

USER MANUAL

AQUARMONY FLOAT CABIN

This manual is intended for owners, administrative staff of the salon and persons involved in the maintenance or operation of the floating enclosure. For clients of floating centers, only a brief instruction before the floating sessions is recommended. For proper operation of technical systems and customer safety, proper maintenance of water quality and hygiene required, please read this manual carefully. All instructions and operations for maintenance, upkeep and functionality will be exemplified during and at the end of the installation of the equipment.

For additional information or orders of parts and consumables you can contact us from **Monday to Friday between 9 and 17 EEST** (Romania time) at our service number **004 - 0723 424 454**. If you have a problem that occurs outside of business hours please send an email with details to **tehnica@aquarmony.ro** and we will contact you as soon as possible. Before disassembling, replacing or sending for warranty or repair a part of the floating cabin equipment, we recommend that you view the materials and information provided on our technical page: **<https://aquarmony.ro/service/?lang=en>**

The floating cabin consists of:

- the tub, with the solution of water mixed with salts
- the enclosure in which the tub is located, with the walls, the shelf and the ventilation
- the technical area where the water filtration and heating components are located
- control panel and remote controls for customer and administrative staff

Power consumption and specifications::

Power supply: 230 V, 16 A

Usually required power: 500 W

Maximum power required: 3000 W

Estimated average monthly consumption: 300 kWh / enclosure
(at 25 degrees Celsius and 50% humidity in the environment)

Use of floating enclosures:

Hydrotherapy: floating therapy with Epsom salt (magnesium sulphate, bitter salt)

Maximum user height: 230 cm float cabins / 200 cm float pod

Maximum user weight: 130 kg

REMOTE CONTROLS AND SWITCHES - FUNCTIONS THEREOF

Along with the floating enclosure, you will receive a main remote control plus a spare one, according to the attached image. Backup remote controls are kept separate, at reception, and are only used in the event of a failure of the main remote controls to avoid delays in the clients schedule. The remote controls are moisture resistant, but for extra protection, we recommend keeping them in sealed bags to avoid water leaks and damaging them. If any of the remote controls malfunction, please contact an Aquarmony representative for replacement or repair.



The 4-button remote control for customers has the following functions:

- A button - turns the air fan on and off
- B button - turns the underwater lighting of the enclosure on and off
- C button - turns the main light of the enclosure on and off
- D button - turns ambient music on and off

The 2-button switch for administrative staff has the following functions:

- Pump Button (white) - activates the cleaning system: pump, UV and ozone
- Heat Button (black) - activates the secondary heater when the pump is running

The 4-button user remote control is left on the cabin shelf only during the floating session, warning the user about avoiding contact with water or removing it from the protective packaging. At the end of the floating session, remove the remote control from the cabin for drying and turn off the forgotten lights, music, or ventilation turned on by the user.

The 2-button switch on the control panel is intended for administrative staff and we recommend warning customers to avoid misuse.

The lighting of the cabin is done in two ways. The main lighting is located on the upper edge of the tub, with LED strip protected in silicone tube (or fiber optic for the star ceiling in the Premium version). The main lighting is switched on from the remote control using C button. The secondary lighting is located on the side wall of the tub, below the normal level of the salt solution. It is started using B button on the remote control. Both lighting systems, as well as the air ventilation, are powered by harmless 12V voltages. In the event of their failure, we recommend that you contact a specialist technician for repair or replacement.



Please note: Protect your remote controls from water and keep your backups separate.

THE FLOAT TANK AND THE SALT WATER SOLUTION

The float tank is composed of the tub that contains the salt solution, plus the drains of the circulation and sanitation system. When the pump is started, the solution in the tank is absorbed through the inlet, together with ozone, passed through the cleaning circuit and brought back into the tank through the second siphon outlet, the drain. The two inlet / outlet drains are located at opposite ends of the tub, thus ensuring the flow necessary for the optimal circulation of the entire volume of water, together with any impurities, in order to filter them. The size and position of the drains also help in this regard. The inlet drain has a covering, to ensure better drainage of any impurities, while the outlet drain has no covering, to ensure a better flow of the ozonated solution entering the tub. Make sure the covering remains placed in the proper position when filtration is working.



