

The cover features a light blue background with two large, overlapping circles. The upper circle is white with a light blue center, and the lower circle is light blue with a white center. The text is positioned to the left of these circles.

User Manual for New SPA

NjordBaden

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Please read and follow all instructions in this owner's manual.



Danger! Proceed with extreme caution to prevent the risk of severe injury and/or death.



Warning! Proceed with care to prevent avoidable accidents and potential risks.

1 Important Safety Instructions

Read and follow all instructions

DANGER – Risk of accidental drowning

Do not allow children to be in or around a spa unless a responsible adult supervises them. Keep the spa cover on and locked when not in use. See instructions enclosed with your cover for locking procedures.

DANGER – Risk of injury

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 the flow rates are compatible.

Never operate the spa if the suction fitting or filter baskets are broken or missing. Never replace a suction fitting with one that is rated less than the flow rate marked on the original suction fitting.

DANGER – Risk of electric shock

Install the spa at least 1.5 meters (5 feet) from all metal surfaces. As an alternative, a spa may be installed within 1.5 meters (5 feet) of metal surfaces if each metal surface is permanently bonded by a minimum #8 AWG solid copper conductor to the outside of the spa's control box. Do not permit any external electrical appliances, such as lights, telephones, radios, televisions, and etc., within 1.5 meters (5 feet) of the spa. Never attempt to operate any electrical device from inside the spa.

Replace a damaged power cord immediately.

Do not bury the power cord.

Connect to a grounded, grounding-type receptacle only.

Important Safety Instructions

WARNING – To reduce the risk of injury

The spa water should never exceed 40 °C (104 °F). Water temperatures between 38 °C (100 °F) and 40 °C (104 °F) are considered safe for a healthy adult. Lower water temperatures are recommended for young children and when spa use exceeds 10 minutes.

High water temperatures have a high potential for causing fetal damage during pregnancy. Women who are pregnant, or who think they are pregnant, should always check with their physician prior to spa usage.

The use of alcohol, drugs or medication before or during spa use may lead to unconsciousness, with the possibility of drowning.

Persons suffering from obesity, a medical history of heart disease, low or high blood pressure, circulatory system problems or diabetes should consult a physician before using the spa.

Persons using medications should consult a physician before using the spa since some medications may induce drowsiness while others may affect heart rate, blood pressure and circulation.

HYPERTHERMIA DANGER

Prolonged exposure to hot air or water can in 4 °C (39 °F) above 37 °C (99 °F). While hyperthermia has many health benefits, it is important not to allow your body's core temperature to rise above 39.5 °C (103 °F).

Symptoms of excessive hyperthermia include dizziness, lethargy, drowsiness and fainting. The effects of excessive hyperthermia may include:

- Failure to perceive heat
- Failure to recognize the need to exit spa or hot tub
- Unawareness of impending hazard
- Fetal damage in pregnant women
- Physical inability to exit the spa
- Unconsciousness

Safety Instructions / Preparing for Your New Spa

WARNING: The use of alcohol, drugs, or medication can greatly increase the risk of fatal hyperthermia.

WARNING: People with infectious diseases should not use a spa or hot tub.

WARNING: To avoid injury, exercise care when entering or exiting the spa or hot tub.

WARNING: Do not use drugs or alcohol before or during the use of a spa or hot tub to avoid unconsciousness and possible drowning.

WARNING: Do not use a spa or hot tub immediately following strenuous exercise.

WARNING: Prolonged immersion in a spa or hot tub may be injurious to your health.

CAUTION: Maintain water chemistry in accordance with manufacturer's instructions.

Please read the instructions carefully and use according to the instructions.

Children should use this product under the close supervision of adults.

WARNING: All electrical hookups must be performed by a licensed electrician.

WARNING: Spas with a cord must be connected to a dedicated 115-volt, 20-amp, GFCI-protected, grounded circuit. Spas without a cord must be connected to an electrical subpanel containing dedicated GFCI breakers to supply

WARNING: Removing or bypassing any Ground Fault Circuit Interrupter (GFCI) breaker will result in an unsafe spa and will void the spa's warranty.

2 Preparing for Your New Spa

2.1 Pre-Delivery Checklist

Most cities and counties require permits for exterior construction and electrical circuits. In addition, some communities have codes requiring residential barriers such as fencing and/or self-closing gates on property to prevent unsupervised access to the property by children. Your dealer can provide information on which permits may be required and how to obtain them prior to the delivery of your spa.

Preparing for Your New Spa

Before Delivery

- A) Plan your delivery route
- B) Choose a suitable location for the spa
- C) Lay a 20 cm concrete slab
- D) Install dedicated electrical supply

After Delivery

- A) Place spa on slab
- B) Connect electrical components



2.2 Planning the Best Location

Safety First

Do not place your spa within 3 m (10 feet) of overhead power lines.

Consider How You Will Use Your Spa

How you intend to use your spa will help you determine where you should position it. For example, will you use your spa for recreational or therapeutic purposes? If your spa is mainly used for family recreation, be sure to leave plenty of room around it for activity. If you will use it for relaxation and therapy, you will probably want to create a specific mood around it.

Plan for Your Environment

If you live in a region where it snows in the winter or rains frequently, place the spa near a house entry. By doing this, you will have a place to change clothes and not be uncomfortable.

