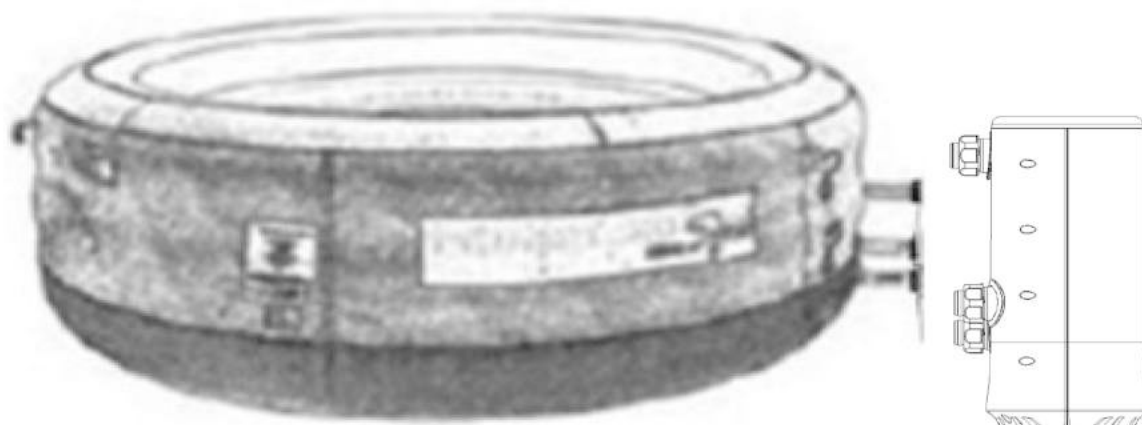


# Instruction Book



**SPA**

**Installation and user's manual**

**Read carefully and keep it for later reference**

# WARNING

**Carefully read, understand, and follow all information in this user manual before installing and using the swimming pool.**

**These warnings, instructions, and safety guidelines address some common risks of water recreation, but they cannot cover all risks and dangers in all cases. Always use caution, common sense, and good judgment when enjoying any water activity. Please read carefully and keep for future reference.**

## **Non Swimmers safety**

1. Continuous, active, and vigilant supervision of weak swimmers and non-swimmers by a competent adult is required at all times (remember that children under five are at the highest risk of drowning)
2. Designate a competent adult to supervise the pool each time it is being used;
3. Weak swimmers or non-swimmers should wear personal protection equipment when using the pool;
4. When the pool is not in use, or unsupervised, remove all toys from the swimming pool and its surrounding to avoid attracting children to the pool.

## **Safety devices**

1. It is recommended to install a barrier (and secure all doors and windows, where applicable) to prevent unauthorized access to the swimming pool;
2. Barriers, pool covers, pool alarms, or similar safety devices are helpful aids, but they are not substitutes for continuous and competent adult supervision.

### **Safety equipment**

1. It is recommended to keep rescue equipment (e.g. a ring buoy) by the pool;
2. Keep a working phone and a list of emergency phone numbers near the pool.

### **Safe use of the pool**

1. Encourage all users especially children to learn how to swim;
2. Learn Basic Life Support (Cardiopulmonary Resuscitation - CPR) and refresh this knowledge regularly. This can make a life-saving difference in the event of an emergency;
3. Instruct all pool users, including children, what to do in case of an emergency;
4. Never dive into any shallow body of water. This can lead to serious injury or death;
5. Do not use the swimming pool when using alcohol or medication that may impair your ability to safely use the pool;
6. When pool covers are used, remove them completely from the water surface before entering the pool;
7. Protect pool occupants from water related illnesses by keeping the pool water treated and practicing good hygiene. Consult the water treatment guidelines in the user's manual;
8. Store chemicals (e.g. water treatment, cleaning or disinfection products) out of the reach of children.

9. Use the signage as outlined below;

10. Removable ladders shall be placed on horizontal surface.

WARNING: drained pool outdoors may cause unknown hazards.

WARNING: Installation and assembly shall be done by adults.

WARNING: Read and follow the the instruction for use and maintenance to ensure a safe use of the swimming pool kit. Not following the instructions for use and maintenance can cause serious health hazards, in particular for children.

WARNING: Only for domestic outdoor use.

WARNING: Drowning hazard. Children have drowned in portable swimming-pools.

WARNING: Empty the pool when not in use. Do not leave a small pool empty outdoor.

WARNING: Keep children under supervision in the aquatic environment.

WARNING: No diving.

# **READ ALL INSTRUCTIONS AND SAFETY WARNINGS IN THIS MANUAL**

**Failure to follow the warnings and instructions in this manual may result in serious injury, drowning or electric shock.**

**The safety of your children is left on your hand! The risk is the highest for children aged below 5. Be high alert all the time.**

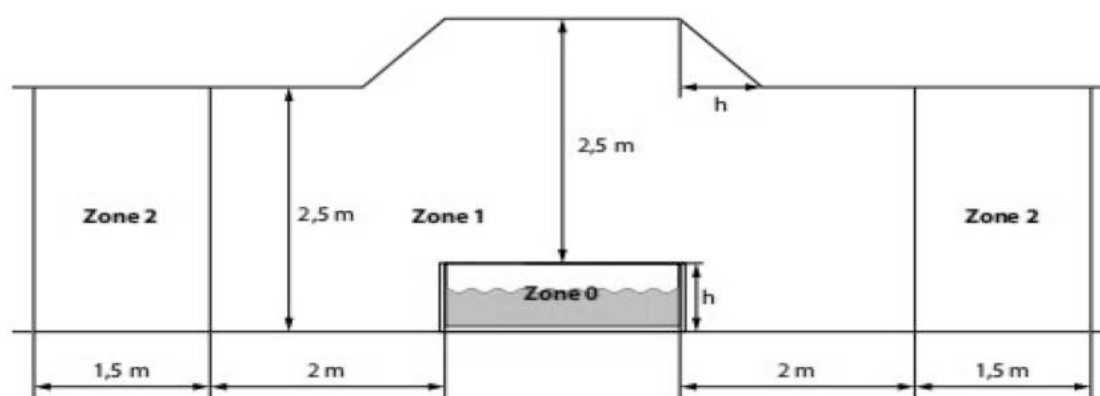
Always comply with the following instructions:

- The children should be under close and constant supervision;
- Designate one security responsible;
- Always designate a responsible person to manage pool and pool area;
- Adult supervision should always be relevant to the number of people using the pool;
- Wet the nape, chest and legs before entering the water;
- Learn the safety gestures and especially the specifics to children;
- Prohibit diving and jumping;
- Prohibit running, splashing games around the pool;

- Do not let an unattended child who does not swim use the pool with no life-jackets on;
- Do not leave any players around and in the basin unattended;
- Always keep the water treatment products out of reach of all children.

If incident occurs remove the injured person or child from the pool and pool area Contact emergency services for advice and guidance on how to treat injured person or child

The hot tub's electrical connections must be installed in the electrical safety zones labelled 1, 2 or outside all safety zones. The measured zones are limited by walls and fixed partitions.