The tub has an internal height of 40 cm and the salt water solution has a height of about 24 cm. The height of the solution must be constantly between a minimum of 23 and a maximum of 25 cm in order to be properly maintained, heated and sanitized. With good maintenance, adequate salt quality can be ensured for thousands of floating sessions. Salt along with water usually changes at over 1000 sessions or 2-3 years after its introduction into the tub. Its emptying is done according to local regulations. One of the best options is to recycle it or use it as a natural soil additive, in collaboration with a farm, because magnesium salts help the plants to grow and increase mineral absorption.

The salinity of the salt solution is, in addition to its height, an essential factor in ensuring an optimal floating experience. Salinity is measured using a densimeter or a graduated cylinder and scale. A 1000ml cylinder is used, and a weight between 1260 and 1290 grams must result in weighing this volume of solution. If the value drops below 1260 then the salinity becomes too low to ensure a comfortable float. **Caution!** If the value increases beyond 1290 grams, the composition approaches the solubility limit, risking the salt to crystallize and clog the inlets, filters or saline recirculation pump, leading to loss of warranty.



Salinity is to be checked weekly. Salt is lost when customers leave the tub and water evaporates naturally due to heat. If the salinity decreases, salt needs to be added, depending on the flow of customers (1 bag of 25 kg every 1-3 months). If the salinity increases, water needs to be added (2 cm every 1-3 weeks). Please maintain the recommended height of 24 cm. At 25 cm we have a volume of about 780 liters of solution, in which 500 kg of salt are dissolved (20 bags of 25 kg). The total weight reaches one ton (780 liters x 1280 grams = 998 kg). Along

with the salinity check, the PH check is also recommended. This is done with a classic pharmaceutical tester or specialized measuring device, and the recommended pH level is between 7 and 8, ie slightly alkaline.

The ideal water temperature is 35 degrees Celsius. Depending on season and customer preferences, you can adjust it between 34.5 and 36 degrees. The temperature is measured using a digital thermostat located on the front of the control panel. Below 34.5 degrees it becomes too cold for most customers and above 36 degrees the humidity rises too much, floating turns into sauna and perspiration becomes a problem. This temperature is adjusted by pressing the Set button, changing the value with the up / down arrows, then saving the value by pressing the Set button again..



The thermostat will automatically maintain this value by a margin of 0.5 degrees from the set temperature. When the temperature reaches the set value, it will automatically switch off the recirculation system, both the pump and the secondary heater. When the temperature drops by 0.5 degrees below the set value, the thermostat automatically restarts filtration.

Caution! If the temperature drops below 30 degrees Celsius there is a risk of crystallization of the salt solution, because the water solubility decreases with decreasing temperature. Therefore, keep the solution at a normal temperature even between float sessions. If the tank remains unused for more than a few days (during annual holidays), you can dilute the solution to a minimum of 1250g/l and turn off the circuit breakers in the control panel. This will allow the solution to cool at room temperature without crystallizing and will also reduce evaporation.

For good maintenance it is necessary to check the condition of the water and the tub before each floating session. If there are any hairs or other impurities left on the surface or on the walls of the cabin that have not been picked up by the cleaning system, they must be removed with a cloth or pool skimmer. For cleaning of the cabin walls it is forbidden to use chemical solutions that can reach the floating solution. The contact area of the solution with the tub wall is usually wiped off using a cloth and clean warm water. A solution of hydrogen peroxide can also be used for the walls of the enclosure and the ceiling. Weekly, a general cleaning of the cabin is recommended, including outside walls and the technical area.

At regular inspections (6-12 month intervals) the solution can be removed to an external pool for a more thorough cleaning. After draining the solution, the tank

is washed and cleaned, including the bottom of the tub where it cannot be done normally. Check the intake couplings, fill the sealing areas with glass silicone (for aquariums) in case of damage and ensure maintenance of the enclosure or the recirculation and filtration system. For sulfur stains or other persistent stains, we recommend natural products, toothpaste, baking soda, vinegar, which can clean the walls of the tub after the evacuation of saline solution. Simple sponges or light brushes for the tub and glass scrapers for enclosure walls can be used.