Consider Your Privacy

In a cold-weather climate, bare trees won't provide much privacy. Think of your spa's surroundings during all seasons to determine your best privacy options. Consider the view of your neighbors as well when you plan the location of your spa.

Provide a View with Your Spa

Think about the direction you will be facing when sitting in your spa. Do you have a special landscaped area in your yard that you find enjoyable? Perhaps there is an area that catches a soothing breeze during the day or a lovely sunset in the evening.

Keep Your Spa Clean

In planning your spa's location, consider a location where the path to and from the house can be kept clean and free of debris. Prevent dirt and contaminants from being tracked into your spa by placing a foot mat at the spa's entrance where the bathers can clean their feet before entering your spa.



Guide to Transportation, Placement, and Installation of the Heat Pump

When transporting or storing the Heat Pump in. temp mini, do not lay it on its side. It must be placed upright to prevent issues such as internal component compression, pipeline breakage, fin damage, and refrigerant leakage.

Additionally, after being transported to the factory or customer site, it should be kept idle for more than 24 hours before powering on or testing.

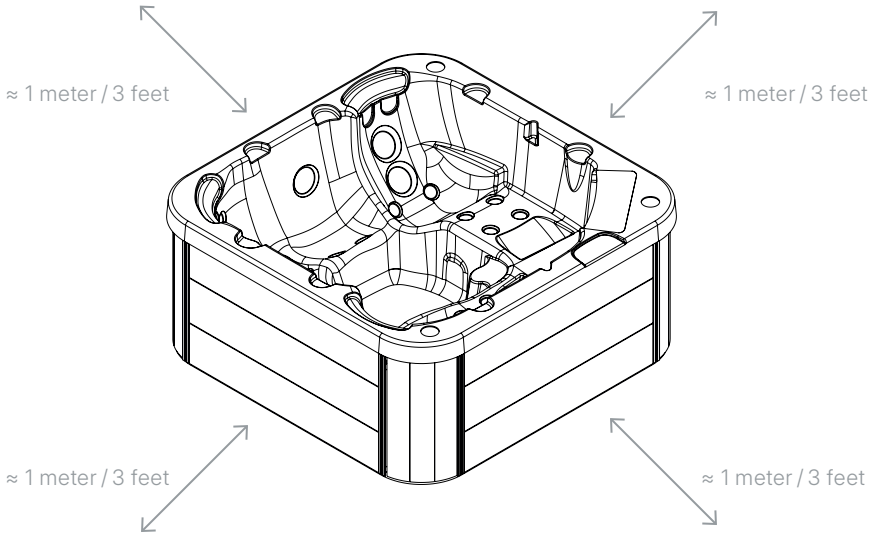
Note: Suitable for products with a built-in intem. mini heat pump

2.3 Clearance for Service Access

While you are planning where to locate your spa, you need to determine how much access you will need for service. All spa models require a minimum of 1 meter (3 feet) access to all sides of the spa for potential service. For this reason, the spa should never be placed in a manner where any side is permanently blocked. Examples include placing the spa against a building, structural posts or columns, or a fence. Spa models require access to all sides in case they need service or repair. See the figure on the next side. If you are planning to enclose or surround your spa with a deck, make sure there is easy access for service or repair.

Preparing for Your New Spa

Spas require clearance on all sides of the spa.



2.4 Opening the Front Door Panel for Electrical Hookup

The following electrical connections must be performed by a licensed electrical contractor. Unscrew and remove the two corner panels on each side of the spa's front door.

2.4.1 The first way to remove and install the skirt

Remove



1.



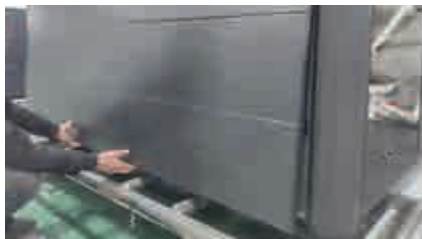
2.



3.



4.



5.

Install



1.



2.



3.



4.



5.

Preparing for Your New Spa

2.4.2 The second way to remove and install the skirt

Remove



1.



2.



3.



4.



5.



6.

Install



1.



2.



3.



4.

Continued on the next page...



5.



6.

2.4.3 The third way to remove and install the skirt

Remove



1.



2.



3.



4.

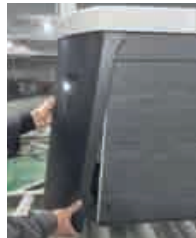
Install



1.



2.



3.



4.

Preparing for Your New Spa

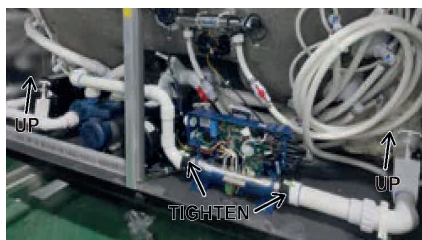


Pictured to the left is the inside of the spa behind the front door. The electrician now has access to connect the spa for power. While the front door is off, refer to instructions below on ensuring the plumbing fittings are secure (but do not be tempted to over-torque or over-tighten these fittings).

2.5 Filling and Powering Up Your Spa

A) Inspect the spa equipment

Inspect all plumbing connections in the equipment area of your spa. Make sure unions in the equipment pack are tight. (Be careful not to over-tighten the plumbing fittings.)