## TIMPORTANT SAFETY INSTRUCTIONS

**For your own safety and that of your product, make sure to following the safety precautions below.**

**Failure to follow the instruction may result in serious injury, property damage or death. Improper installation or operation will void the warranty.**

# Read, understand and follow all instructions:

## DANGER

- Risk of accidental drowning:

- Extreme caution must be exercised to prevent unauthorized access by children.
- Inspect the spa cover regularly for leak, premature wear and tear, damage or signs of deterioration.

Never use a worn or damaged cover: it will not provide the level of protection required to prevent unsupervised access to the spa by a child.

- Always lock the spa cover after each use.

- Risk of injury:

If the supply cord is damaged, it must be replaced by the manufacturer, its service agent or similarly qualified persons in order to avoid a hazard.

The suction fittings in this spa are sized to match the specific water flow created by the pump. Should the need arise to replace the suction fittings or the pump, be sure that the flow rates are compatible. Never operate the spa if the suction fittings are broken or missing. Never replace a suction fitting with one rated less than the flow rate marked on the original suction fitting.

- Risk of Electric Shock:

- Do not permit any electrical appliances, such as a light, telephone, radio or television within 1.5m (5 feet) of a spa tub.
- Do not use the spa when it is raining, thundering or lightning..

## WARNING

- To reduce the risk of electric shock, do not use an extension cord, timers, plug adapters or converter plugs to connect the unit to electric supply; provide a properly located outlet.
- The spa electrical appliance should be supplied through a residual current device (RCD) having a rated residual operating current not exceeding 10mA.
- Parts containing live parts, except parts supplied with safety extra-low voltage not exceeding 12V, must be inaccessible to occupants in the spa.
- Parts incorporating electrical components, except remote control devices, must be located or fixed so that they cannot fall into the spa.
- Residential electrical connection box must be located safely with a distance of at least 2m away from the spa.
- Electric installation should fulfill the local requirement or standards.
- This appliance can be used by children aged from 8 years and above and persons with reduced physical, sensory or mental capabilities or lack of experience and knowledge if they have been given supervision or instruction concerning use of the appliance in a safe way and understand the hazards involved.  
  
Children shall not play with the appliance. Cleaning and user maintenance shall not be made by children without supervision.
- To reduce the risk of injury, do not permit children use this product unless they are closely supervised all times.



- To reduce the risk of child drowning, supervise children all times. Attach and lock spa cover after each use.
- Make sure the floor is capable of supporting the expected load ( $\geq 500\text{kg/m}^2$ ).
- Adequate draining system must be provided around the spa to deal with overflow water.
- To avoid damage do not leave the appliance empty for an extended period.
- To avoid damage to the pump, the spa must never be operated unless the spa is filled with water. Immediately leave spa if uncomfortable or sleepy.
- To reduce the risk of injury :
  - Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

In order to avoid the possibility of hyperthermia (heat stress) occurring it is recommended that the average temperature of spa-pool water should not exceed  $40^{\circ}\text{C}$  ( $104^{\circ}\text{F}$ ).

- Since excessive water temperatures have a high potential for causing fetal damage during the early months of pregnancy, pregnant or possibly pregnant women should limit spa water temperatures to  $38^{\circ}\text{C}$  ( $100^{\circ}\text{F}$ ).
- Before entering a spa or hot tub the user should measure the water temperature with an accurate thermometer since the tolerance of water temperature regulating devices varies.
- The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness with the possibility of drowning.
- The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia in spas.

The causes and symptoms of hyperthermia may be described as follows:

Hyperthermia occurs when the internal temperature of body reaches a level several degrees above the normal body temperature 37°C (98.6°F). The symptoms of hyperthermia include an increase in the internal temperature of body, dizziness, lethargy, drowsiness, and fainting. The effect of hyperemia include failure to perceive heat; failure to recognize the need to exit spa; unawareness of impending hazard; fetal damage in pregnant women; physical inability to exit the spa; and unconsciousness resulting in the danger of drowning.

- Obese persons or persons with a history of heart disease, low or high blood pressure, circulatory system problem, or diabetes should consult a physician before using a spa.
- Persons using medication should consult a physician before using a spa since some medication may induce drowsiness while other medication may affect heart rate, blood pressure and circulation.
- Check with doctor before use if pregnant, diabetic, in poor health, or under medical care.
- People with infectious disease should not use a spa or hot tub.

- Persons with any medical condition should seek medical advice before using a spa.
- Avoid putting the head under water at all times.
- Avoid swallowing spa water.

- To avoid injury exercise care when entering or existing the spa or hot tub.
- Water temperature in excess of 40°C (104°F) may be injurious to your health.
- Never use a spa or hot tub alone or allow others to use the spa alone.
- Do not use a spa or hot tub immediately following strenuous exercise.

- Do not put the spa under 0°C (32°F) environment in order to avoid freezing if there is still water in the pool.
- Do not turn on the spa when the water is frozen.
- Never pour water with a temperature higher than 40°C(104°F) into the spa directly.
- Always unplug this product from the electrical outlet before removing, cleaning, servicing or making any adjustment to the product.
- Never jump or dive into a spa or any shallow body of water.
- Do not bury the electrical cord. Locate the cord where it will not be damaged by lawn mowers, hedge trimmers and other equipment.
- Do not attempt to plug in or unplug this product while standing in water or when your hands are wet.
- Do not use the spa if damaged in delivery and/or malfunctioning in any way.
- Keep all pets away from the spa to avoid any damage.
- Do not add bath oil or bath salt to the spa water.
- Do not leave an empty pool outside.
- To prevent resetting of the thermal cut out, this appliance must not be supplied through an external switching device, such as a timer, or connected to a circuit that is regularly switched on and off by the utility.

Consideration for positioning of the spa to minimize noise disturbance as much as possible.

For indoor installations:

Consideration for any local regulation on these topics;

The minimum clearance around the spa for full access to the spa and equipment, and for moving the product or equipment for access to internal components for maintenance and/or service purposes.

The minimum clearance all around the spa for any electrical device or supply (e.g. plug) in compliance with applicable regulation.

Consideration for installing any appropriate means ensuring that the cover, and mostly its side facing water, will not come into contact with the ground or any other dirty surface when not in place on the spa (e.g. cover lifter, dedicated appropriate support close to the spa).

Consideration for a convenient water supply for filling the spa that complies with any local water regulations, and whose parameters shall be adjusted with the requirements of the water treatment section of the manual before first use of the spa.

Advice to consult experts and/or local authorities to apply local or national laws/regulations relating to childproof fencing, safety barriers, lighting, and other safety requirements.

When the spa is being used, the cover should be placed in a clean, dry area, otherwise it can pick up dirt and bacteria. Covers should not be put on wooden tables or wooden decking because of the risk of bleaching the wood. A cover lifter, or similar device, is useful for ensuring that the cover does not come into contact with the ground. A cover lifter is strongly recommended for spas in rental settings

The use of ozone or UV, where applicable, shall always be accompanied by residual disinfection with an oxidising biocide (e.g. Chlorine or Bromine or other biocide products, compatible with manufacturer's recommendations).