Caution! It is forbidden to move or hit the water and ozone inlets to avoid detachment from the tub and damage to the recirculation system. Moving or detachment of lighting systems, especially underwater lighting, shall also be avoided.

Please note: The tub is cleaned daily and general cleaning is done weekly. Water height, salinity and pH are checked weekly.

TECHNICAL AREA AND FILTRATION SYSTEM

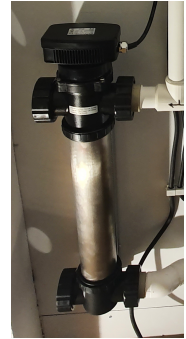
In the technical area we have the automation, heating and filtration systems, which ensure the maintenance of the salt solution in optimal condition. Ensure proper ventilation of the control panel, with a maximum temperature of 30 degrees and a maximum humidity of 60% in the environment. The salt solution filtration system of the cabin consists of the following components: recirculation pump, filter cartridges, UV sterilizer, ozone generator, secondary heater, main outlet and intake valves, vent valve. This filtering system is designed to be used continuously. **Caution! The white button (pump) always stays on, when users are not inside the cabin, for automatic filtering and heating of the solution.**



The main thermostat on the control panel operates automatically and stops the pump when the solution reaches the set maximum temperature (35.5° C), then automatically restarts the pump when the solution temperature drops 0.5 below the set value (35.0° C). Usually, the pump runs for 2-3 hours, then stays off for 1-2 hours, being controlled by the thermostat. The pump and the UV sterilizer are connected to a common power supply, being switched on simultaneously by the white button. The ozone generator is also switched on with the same white button, but it is set separately, by its own timer, to run only for a limited time (25 minutes) each time the pump is started. For variable speed pumps, the power can be set on the pump controller. Usually, the value will be set to 70% (respectively 200W) for optimal operation. For quieter operation, the value can be lowered to a minimum of 150W and for faster filtering, it can be raised to a maximum of 250W. Do not exceed 300W so as not to overload the system.

Caution! STOP filtration (white button) before the user enters the cabin.

The UV sterilizer is equipped with a lamp that ensures both the disinfection of the salt solution and the amplification of the effect of ozone on it, through the advanced oxidation system. For maximum efficiency, the UV sterilizer is used constantly throughout the operation of the recirculation pump. UV-C lamps are changed annually, with an average service life of approximately 9000 hours. Turn off the white button (pump) and remove the top cover of the UV tube, to replace the old lamp. Close the cover and then turn back on the system. When the UV lamp fails, the salt solution starts to become cloudy in 1-2 weeks. After repair, it will return to transparency in a few days. The filters will be changed and ozone will be used more often during this period, avoiding the use of the cabin.



The filter cartridges are changed every 2 weeks, depending on their color and the flow of existing customers. To change the filter cartridge, first stop the pump. Loosen the upper filter thread until the water level in the filter drops, then unscrew it completely. Remove the filter, remove the used cartridge and clean the gasket with clean water. Put the new cartridge in, then screw it back on to keep it tight. Standard 10" hot or cold water cartridges between 5 and 50 microns can be used, preferably woven cotton, not polypropylene. If necessary, the vent valve, located at the top of the installation, can also be used before the filter is opened, to avoid leaks.



Caution! Use only the vent valve for this operation and DO NOT close the inlet or outlet valves to avoid damage to the pump. Also, DO NOT open the vent valve when the pump is running. If the pump is blocked, if it no longer starts when the white switch from the panel is on, or if you notice abnormal noises during operation, contact a specialist technician for cleaning or an Aquarmony representative for warranty or replacement.



