. Lubricate your cooling fan with Fluid Film every 300 to 400 hours.
5. Every 100 hours or so, calculated by the hour meter on the back of the machine. Rinse the AquaCure with hot water.

Details of the above processes can be found in the videos on our website.

Warranty & Guarantee

100% Satisfaction Guarantee

We stand behind our technology. First-time buyers can evaluate the AquaCure risk-free. If you are not completely satisfied with the results within your initial trial window, you may return the unit for a refund of the purchase price, less a \$200 restocking fee. *See website for more information.

Our Warranty & Lifetime Support

- **Manufacturer Defects:** Full coverage on parts, labor, and shipping for the original purchaser (non-transferable).
- **Out-of-Warranty / Second-hand Items:** If your warranty is invalid due to user damage or resale, we won't abandon you. We will repair any issue with the condition that the customer pays for parts, labour, and shipping.

Since 1984, Eagle-Research has stood by its craftsmanship, and we plan to do so for at least another two decades. We still service every product we have ever made. If you need a repair outside of warranty, we offer lifetime support, the owner simply covers parts, labor, and shipping.

Return Authorizations: Please contact us directly through the official support portals at **Eagle-Research.com** or **AquaCure.Life**. Do not ship any units back without a pre-authorized Return Merchandise Authorization (RMA).

ADDITIONAL INFORMATION

Thank you again for our purchase. We hope you enjoy the benefits as much as we do.

Our full Operation Manual and several videos are available on our website Eagle-Research.com or AquaCure.Life.



AquaCure.Life/AC60

If you cannot find your answer on the website, please reach out to us at

Eagle-Research.com/contact or AquaCure.Life/contact.

We will work through it with you.



Eagle-Research
Energy Solutions
since 1984