Improper use of chemicals may result in degradation, damage and other imperfections of the spa surface and other spa components (typically discolouration of materials, corrosion of metal parts).

It is highly recommended to use tap water for spa filling to minimize the influence of unwanted content, such as minerals.

### Biofilm Prevention/ Removal

Chemical products are available to help remove biofilm and advice to the end users should be provided about their use periodically, e.g. immediately before a drain down or when a problem is experienced.

The spa should be run manually for an hour a day.

Barefoot areas and relaxing areas shall be considered in the cleaning process as well. No cleaning water may flow into the spa or spa water cycle. The dirt and cleaning agents shall be rinsed carefully to drain in the spa surround.

## **installation and operation**

Check the set water temperature and consider lowering it for the times when the spa will typically not be in use.

Depending on external conditions, consider turning off the heater entirely if not using the spa for an extended period of time (where the spa provides this option, but still maintains residual disinfection/pH-values).

For above ground portable spas without floor insulation, consider using an insulating ground cloth underneath the spa to minimize heat loss through the bottom of the spa.

**OPERATIONAL ADVICE:**

The spa owner shall be informed that for good circulation when the spa enters a filtration purge cycle, it is good practice that on exiting the spa, all massage jets are left open, aeration valves are closed and diverters are set half way to allow chemically treated water to flush through all pipework.

Whenever the spa is emptied, the filter should be cleaned (and drained/dried, where applicable).

In the absence of automated and/or continuous water treatment (measurement and chemical dosage) any manual dosing of chemicals shall not be performed while bathers are present in the spa.

Where an automatic system is installed, periodic checks may be required as per manufacturer's instructions.

# Operation Instruction

## I. Model and Specification

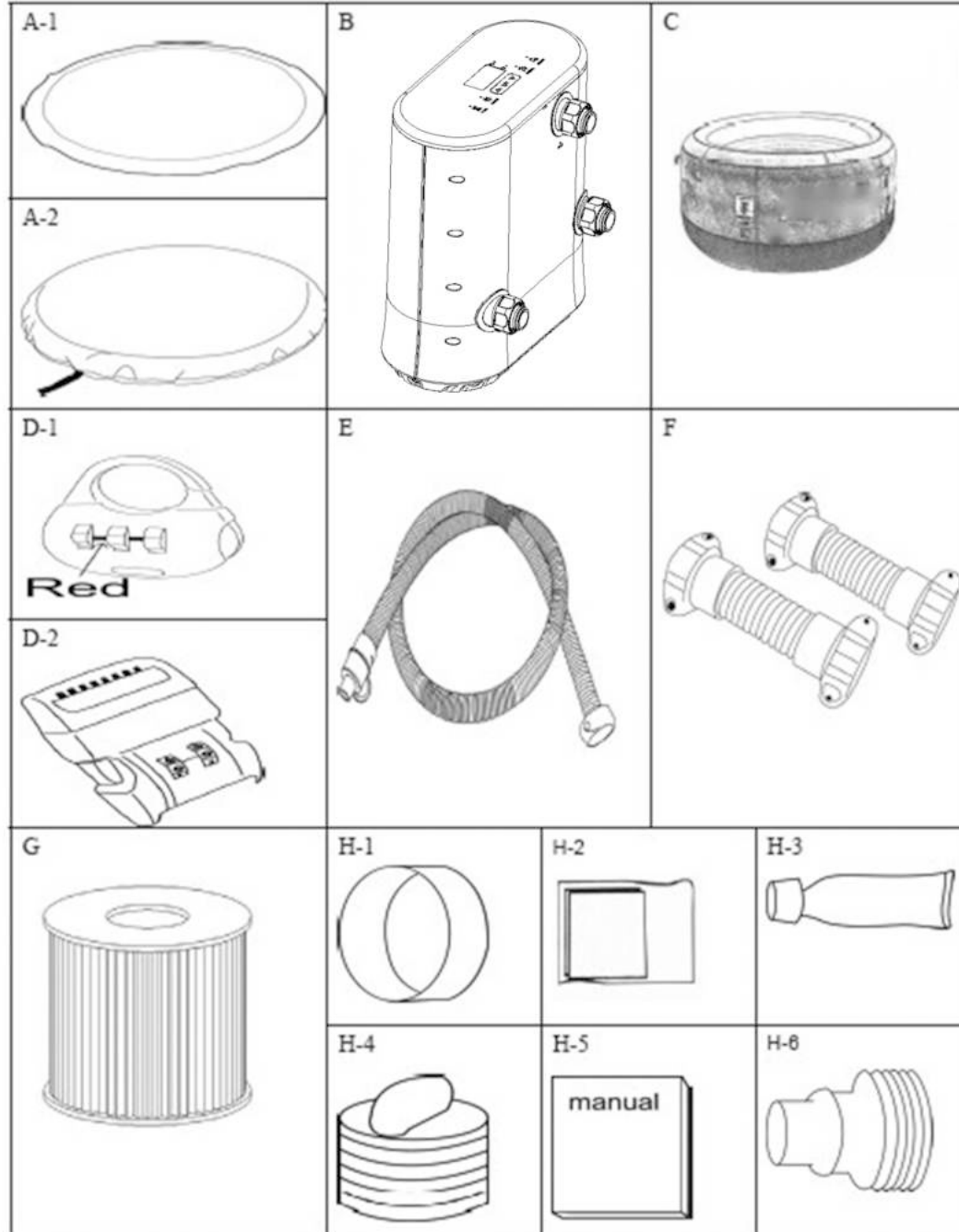
Model	LQ177SPA	
	Europe standard	American standard
Product number		
Accommodated number of person		
Water capacity		
External diameter	”	
Internal diameter	”	
Height	”	
Bubbling Hole		
Rated power	220~240V, 50-60Hz,1545W	110~120V,60Hz,1250W
Heater power	1500W ( water temperature of 20℃ )	1200W ( water temperature of 20℃ )
Bubbling power	650W	650W
Length of power line	5m	5m
Specification on filtering pump	AC 12V/35W 2300L/600gal/H	AC 120V/50W 2300L/600gal/H
Top cover		

## II. Configuration list, disassembly drawing of SPA

**Note:** Check of all accessories

A-1: Water pool cover	A-2: PU leather inflatable top cover	B: Pump
C: SPA water pool	D-1: Cipher lock	D-2: Lock catch of cipher lock
E: Inflatable tube	F: Connection air duck	G: Filter element
H-1: Plug cap	H-2: PVC film	H-3: Glue
H-4: Plug	H-5: Operation Instruction	H-6: Drains joint





## 1.1 Requirements for installation site

**Note: the ground shall be able to bear the weight of the water pool**

**Note: matching drainage system shall be possessed nearby**

**Note: in order to protect against electrical hazards, please do not connect the pump by using the terminal block**

### **IMPORTANT**

The ground where the water filling area shall be smooth, without sharp foreign matters causing damage to SPA. The user shall also take into account the total weight of the user, SPA and water to ensure that the ground where the using area has sufficient strength, and make sure a good drainage system shall be possessed near the installation area. In the event of SPA installation in a place where does not meet the safety requirements, any loss caused is not be covered by the warranty, because it is the consequence caused by improper use of consumers.

a) Indoor installation:

**Some special requirements for indoor installation shall be noted:**

- In the process of SPA installation or filling water or releasing water, water might spill onto the ground, and due to SPA must be drained water, so that in the event that SPA is installed indoors, ground drainage must be installed in door and moisture-proof function must be possessed.
- SPA will generate a lot of water vapor when being use, therefore articles and appliances which are easy to be affected by moisture shall not possessed in the use area, so as to prevent related articles from damage after being affected with damp, at the meanwhile, in order to ensure air quality and user comfort, installation place must be in a good ventilation environment.