The main heater of the tank is placed under the tub, similar to regular underfloor electric heating mats. Its power is 500W, and the temperature is automatically controlled by a digital thermostat located inside the control panel in the technical area. The temperature sensor is placed on the heating element of the mat to prevent it from overheating. This temperature is adjusted by pressing the Up / Down button for 5 seconds, changing the value with the up / down arrows, then saving the value by waiting for 10 seconds. The thermostat will automatically maintain this value by a margin of 2 degrees from the set temperature. Under

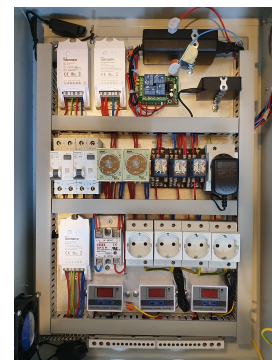
normal conditions (25 degrees in the room environment and air fan off) the values will be set to 40-42 degrees to maintain the temperature of 35 degrees in the salt solution. **Caution!** Do not set the values of the tub thermostat above 45-47 degrees to prevent overheating.

The secondary heater is used if the temperature of the solution has dropped accidentally (cabin door open, forgotten fan on etc.) and a faster rise is required. Its power is 2000W (the main heater has 500W) and can raise the temperature of one ton of solution by about 1 degree / hour. For safety reasons, it is only started when the pump is switched on. The black button on the control panel is used for this purpose. The automation is done so that the black (Heater) button can only be operated if the white pump button is on. Its temperature can be adjusted by the thermostat on the lid, and the recommended value is 40 degrees. The secondary heater operates only 25 minutes after each start of the pump to avoid overheating it. **Caution!** Do not place the plug of the heater or other appliances in a socket other than the one intended and marked for. The 2000W heater is quite powerful and will damage the other sockets or relays.



Aquarmony tanks are also usually equipped with ceiling heating, in order to reduce condensation and reduce the phenomenon of dripping during floating sessions. The ceiling heater is controlled by a thermostat, just like the main heater of the tub. Under normal conditions (25 degrees and 60% maximum humidity in the room environment) the values will be set at 33-35 degrees. **Caution!** Do not set the values of the ceiling thermostat above 36-38 degrees Celsius to prevent overheating.

For the cabins equipped with a WiFi system, the function is started with the red button on the panel and the control is done through the eWeLink application (www.ewelink.cc). In the application Pump button is equivalent to the white button and Heater Button is equivalent to the black button on the panel. **Caution!** WiFi thermostats for Environment and Water are set as alerts (normally closed): turning them on means stopping the filtration, respectively the ozone generator. If you use commands in the eWeLink application, leave the black and white buttons off on the control panel.



Cooling of automation systems equipped inside the control panel is done by ventilation and controlled by thermostat. Under normal conditions (at 25 degrees in the room environment) the values will be set at 35-33 degrees. **Caution!** Do not set the values of the ventilation thermostat above 37-35 degrees to prevent the system from overheating.

For music, the cabins come with an MP3 player with USB or AUX input that can be set according to your preferences. For cabins equipped with a star ceiling and fiber optics, a remote control dedicated to them is used to personalize the lights. For communication with the user inside the tank, the cabin is equipped with a wireless digital intercom. The inside unit is placed into the enclosure wall and is always on. The outside unit has the possibility to adjust the volume and it is used to communicate or monitor the users who are at the first floating sessions. Communication from the outside to the inside can only be done by pressing the TALK button on the outdoor unit.

Please note: Replace the filter cartridges every 2 weeks. Do not change the order of the equipments plugs in the marked sockets.

THE OZONE SYSTEM

The ozonation system is composed of the ozone generator located in the technical area, the ozone inlet pipe in the tub and hose leading to it. The ozone inlet is located under the water inlet of the basin, thus ensuring that part of the ozone is taken into the salt solution cleaning system, and part to come to the surface of the water, ensuring the sanitation of the air and the walls of the enclosure. The ozone taken up in the circulation system is mixed by the pump with the salt solution and then reaches the UV sterilizer where it is activated in the advanced oxidation system. This ensures that the salt solution is sanitized, which then goes back into the tub through the outlet.