Never run the spa with the gate valves closed or without water circulating for long periods of time.

B) Remove the cartridge from filter canister

If you have a skimmer like this:



Grip the filter by the handle and unscrew it from the canister. Never try to pull the filter cartridge while the spa is running in low or high speed (i.e., any speed).

If you have a skimmer like this:



Remove the black skimmer cap and barrel, grip the filter by the handle and unscrew it from the canister.

Teleweir Mega filter skimmer

- 7 square meter / 75 square feet filtration
- Smooth cap

If you have a skimmer like this:



Rotate and remove the black locking ring. Remove the black skimmer cap and barrel, grip the filter by the handle and unscrew it from the canister.

Replace and lock the locking ring and slide the skimmer cap and barrel back in the canister.

Note: The skimmer cap and barrel were locked in place at the factory to prevent damage during shipment. It must be unlocked and replaced in the filter canister so that it can float when the spa is filled. If you do not remove the cap and barrel, your spa's filtration system will not perform as it was designed to.

Teleweir filter skimmer

- 4.6 square meter / 50 square feet filtration
- Spoked cap



After you remove the filter, remove the plastic wrapper and soak it in water for 30 minutes before you replace it. A dry filter can allow air into the filtration system which can cause the pump to fail to prime.

Preparing for Your New Spa

If you have a skimmer like this:

Loosen the filter exhaust valve counterclockwise, then let the air exhaust from the filter.



1. Filter exhaust valve



2. Loosen valve counterclockwise



3. Air exhaust

Regularly cleaning your filter is the simplest and most effective way to maintain clear water. A dirty filter can cause power and system issues. Here are some steps about how to change the filter.



1. Loosen the locking ring



2. Remove the filter cover...



3. ... and the whole filter



4. Remove the old filter and insert the replacement; repeat the previous steps



Special Note

To ensure optimal performance of the equipment after each refilling, please follow these steps:

1. Connect the power supply and activate the control panel to start the equipment.



2. Allow the equipment to operate for 20–30 seconds. Then, bleed the filter for 20–40 seconds by opening the bleeder valve on one side of the filter cover (refer to the figure). When water flows out from the filter vent, tighten the filter approximately 5–10 seconds after water appears.
3. Completing these steps will ensure the circulation pump operates at its peak performance.
4. If the control panel indicates that the circulation pump is functioning normally but there is no water circulation in the pipeline, please repeat steps 1 and 2. (*this is a rare occurrence*)

C) Fill the spa

Place a garden hose in the filter canister and fill your spa.



Always fill the spa through the filter canister. Failure to do so may cause air to be trapped in the filtration system and prevent the pumps from operating properly.



Fill the spa until water level is about six inches from the top. If the water level is too low or too high, your spa will not operate properly.



Never fill your spa with soft water!

Soft water makes it impossible to maintain the proper water chemistry and may cause the water to foam, which will ultimately harm the finish of the spa and void your warranty. You may fill your spa with **well water** provided the following conditions are met:

- A) Purchase and use a pre-filter to run the well water through on the fill up. The pre-filter will be placed before the spa filter in the fill-up flow of water.

Preparing for Your New Spa



B) Have a Total Dissolved Solids (TDS) and metals test performed by a qualified person after the fill-up process but before any spa use.

D) Turn on power to the spa

When the spa is filled to the correct level, turn on the power at the GFCI breaker. (Ensure that the 120 V spas are connected to the proper electrical outlet.)

E) Install the filter into the filter canister



Make sure the filter has soaked at least 30 minutes before you install it. Insert the filter all the way and screw it in. Do not over-torque the cartridge during installation, just hand tighten gently.

F) Adjust water chemistry

Test and adjust the water chemistry. See the section for instructions on keeping your water clear. (see page 44)

G) Let the spa heat up

When the spa has finished priming, the heater will activate. Put the cover on and let the spa heat to the set temperature.

Preparing for Your New Spa / Spa Control Panel

2.6 Priming the Pump

New spa owners often have difficulty the first time they start their spa and the pump fails to prime. This can be frustrating, but these simple instructions can help you.

Sometimes air can become trapped in the pump while filling the spa. You will know this has happened when after you have filled and started the spa, the pump does not seem to function. You will hear the pump operating, but no water will be moving.



The pump will not work properly while air is trapped in it. Continuing to operate the pump in this way will cause damage.

Whenever you fill your spa, fill it through the filter canister and make sure all jets are open.

3 Spa Control Panel

3.1 Panel description, dimensions

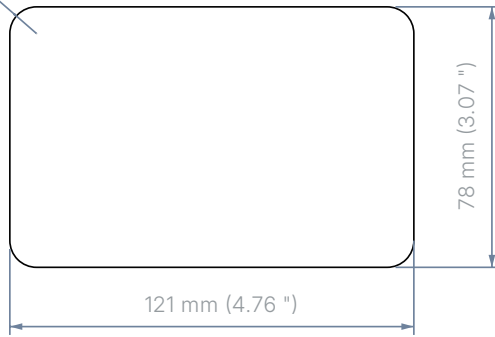
5.0 inch TFT color display screen, touch screen