**Note:** do not install SPA on carpets or other articles which are easily damaged by water.

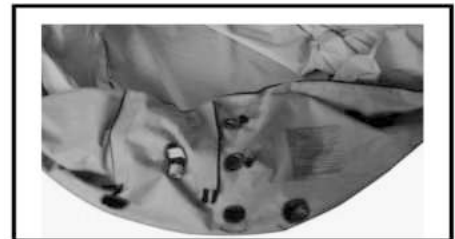
b) Outdoor installation:

- The ground where the water filling area shall be smooth, without branches, stones and other sharp objects nearby.
- Do not use this product in the environment with the ambient temperature lower than 10 degrees Celsius (50 degrees Fahrenheit), because too low ambient temperature will affect the heating effect of SPA;
- In addition, do not expose SPA to the sun for a long time, which will shorten the service life of SPA;
- SPA must be drained water, therefore a good drainage system shall be possessed near the SPA water pool.

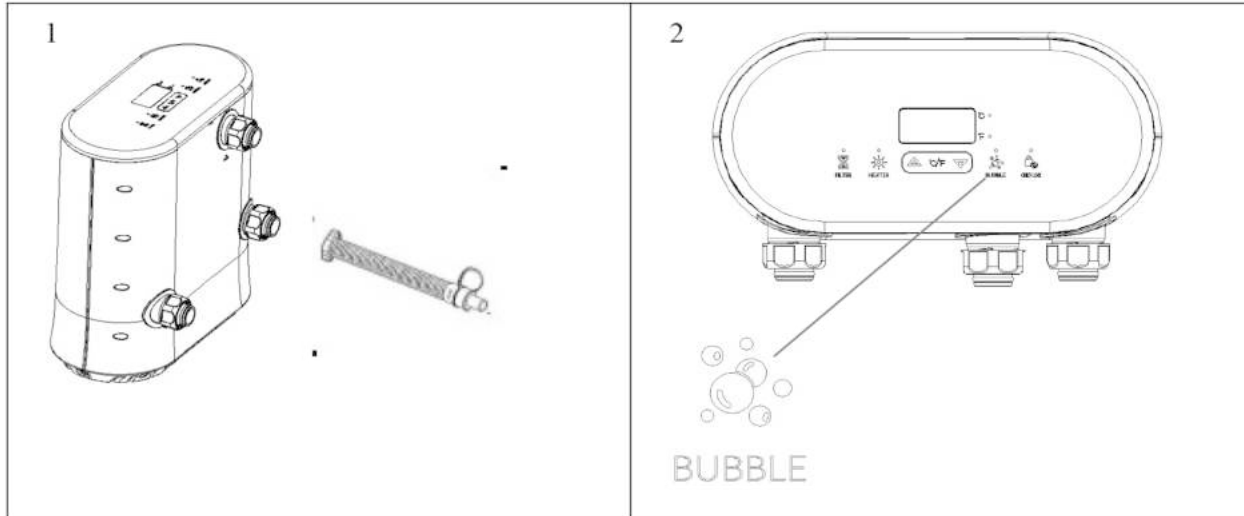
## 1.2 Assembly of SPA water pool

**Warning: please use the matching pump of SPA to inflate the water pool and please do not use other high-pressure air pumps to inflate. The normal use pressure of the water pool is 5.0kPa, and do not inflate water pool too full, because the overpressure will lead to burst of water pool or the damage to joints of water pool.**

a) Open partial SPA water pool and outer layer of water pool to ensure the correct direction, and well connect the protruding parts on the water pool to outer layer of water pool;



b) Connect threaded end of inflation pipe to black interface of the pump to inflate the SPA water pool by using the other end of the inflation pipe (see Figure 1 below);

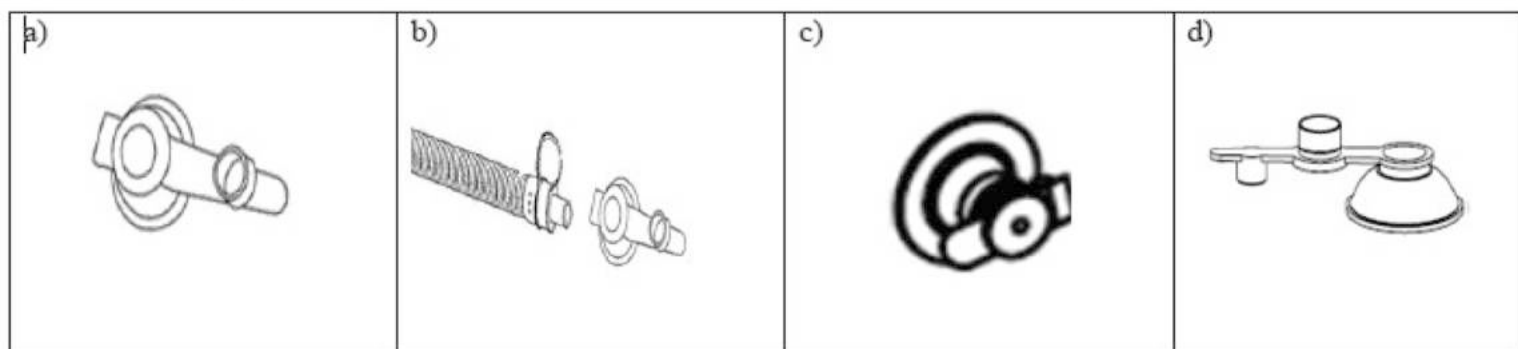


c) Insert power plug of SPA pump into the adaption power socket, and then initiate BUBBLE button of the pump to start to inflate SPA water pool (see Figure 2 above).

The first step is please inflate air chamber till full which is located at the bottom of SPA water pool, subsequently inflate the wall of water pool ring by ring in accordance with the number sequence on it. If the water pool is equipped with a top cover, please inflate the top as well.

**Tip: how to use the safety air plug.**

- Press the black plastic part in the air plug into air plug and open the top cover;
- Insert inflation hose into inlet of air plug, and when inflation is completed, cover top cover of air plug;
- Deflating air: open the valve air plug to deflate air, letting the air slowly leak from the air chamber of the water pool.