Filtration is done before and after each floating session for 30 minutes. This is ensured by the timer for the pump and the UV system which allows the filtration to operate for 35 minutes, regardless of the temperature set on the water thermostat. Resetting the timer is done by turning off the white button (pump) for 5 seconds and then back on. In order to maintain the quality of the water and air in the enclosure, a daily ozonation of 25 minutes is required, regardless of whether the cabin has been used or not. For this, a second timer ensures the start of the ozone generator for 25 minutes, at each start of the recirculation pump. **Caution!** Keep a minimum of 5 seconds between shutting down and restarting the white button to allow the pump to slow down, avoid electric shock and pump failure.

When starting ozonation, check the condition of the ozonation system. This can be easily done by observing the bubbles that appear in the water at the ozone inlet inside the tub as well as the foam that forms at the outlet of the solution in the tub. The change in the noise made by the solution recirculation pump and the

bubbles reaching the surface of the pool water is audible. If the hose is clogged with salt and bubbles no longer reach the tub, turn off the system and flush the hose to prevent damage to the ozonator. Ozone also has a specific smell, in its absence the generator may not be working properly, pumping only simple air.

Caution! Do not inhale ozone from the generator outlet. It can damage the lungs if inhaled directly. To detect its presence, leave the ozonator running for a few minutes and then the specific smell will be felt inside the cabin or the tank room. After ozonation, the enclosure is ventilated by opening the door before the user enters the tub. If ozone no longer reaches the tub, remove the hose from the generator and check its operation. Periodically clean the intake hose as well, see the Aquarmony service page. Do not disconnect the hose from the tub, you may leak the salt solution. If the salt solution is not properly ozonated, it turns dark (yellow-brown) in 1-2 weeks. After fixing the problem, it will return to the transparent-green color in a few days. Ozonation will be done more frequent during this period and the use of the pool will be avoided.

Please note: Always check the ozonator at start-up and do not inhale ozone. Hold 5 seconds between shutdown and restart of the white button (Pump).

THE VENTILATION AND AIR CIRCULATION SYSTEM

The ventilation and air circulation system consists of a fan, ducts, air access grilles and exhaust grilles. The ventilation of the enclosure is normally done naturally. The warm air rises and exits through the exhaust grille at the top of the enclosure. Fresh cold air enters through the air vent located at the bottom of the enclosure. If necessary, if the user considers it too warm, he can also turn on the air fan, using the A button on the remote control.

The air blower is located at the bottom of the enclosure, in the vent on the outer wall of the cabin. From there, the air duct starts, which reaches the air inlet inside the enclosure. The warm air exhaust pipe starts from the upper grille and goes out of the enclosure. Moisture coming out of the outside exhaust grille is collected by a dehumidifier or air conditioner, which we recommend as necessary in the floating tank room. Remember that we recommend to ensure a humidity below 60% in the environment.

It is important to check that the air duct and intake grilles, both inside and outside, are not blocked by towels or other objects forgotten by users. At the end of the float session, check that the fan is turned off to avoid cooling the cabin. An overnight fan can lower the water temperature by up to 2 degrees. However, we recommend that you do this intentionally for 2-3 nights each month to dry and clean the interior walls of the cabin.

Please note: Do not block the air grilles and check the fans left on.

FINAL RECOMMENDATIONS

In the technical area is mounted an electrical control panel (fuse box) in which are located two automatic circuit breakers with 30mA differential that protect the entire system. One is for the 2000W heater and the other for the rest of the equipment. In the event of an emergency, turn them off to switch off the power to the entire system. **Caution!** It is necessary to press the test button of the circuit breakers at intervals of 3-6 months to ensure the operation in parameters of the protection offered by them.

PLEASE REMEMBER:

Daily operations: Check the technical area: filter condition, UV operation, pump, thermostats, ozonator, ventilation system. Briefly clean the tub and salt solution.

Weekly operations: Check and adjust water height, solution salinity and PH. Check and change the filter cartridges. General cleaning of the tub, enclosure walls and technical area.

Annual operations: Evacuation of the tub for cleaning and sanitation. Cleaning pumps, UV and secondary heater. Press the circuit breaker test button (automatic fuses). Check the intake and exhaust couplings. Perform maintenance work on the cabin and tub. Replace broken silicone sealings, change UV filter lamp, change salt solution as needed.