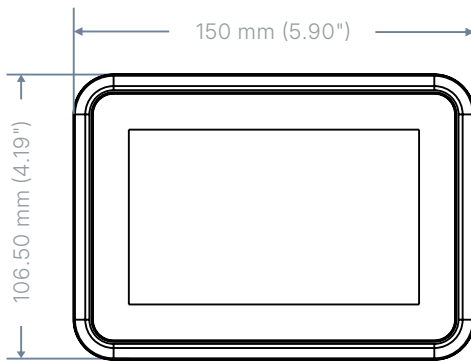
PB565-001 control panel design

Spa Control Panel

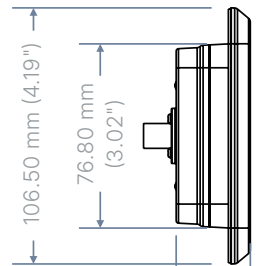
R 8 mm (0.31")



Suggested hole size

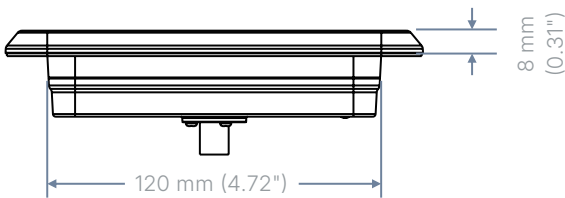


Front view

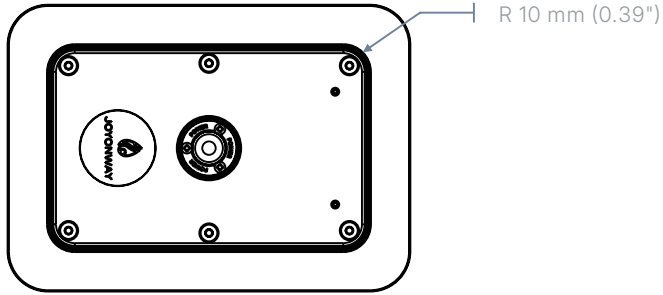


Left view

23.50 mm (0.92")

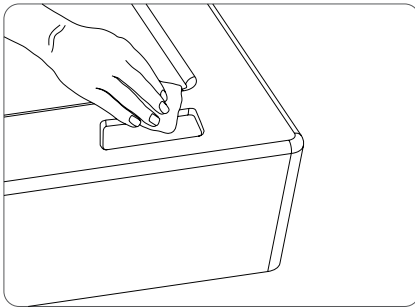


Vertical view

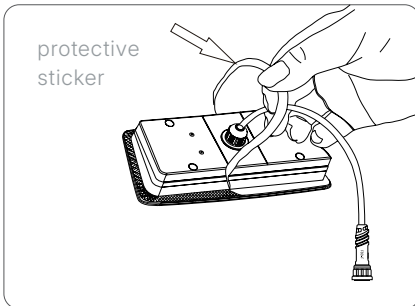


Back view

3.2 Control Panel Installation Instructions

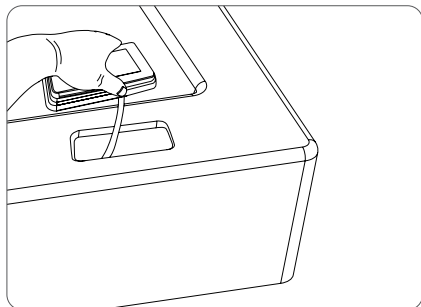


1. Make a hole in the appropriate position of the hot tub according to the size of the control panel, and clean the surrounding area of the hole, especially burrs, debris, etc., to ensure that the control panel can stick on firmly.

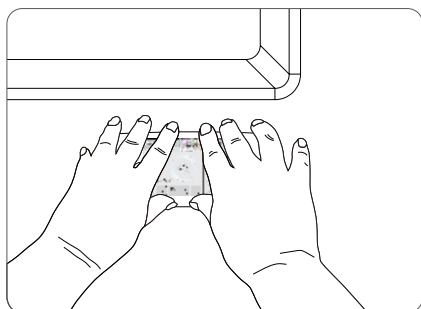


2. As shown in the figure, remove the adhesive protective sticker from the control panel. **Special attention:** It is strictly prohibited to touch adhesive with hands; it is prohibited to have water or other impurities from touching the adhesive surface; Install the control panel onto the tub within 60 seconds after removing the adhesive sticker.

Spa Control Panel



3. As shown in the figure, after removing the with the adhesive protective sticker, install the control panel at the cleaned hole.



4. As shown in the figure, after the control panel is installed, press the control panel tightly with hands for 60 seconds and push the control panel back and forth for 5–10 times.