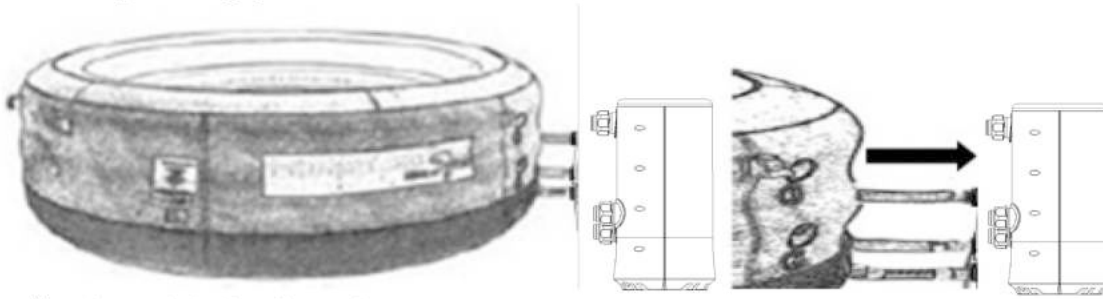
### 1.3 Usage of cipher lock

- » The initial password is 000, which is on the side of the red line.
- » Press and hold the button on the left side of the red line to unlock
- » Press and hold the black button on the right side of the red line, and scroll through the three numbers, to select the number combination that you want to set, and then release the black button to complete the setting of new password
- » Please do not forget your new password!

### 1.4 Pump connected to the water pool

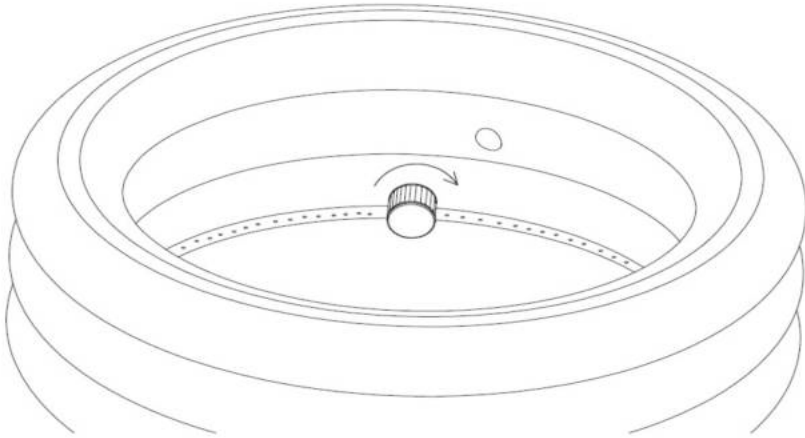
**Note:** the power plug must be pulled out before connecting the pump to the water pool.

» Make sure that the nut of the water pool and the interface of the pump are connected correspondingly.



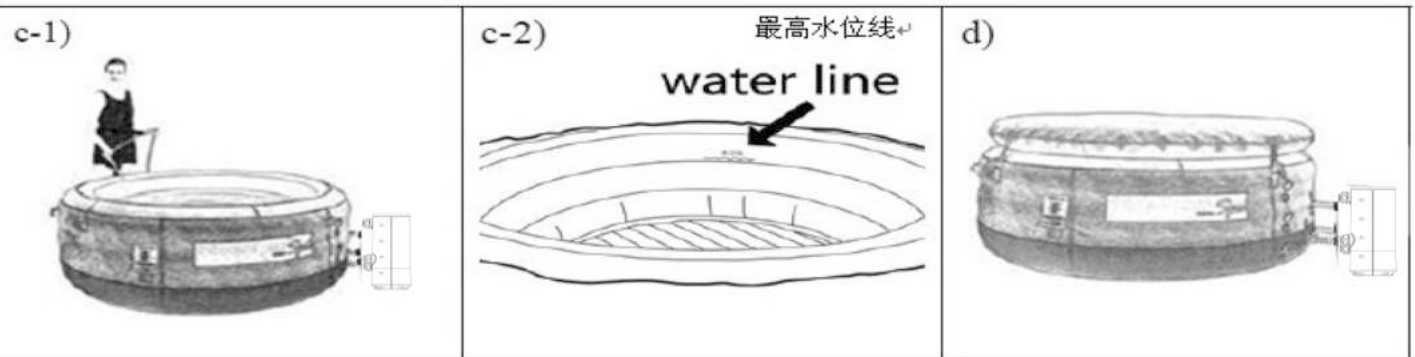
» Assemble the filter element

Screw the filter element into the wall of the water pool and rotate clockwise. (see instructions below)



» Fill the water pool with water

Maximum water level



Fill the water pool with water by water pipe until the water level reaches the water line printed on the inner wall of the water pool

**Warning:**

»» The power plug must be pulled out before filling the water pool with water

»» In addition, someone needs to keep an eye on it in order to prevent it from water leakage caused by water pipe falling off

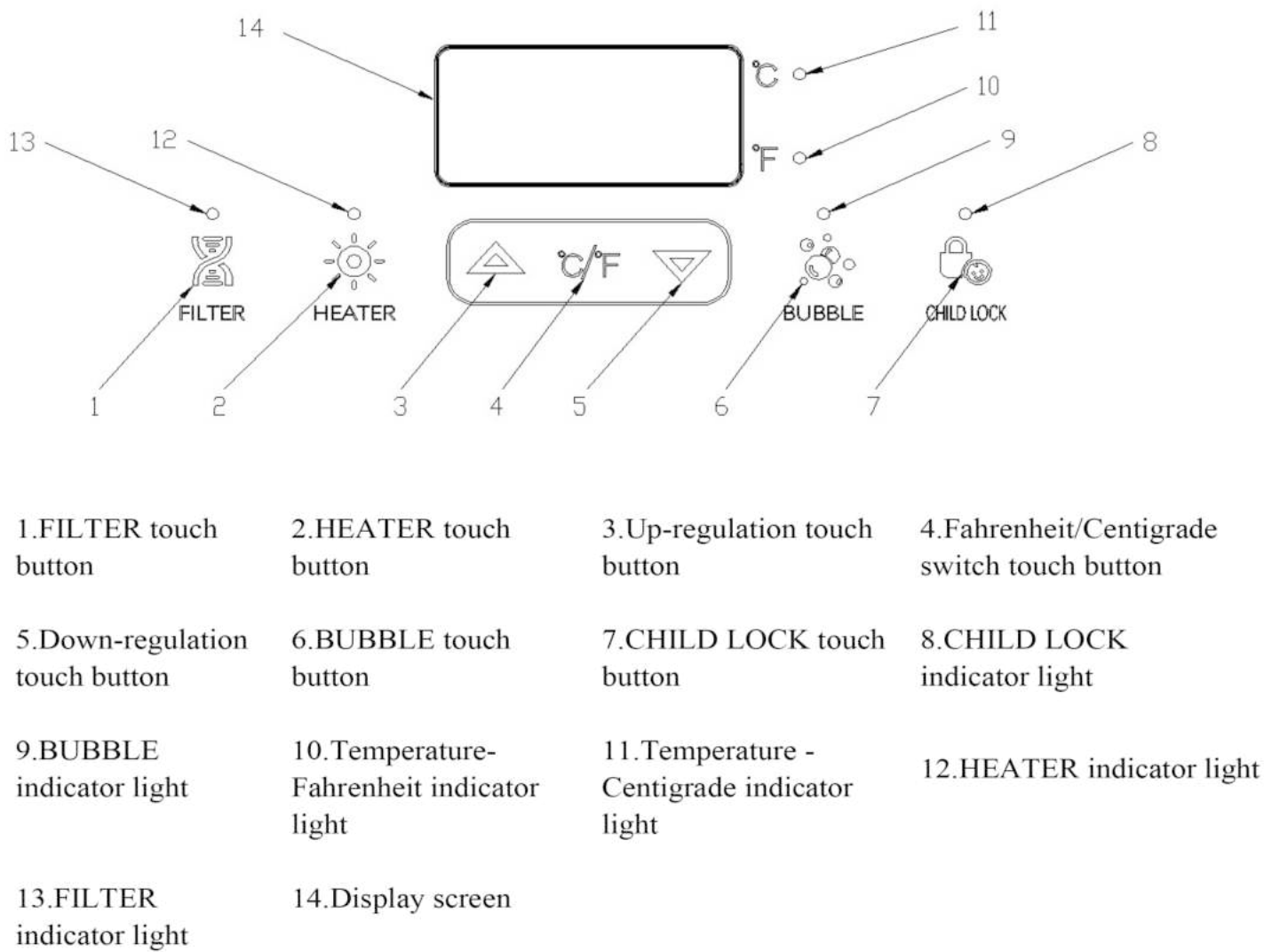
»» Please well cover the water pool when heating up the water inside the water pool.