Caution! If the density of the solution increases above 1290 grams, the composition approaches the solubility limit, risking the salt to crystallize and clog the inlets, filters or recirculation pump, leading to loss of warranty.

FILLING THE TUB WITH SALTS

At the time of installation of the float tank, the testing of the system and its commissioning is done with plain water. The salt solution will be filled by the end user only after the location setup is completed and a final cleaning of the cabin is performed.

Read all the steps below and prepare before you begin:

- 100kg of salts (4 bags) are initially added to the empty tank
- turn on the hot water supply hose (50-60 degrees Celsius)
- start mixing the hot water with the salt from the tub
- for **Aquarmony One, Pyramid and Premium** gradually add another 350kg (14 bags) for a total of 450kg (**18 bags**)
- for **Aquarmony Infinity** gradually add only 200kg more (8 bags) for a total of 300kg (**12 bags**)
- continue mixing and adding water up to the level of 22-23cm
- mix carefully without making waves and blocking or hitting the inlets
- at 23 cm the water must reach 1-2 cm above the cover of the inlet
- after reaching the 23cm level, connect the pump, UV and heater to the sockets
- turn on the circuit breakers and start the pump with the white button
- if the solution level is too low, the pump will draw air through the inlet
- if the pump draws air trough the inlet, 1 cm more of water can be added
- continue mixing until the salt is completely dissolved (approx. 1-2 hours)
- the water temperature after dissolution will reach between 25 and 30 degrees
- insert the ozone generator into the corresponding socket at this time
- leave the tank in operation for homogenization and heating to 35 degrees
- for faster heating (5-7 hours) use the secondary heater (black button)
- heater stops after 25 minutes, you can restart it by shutting the white button for 5 seconds
- after homogenization and heating to 35° C, measure the solution density (see page 3)
- if necessary add salt and water to reach the usual level of 1270g/l density at 24cm height
- pay attention to the maximum salinity level, in order to avoid clogging the system

CAUTION! It is forbidden to intervene inside the electrical panel in the technical area by non-specialized persons. Any problems with the electrical system must be reported to an authorized technician or Aquarmony personnel and remedied under their guidance.

CAUTION! It is mandatory that the grounding of the floating enclosures be always connected to the grounding of the building. Check the grounding of the electrical area of the space where the floating enclosure was installed before using it. Do not change the power supply of the enclosure without checking that the new power supply also has sufficient power and grounding. Do not reverse the Phase (brown L+) and Neutral (blue N-) power cables. In the event of frequent power outages that could affect the proper operation of the equipment, consult an authorized electrician or Aquarmony technician for the installation of voltage shock protection equipment.

CAUTION! The ambient temperature and humidity in the room where the floating enclosure is located must be constantly monitored. The ideal ambient temperature is 25 degrees. If it drops below 23 degrees the enclosure will be slow to heat up and electricity consumption will increase. If the temperature rises above 28 degrees there is a risk of faster evaporation of water and overheating of equipment. The ideal humidity is below 50%. If it frequently increases by more than 60%, especially in the technical area, premature wear or damage to the equipment occurs and the risk of electrical failure incidents increases. To prevent this, use a dehumidifier and / or air conditioner and / or alarm system with humidity, temperature and smoke sensors located in the room of the float tank.

CAUTION! Failure to follow the procedures in this user manual may result in damage to the technical systems or the cabin and loss of warranty. Aquarmony is not responsible for any damages, losses or complaints made by the users in this case. For float cabins purchased with a promotion and support contract, Aquarmony undertakes to remedy any defects that have occurred as soon as possible, so that the impact on customers and the appointments made during the regular schedule is minimal.

CAUTION! The promotion and support contract includes consulting, training and marketing services, telephone support according to the type of contract agreed, emergency service work, semi-annual and annual overhaul. The contract does not cover the cost of transportation for overhauls, the cost of parts out of warranty and defective parts due to the fault of the user or the owner, intentionally or accidentally, by not following the instructions in this manual.

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