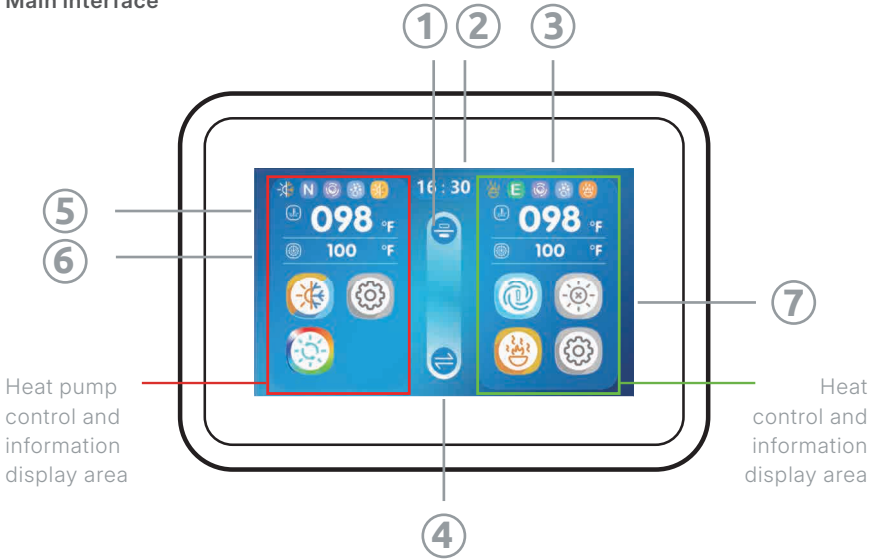
3.3 Button description



Warning

1. Please connect power by strictly following the SPA wiring diagram.
2. Please do not power on the SPA until the water level reaches the water level line inside the tub.
3. Please set the date and time before using the SPA control system.

Main interface



①



Screen reverse icon

②

16 : 30

Current time

③



The status of the functions in operation



Ozone working



NOR mode is on



Heater working



ECO mode is on



Heat pump cooling



Heat pump heating



The circulating pump is in operation

Spa Control Panel

④



The display position is mirrored interchangeably

⑤



Current water temperature (°F/°C)

⑥



Preset heating temperature (°F/°C)

Click to switch temperature units

Click to enter the temperature setting interface

⑦



Touch the function icon to change the function status or enters the function page.



Touch the function icon to change the function status or enters the function page.

The water pump will automatically shut down after working for 30 minutes.



Pump 1



Light off



Heat Pump



Light on



Heat



Settings



Ozone

3.4 Wi-Fi connection and application

The control panel also has a Wi-Fi function, so you can control it safely and conveniently via the application that you can download below.



Download QR code for **Android**




Download QR code for **iPhone**

Depending on the system configuration, some of the content mentioned in this manual may not appear on your system.

3.5 How to enter the setting interface

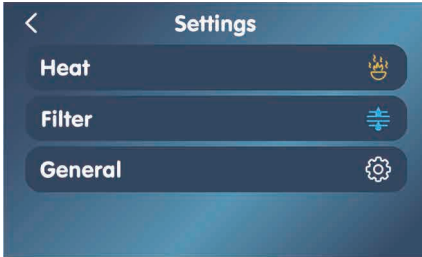


Touch the icon  to enter the setting interface.

Spa Control Panel

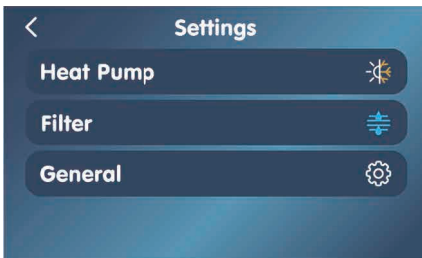
3.6 Settings

Heat Interface



- 1 Heat
- 2 Filter
- 3 General

Heat Pump Interface

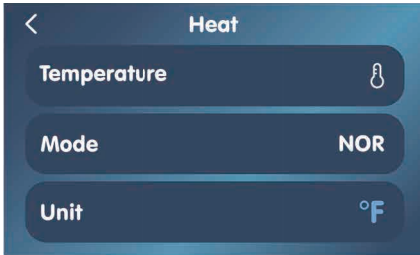


- 1 Heat Pump
- 2 Filter
- 3 General

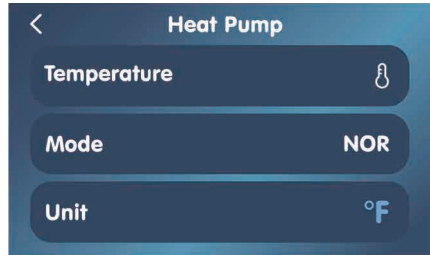
Details are as follows on the next page...

1

Heat

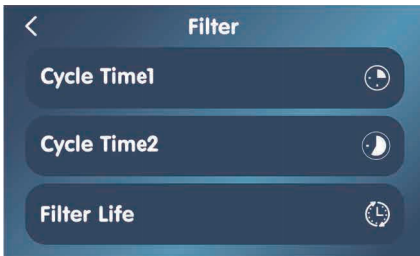


Heat Pump



2

Filter

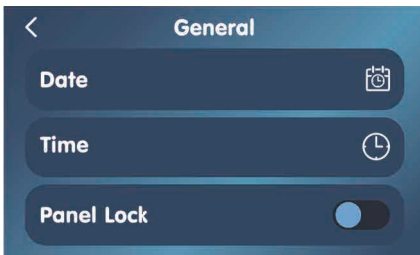


Heat Pump Filter



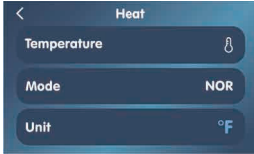
3

General



3.6.1 Settings/Heat & Heat Pump

1 Heat



Interface overview

- 1 Temperature
- 2 Mode
- 3 Cycle Time
- 4 Unit

1 Heat Pump

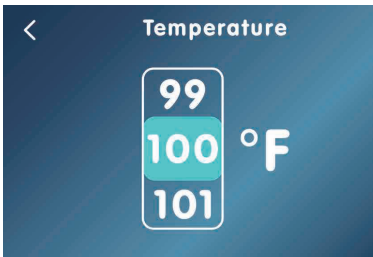


Interface overview

- 1 Temperature
- 2 Mode
- 3 Cycle Time
- 4 Unit

Details are as follows...