»» Children like to play with water, please make sure that they use the water pool under the custody of adults

»» When the pool is not in use, please well cover the water pool and lock the cipher lock in order to prevent children from entering in the water pool.





IV. Operation of SAP pump

2.1 Control panel of SPA pump



2.1.1 Please energize the host machine at first and after being connected the Fahrenheit temperature value is on the display screen, in the meanwhile, the temperature - Fahrenheit indicator light is on;

### 2.1.2 "", " " touch button:

(1) Press " " or " " button is able to reset the temperature, you press the " " button one time, the temperature value is increased by 1, in reverse, you press the " " button one time, the temperature value is decreased by 1.

(2) Setting range:

- Setting value of Centigrade temperature: 30~42℃。
- Setting value of Fahrenheit temperature: 86~108°F。

### 2.1.3 Fahrenheit / Centigrade switch touch button:

(1) In the state of displaying Fahrenheit, press this button one time to switch the display to Centigrade; in the state of displaying Centigrade, press this button one time to switch the display to Fahrenheit.

### 2.1.4 BUBBLE touch button:

- (1) When the bubbling function and other functions are turned off, pressing this button one time, the bubbling function is initiated and the BUBBLE indicator light is on. Bubbling function will be stopped automatically after operating for 30 minutes, and the bubbling indicator light will be off. If it is necessary to bubble again, only to repress this button one time, subsequently the bubbling function is turned on and the bubbling indicator light is on.
- (2) In the event of the filtering function on, pressing the BUBBLE touch button, the filtering function is stopped immediately, the FILTER indicator light is off, and the BUBBLE indicator light is on. Bubbling function will be stopped automatically after operating for 30 minutes. In the process of bubbling, pressing the BUBBLE touch button again, the bubbling function is turned off and the BUBBLE indicator light is off, at the meanwhile, the filtering function is initiated and the FILTER indicator light is on;
- (3) In the event of the filtering function and heating function on, pressing the BUBBLE touch button, the bubbling function is initiated and the BUBBLE indicator light is on, at the meanwhile, heating function is stopped automatically, and the FILTER indicator light and HEATER indicator light are off. The bubbling function will be stopped automatically after operating for 30 minutes, or, in the process of bubbling, pressing the BUBBLE touch button, the bubbling function is turned off and the BUBBLE indicator light is off, at the meanwhile, the filter function and heating function are initiated, and the FILTER

indicator light and HEATER indicator light are turned on.



#### 2.1.5 FILTER touch button:

- (1) When the filtering function is turned off, pressing this button one time, the filtering function is initiated and the FILTER indicator light is on; pressing this button one more time, the filtering function is turned off and the FILTER indicator light is off.
- (2) When the filtering function and heating function are on simultaneously, pressing the FILTER touch button again, the heating function and filtering function are turned off at the same time.
- (3) In the event of the bubbling function on, pressing the FILTER touch button and the HEATER touch button, neither the filtering function nor the heating function is able to be initiated.

#### 2.1.6 HEATER touch button:

- (1) When the heating function and filtering function are turned off, pressing the HEATER touch button one time, the FILTER indicator light and HEATER indicator light are on, and the filtering function and heating function are initiated immediately.
- (2) When the heating function is on, pressing the HEATER touch button one more time, the heating function is turned off and the HEATER indicator light is off, but the filtering function is able to be working continuously.
- (3) When the water is heated to the set temperature, it enters into the heat preservation state and the HEATER indicator light flashes. When the water temperature is 2 degrees lower than the set temperature, the heating function is initiated automatically and the HEATER indicator light is on.
- (4) In the event of the bubbling function on, pressing the FILTER touch button and the HEATER touch button, neither the filtering function nor the heating function is able to be initiated.

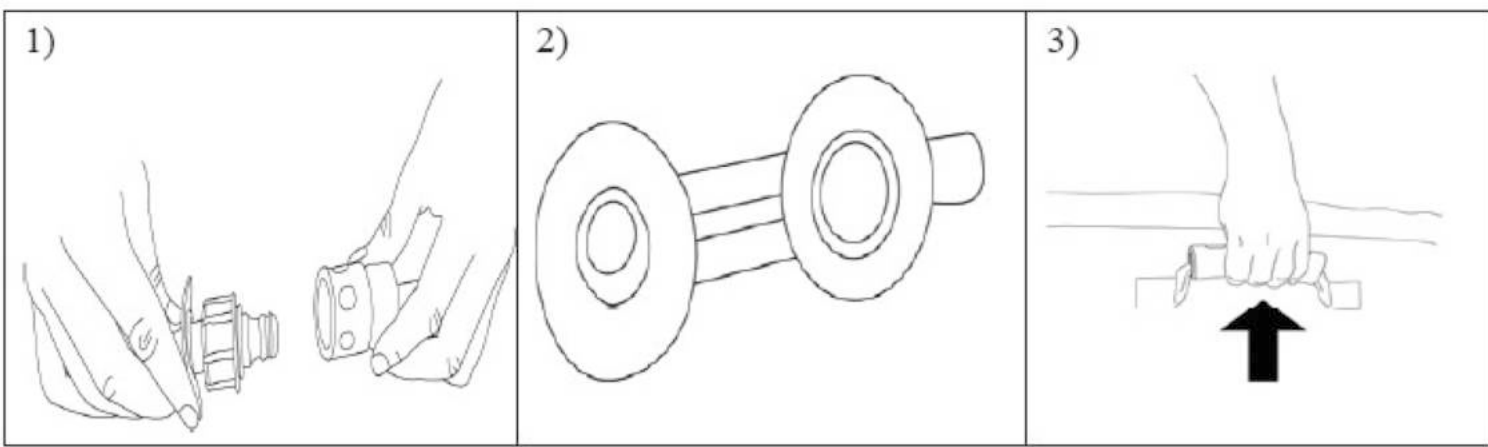
#### 2.1.7 CHILD LOCK touch button:

- (1) Pressing and holding the  button for 5 seconds is able to realize the child lock function, that is, in any state, all buttons are locked and forbidden to use independently. To unlock the child lock, it is only press and hold  again for 5 seconds;

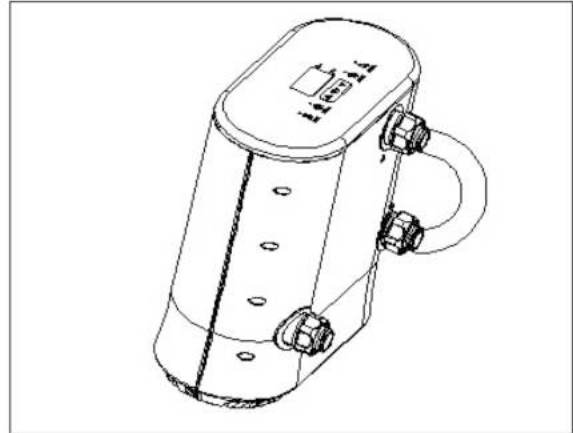
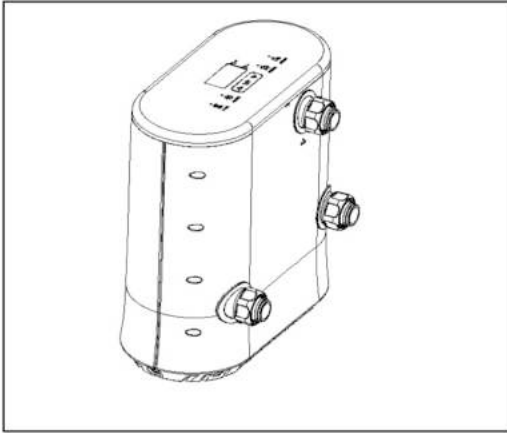
## 2.2 Drainage of SPA pool

- (1) Connect one end of the water pipe at home to the quick connector at the bottom of SPA, and connect the other end of the water pipe to the ground drainage or drainage system at home;





(3) Pour out the water from the SPA pump, and then initiate the BUBBLE touch button of the SPA pump again and enable it to operate for 2-3 minutes, in order to blow out the residual water inside the water pool cavity.



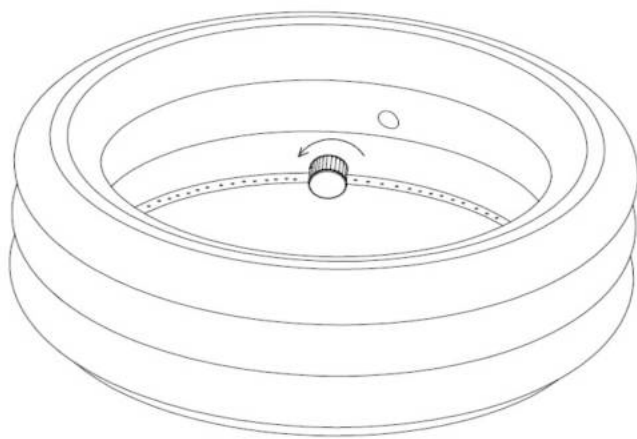
## 2.3 Replacement of filter element of SPA pool

Warning: the circuit breaker must be cut off before beginning spa maintenance or severe risk of injury or death exists.

NOTE: The dirty filter element not only influences the cleaning of water in the water pool, but also affects the heating effect of SPA pump, so that, it is recommended to clean the filter element regularly in accordance with the content from chapter about water treatment.

- (1) Pull out the power plug at first;
- (2) Cover the inlet and outlet with the matching water retaining covers;
- (3) Take the filter element box out by anticlockwise rotation; (Figure 1)
- (4) Filter element is able to be directly rinsed with water (Figure 2), but if the filter element is still dirty or discolored after cleaning, it is recommended to replace the filter element;
- (5) Install the washed filter element back into the wall of SPA water pool.





(1)



(2)

## V. Maintenance of SPA

### 5.1 Requirement of water used for SPA

We require that the pH value of water used in water pool shall be between 6.5 and 8.5, free chlorine between 2-4ppm, of which too low or too high will affect the service life of SPA water pool and its pump, and cause harms to people's health. The damage to SPA caused by the pH value will not be covered by the warranty, so that, we advise to test the water quality with pH test paper before customers use it.

### 5.2 Water treatment of SPA

Note: keeping the water clean in the water pool is very important for your health. We suggest you do the followings:

- (1) Regularly initiate the filtration system of SPA pump itself to filter the water in SPA water pool;
- (2) The filter element of SPA pump must be cleaned every 3 days, and shall be replaced once a week based on the frequency of use;
- (3) Replace the water in the water pool every 3 days and use the clean cloth to wipe off the water pool when the water pool is empty;
- (4) SPA is able to be treated with suitable chemicals. Every day water in SPA water pool is able to be disinfected with appropriate amount of disinfectant, of which is able to kill the bacteria and viruses existing in the water. Please consult the local SPA seller for detailed information before use;

Note:

a) Before using the chemicals used for water pool for SAP, please consult your local SPA product retailer for more information on repairs and please pay close attention to the instructions of chemical manufacturer. Damage to SPA and physical injury due to misuse or improper use of chemicals will not be covered by the warranty.

b) After use of SPA water pool each time, We recommend that you use disinfect the water in

the pool with brominating agent and chemical floater provided by us. Open the cap of the chemical floater bottle at first, and then add some brominating agent, finally cap the bottle. Put the chemical floater into the SPA water pool. We suggest that you turn on the bubbling function while the water in the pool is being disinfected, so that the circulation of water and disinfection of microbial are able to be more fully carried out. Please see the following illustrations:



Warning: do not use the heating function of SPA in the process of disinfection of SPA. The maximum amount of chemicals shall not exceed 20 pieces or else the chemicals will cause damage to SPA. In addition, do not use chemicals containing chlorine, because it will distort the heating system of the SPA.

### 5.3 Cleaning SPA

Dirt on the body and swimming suit and water scale in water pool is easily adhere to the water pool and pump body of SPA after heating, so that it is necessary to wipe the surface of SPA pool with soft cloth dipped with neutral washing products and brush the water scale attached to the inlet and outlet with a fine brush, in order to avoid the water scale blocking the inlet and outlet, thereby affecting the normal use of the pump of SPA.

Note: do not use a hard brush or abrasive cleaner to clean the surface of the water pool. The brush is only used in clean the hard inlet and outlet.

### 5.4 Repairing SPA

If the SPA is punctured to leak, it is able to be mended by the fix patch stickers in the attached repair kit. Before repairing, the water shall be drained and air shall be deflated, and the damaged parts shall be wiped clean. Cut the fix patch sticker into a proper size, apply it with matching glue and stick it on the damaged part. After repairing, do not use the SPA in 12 hours.