1 Temperature



Adjust the preset temperature value. Find the *Temperature* function by sliding up and down. Touch *Temperature* and enter its interface. Slide white box up and down to adjust the value.

The temperature setting range is from 50 °F to 104 °F / 10 °C to 40 °C. When the heating function is activated, this temperature value will be the operating target.

2 Mode

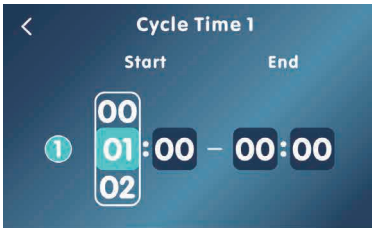
Mode NOR

NOR: The heating /cooling is turned on all day long.

Mode ECO

ECO: The heating /cooling is only turned on during Cycle Time.

3 Cycle Time 1/2



How to adjust the heating time period: Slide the screen to select *Cycle Time 1* or *Cycle Time 2* to enter the interface, touch **1** to start, and then adjust the value by sliding the white box up and down.

Set the daily heating operation time period and its on or off.

1 ON: The heating will start running within the set time period everyday.

1 OFF: This time period has no effect on the heating operation.

4 Unit

Unit °F

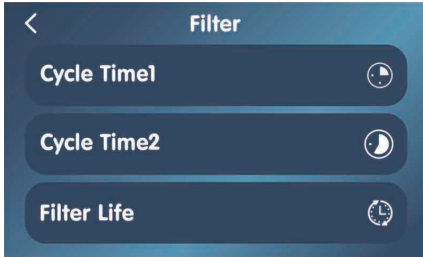
Find *Unit* by sliding up and down. Touch *Temperature Unit* to switch between °C/°F temperature units.

Unit °C

After setting the °C/°F temperature unit, all the temperature units in the system will be based on it.

3.6.2 Settings/Filter & Heat Pump Filter

2 Filter



————— 1 Cycle Time

————— 2 Filter Life

2 Heat Pump Filter



————— 1 Cycle Time

————— 2 Filter Life

Details are as follows...

1 Cycle Time 1/2



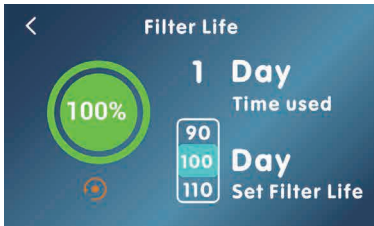
How to adjust the filtering time period: Slide the screen to select *Cycle Time 1* or *Cycle Time 2* to enter the interface, touch **1** to start. And then adjust the value by sliding the white box up and down.


Set the daily filtering running time period and its on and off.

1 ON: Filtering will start running within the set time period everyday.


1 OFF: This time period has no impact on the system filtering operation.

2 Filter Life



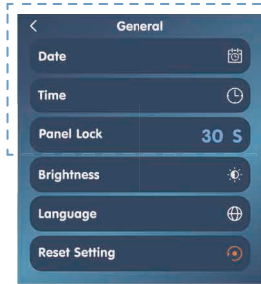
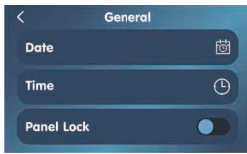
On the filter usage interface, slide the screen to select the *Filter Usage* function, and adjust the value by sliding the white box up and down. Press and hold  to reset the used time to 0.

1 The number of days the filter has been used is displayed.

 The preset usage days of the filter are displayed.

3.6.3 Settings/General

3 General

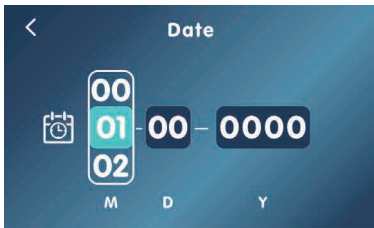


- 1 Date
- 2 Time
- 3 Panel Lock
- 4 Brightness
- 5 Language
- 6 Reset Setting

Interface overview

Details are as follows...

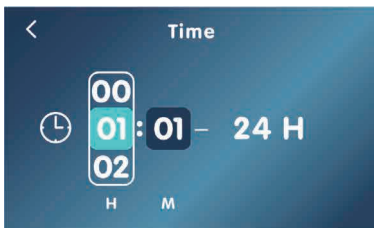
1 Date



Adjust the date. Touch the *Date* function to enter this interface, and then adjust the value by sliding the white box up and down.

Set the current date, and the system date will be based on this.

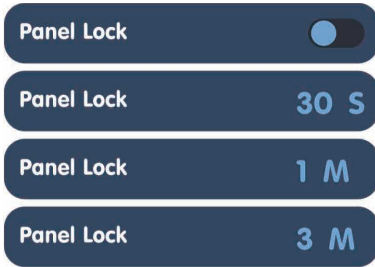
2 Time




Adjust the time. Touch the *Time* function to enter this interface, and then adjust the value by sliding the white box up and down.

Set the current time, and the system time will be based on this.

3 Panel Lock




Adjust the automatic screen lock time. Touch the *Panel Lock* function to cycle through  /30 S/1 M/3 M.

 Automatic screen lock turned off.

30 S When it reaches 30 seconds without operating on the system, the screen will be locked.

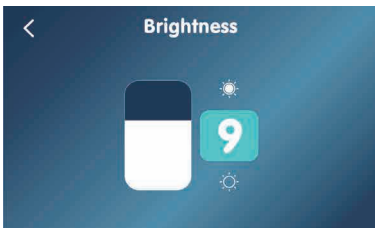
1 M When it reaches 1 minute without operating on the system, the screen will be locked.

3 M When it reaches 3 minute without operating on the system, the screen will be locked.

When locked, the screen brightness decreases and the  icon appears on the screen, and the functions cannot be controlled by touches.

Unlocking the screen: When the screen is locked, press on the screen and slide to unlock it.

4 Brightness

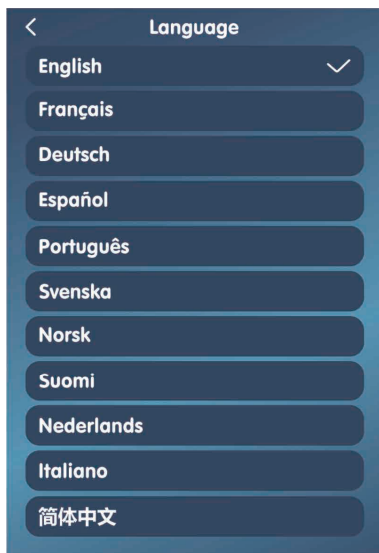




Adjust the screen brightness: press *Brightness* to enter this interface, and then adjust the value by sliding up and down.

The screen brightness range is 1-16.

Spa Control Panel

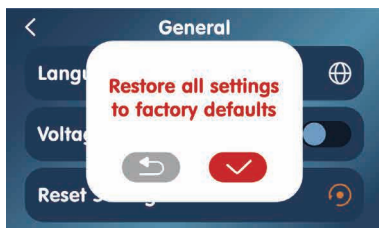
5 Language






Language change: Press *Language* to enter this interface. After selecting the language by pressing , press  in the upper left corner to return to the main interface.

The system will display the interface in the corresponding language.

6 Reset Setting



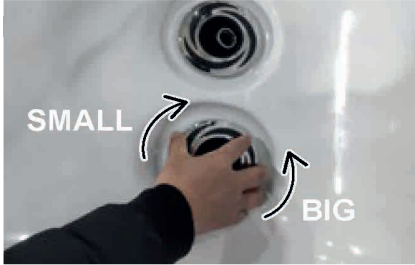
Reset: press *Reset Setting*, and select  to complete the reset.

-  Return
-  Reset confirmation

The reset operation restores all settings to their factory default values!

4 Operating Your Spa

4.1 Jets



Almost all of the jets in your spa are adjustable. Rotating the face of an adjustable jet to the left will decrease the amount of water flow through the jet. Rotating the face of an adjustable jet to the right will increase the amount of water flow through the jet. (see example shown here) Neck jets adjust in the opposite directions.

4.2 LED Lighting

Press the *LIGHT* button on the topside control panel to turn the spa light on. If your spa has perimeter LED lights, they will also light up at the same time as the spa light.

The LEDs operate in three modes

Cycle – When you continually press the *LIGHT* button, the LEDs will cycle through the three main LED colors (Red, Green, and Blue) or combinations of the three that produce the following colors: light green, purple, light blue, yellow, etc. Each time you press the button, you immediately advance to the next color in sequence or eventually a different light pattern.

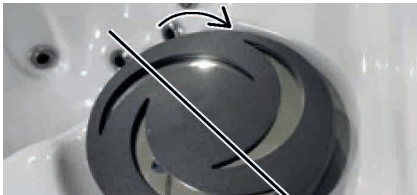
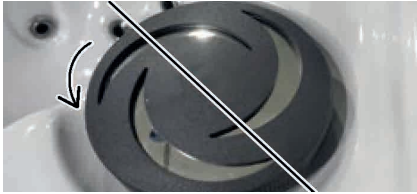
Flashing – When you are cycling through all the colors, the next time you push the *LIGHT* button, the LED lights may start flashing. This is another normal operational pattern option.

Fading cycle – The next phase of operation when you push the *LIGHT* button is a slow and/or fast fade random transition from one color to the next.

Spas with exterior LED lighting generally work in the same mode as described above. The variations in color and patterns provide you with multiple options to suit almost any lighting preference. Press the Light key to turn light on. Press the Light key a second time to turn light off.

Operating Your Spa

4.3 Diverter Knobs



Diverter knobs are the 2" knobs located around the top of your spa. They allow you to divert water through jets from one side of the spa to the other, or in most cases from floor jets to wall jets. This is accomplished by rotating the diverter knob to the left (counterclockwise), decreasing the amount of water flow through a section of jets. To increase the amount of water flow through the other section of jets, rotate the handle to the right (clockwise).

4.4 Air Valve



Air venturis are the 1" knobs located around the top of your spa. Each one will let you add a mixture of air with the jet pressure. This is accomplished by rotating the air venturi knob to the left (counterclockwise) to increase the amount of airflow through the jets. To decrease the amount of airflow through the jets, rotate the handle to the right (clockwise).

4.5 Waterfalls



Some spa series include optional waterfalls. When the booster pump is on, rotate the dial on top (for the cascade waterfall) (see pictures).