### 5.5 Storage of SPA

In accordance with the releasing water steps of SPA mentioned above, make sure that the water in the pool of SPA and in the control box has been drained out. Take the filter element out and wipe the water pool and pump of SPA clean with cotton cloth, which is able to prolong the service life of SPA. It is recommended that you store the SPA in the original package and keep it in a warm and dry place.

Note:

It is strictly forbidden to be stored SPA in the environment below zero degree centigrade. It is easily to become brittle and shorten the service life when the plastic is exposed to low temperature or strong sun for a long time. Damage to SPA due to improper storage in winter is not be covered by the warranty.

In the event that SPA is not used for a long time, the residual water in water pool and pump of

SPA must be wiped dry, or else, odor will be generated caused by deterioration of water quality.

## VI. Common troubleshooting

### 6.1 Common troubleshooting

Fault	Phenomena possibly occurred	Solutions
Spa is unable to run	<ul style="list-style-type: none"><li>✎ not energized</li><li>✎ RCD trip</li><li>✎ RCD damage</li></ul>	<ul style="list-style-type: none"><li>✎ Check power supply</li><li>✎ Reset RCD or power line load is less than 2000W or 10A</li><li>✎ If it is unable to be initiated, please contact after-sales service.</li></ul>
SPA is unable to be heated	<ul style="list-style-type: none"><li>✎ Temperature is set too low</li><li>✎ Filter element is too dirty</li><li>✎ water level too low</li><li>✎ Heater core does not work</li></ul>	<ul style="list-style-type: none"><li>✎ Set a higher temperature</li><li>✎ Clean/replace filter element</li><li>✎ Continuously fill water to raise water level</li><li>✎ Make phonecall for help</li></ul>
The bubbling system does not work.	<ul style="list-style-type: none"><li>✎ Temperature protection after temperature of pump is too high</li><li>✎ Automatically stop after operating for 30 minutes</li><li>✎ Automatically protecting the pump of SPA</li></ul>	<ul style="list-style-type: none"><li>✎ Disconnect the plug and wait for the pump to cool down before re-initiating</li><li>✎ Restart the BUBBLE touch button</li><li>✎ If it is unable to be initiated, please contact after-sales service</li></ul>
Water filtration does not work	<ul style="list-style-type: none"><li>✎ filter element is dirty;</li><li>✎ The inlet and outlet pipes are blocked;</li><li>✎ Filter system is damaged</li></ul>	<ul style="list-style-type: none"><li>✎ Clean/replace filter element</li><li>✎ Check if there is any water scale or other foreign matters is blocked in water inlet and outlet</li><li>✎ If it is unable to be initiated, please contact after-sales service.</li></ul>
Water pool of SPA is leaking air	<ul style="list-style-type: none"><li>✎ Water pool of SPA is damaged</li></ul>	<ul style="list-style-type: none"><li>✎ Use the fix patch stickers provided</li></ul>
Water is not clean	<ul style="list-style-type: none"><li>✎ Filtering time is insufficient</li><li>✎ The filter element is not clean</li><li>✎ Water filled is not clean</li><li>✎ Water treatment is improper</li></ul>	<ul style="list-style-type: none"><li>✎ Add filtration time</li><li>✎ Clean/replace filter element</li><li>✎ Replace the water in the pool</li><li>✎ Refer to the operation of chemical instruction</li></ul>

## 6.2 Fault code and FAQ description:

Fault code	Implication	Fault phenomenon	Cause of fault	Troubleshooting and maintenance
E1	Fault on temperature control sensor	The fault code "E1" is displayed on the digital tube, at this time the heating function is unable to be used and the filtering function and bubbling function are able to be operated normally.	Temperature sensor is short circuit or open circuit	For maintenance with professional tool, please contact customer service
E2	Indication of high water temperature protection	The fault code "E2" is displayed on the digital tube, at this time all functions are unable to be operated.	When the water temperature from the water pool to the pump exceeds 47°C, the electronic control system will automatically carry out electronic protection in order to prevent people from scalding.	<p>Step 1: switch off the power supply</p> <p>Step 2: method of disposal</p> <p>1) Make sure that the water temperature of the water pool is between 20°C and 42°C, reenergizing for checking, after the temperature is normal, the normal display will be restored and the function will be restored.</p> <p>2) Remove the foreign matters at the inlet and outlet of the water pool.</p> <p>Step 3: Energize again to normally use (if the alarm is unable to be cleared, please contact customer service)</p>
E3	ripping alarm of 47°C temperature limiter	The fault code "E3" is displayed on the digital tube, at this time all functions are unable to be operated.	When the water temperature detected by the 47°C temperature limiter is higher than 47°C, trip protection is implemented by the temperature limiter.	<p>Step 1: switch off the power supply</p> <p>Step 2: method of disposal</p> <p>1. Touch the "RESET" button located above the LOGO for resetting.</p> <p>Step 3: Energize again to normally use (if the alarm is unable to be cleared, please contact customer service)</p>

E4	Tripping alarm of 80℃temperature limiter	The fault code "E4" is displayed on the digital tube, at this time all functions are unable to be operated.	When the water temperature detected by the 80℃ temperature limiter is higher than 80℃, trip protection is implemented by the temperature limiter.	<p>Step 1: switch off the power supply</p> <p>Step 2: method of disposal</p> <p>1) Make sure the water temperature is below 42℃</p> <p>2) Remove the foreign matters at the inlet and outlet of the water pool.</p> <p>3) It is recommended to use the product at the ambient temperature of 10-30℃.</p> <p>4) Check if the water pool is air leakage.</p> <p>Step 3: Energize again to normally use (if the alarm is unable to be cleared, please contact customer service)</p>
E5	Tripping alarm of water pressure switch	The fault code "E5" is displayed on the digital tube, at this time filtering function and heating function is unable to be used and the bubbling function is able to be operated.	The mesh on the water inlet and outlet on the wall of water pool is blocked, or the filter element of the pump is too dirty to be blocked, or the water level is too low, or the water pump is damaged, or the water pressure switch is damaged.	<p>Step 1: switch off the power supply</p> <p>Step 2: method of disposal</p> <p>1) Clean the mesh on the water inlet and outlet on the wall of water pool</p> <p>2) Clean the filter element or replace the filter element</p> <p>3) Check if the water level is too low</p> <p>4) Make sure to take out the clear cover of the water inlet and outlet</p> <p>5) Check if the water pool is air leakage.</p> <p>Step 3: Energize again to normally use (if the alarm is unable to be cleared, please contact customer service)</p>
CHG +FIL	Filter element alarm after using for 150 hours	The fault code "CHG-FIL" is constantly displayed on the digital tube, during this alarm period, the product still keeps the original operation mode.	After the filtering or the heating is initiated, reach 150 hours of cumulative filtration working.	<p>1.Clear the alarm by a long press on the FILTER button 3-5s</p> <p>2.Clean the filter element or replace the filter element</p>