5 Cleaning and Maintenance

5.1 Removing and Reseating the Pillows

You can remove the pillows for cleaning and maintenance quickly and easily. This method works for all types of pillows. Grab the lower edge of the pillow with both hands firmly and pull up. As you do this, the pillow inserts will pop out of the holes. Reseat the pillows by aligning the pillow inserts with the holes and striking the pillow hard enough to insert the pegs back into the holes.



1.



→



→

Continued on the next page...



2.



→



→

5.2 Jet Removal and Replacement

Screw-in jet removal

Grasp the outer rim of the jet and turn it counter-clockwise. The jet will unscrew from the fitting until it is free. To replace the jet, place it in the fitting and turn it clockwise until it is snug in place and it can be rotated freely about half a turn. Do not overtighten the jet.



1.



2.



3.



4.

5.3 UV

Instruction on use, installation and precautions

1. This product is suitable for hot tub and swimming pool products, has the function of purifying water source, eliminating peculiar smell and so on.
2. Please install in a flat position inside the hot tub.
3. Wear cotton gloves when touching the UV lamp or glass tube.
4. UV lamp has harm to the person, when the UV lamp is on, your eye cannot look directly at the lamp.
5. When the products working normally, the indicator light turns green. If the indicator light turns red, the UV lamp is reach to lifetime or it is damaged.

- Every 3 months of use of this product is a cycle. The dirt on the surface of the glass tube should be cleaned to ensure that the product can effectively purify the water.
- If the product is not used for a long time, must run out the water inside the tube to avoid water get freezes and damage the products.

Model: **UV-C-15**

TECHNICAL DATA

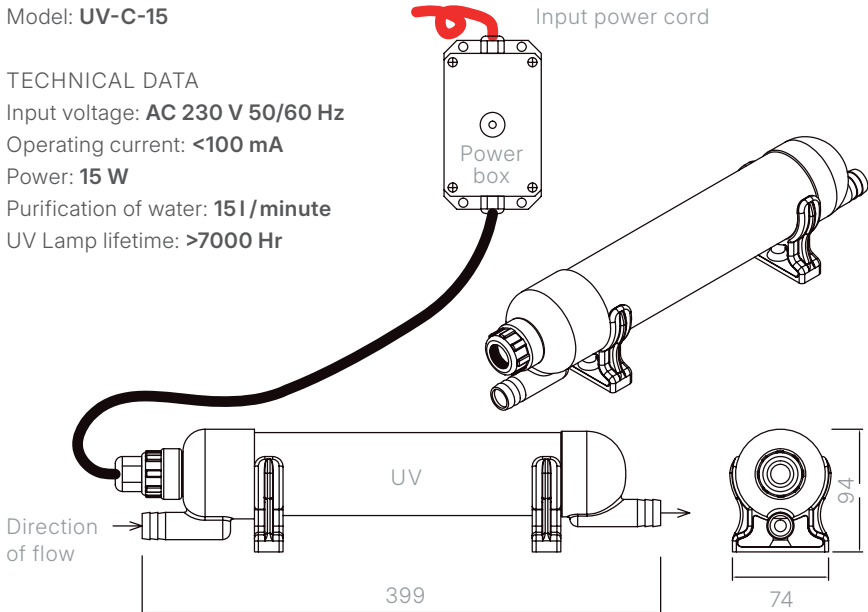
Input voltage: **AC 230 V 50/60 Hz**

Operating current: **<100 mA**

Power: **15 W**

Purification of water: **15 l/minute**

UV Lamp lifetime: **>7000 Hr**



5.4 Draining Your Spa

Your spa should be drained every four to six months for cleaning and maintenance and refilled with fresh tap water. For instructions on cleaning the shell, cover, and pillows (see page 42). For instructions on refilling your spa (see page 12). Before you begin, turn off power to the spa at the breaker and remove all filters.

5.4.1 Opening the Drainage Port

1. Locate your drain

Turn the grey knob 90 degrees clockwise, then pull out the blue plastic part.

Cleaning and Maintenance

2. Remove the cap

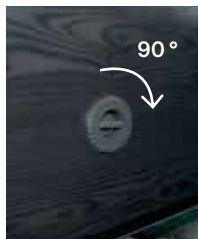
Turn the grey cap counterclockwise until it is fully removed.

3. Connect valve

Attach the black connector (to connect a hose for drainage), turn it clockwise, and tighten it.

4. Drain the spa

Continue turning the blue part clockwise to begin draining.



1.



2.



3. Remove the cap



4. Attach the connector



5. Open the Drainage

5.4.2 Closing the Drainage Port

Reverse the steps in the following order

- Turn the grey knob 90 degrees clockwise, then pull out the blue plastic part.
- Turn the blue part counterclockwise to stop draining.
- Turn the black connector counterclockwise and remove it.
- Push the blue plastic part back into place, ensuring it is securely fixed.

Illustrative pictures on the next page...



6. Close the Drainage



7. Remove the connector



8. Attach the cap



9.



10.

5.5 Cleaning and Replacing the Filter

Filtration is one of the most important steps you can take to ensure clean, clear water. It is far less expensive to fix water clarity problems by filtering your spa than by using excessive amounts of chemicals, excessive filtration times, or by water replacement.

Set the spa in SERENITY MODE before you remove the filter. SERENITY MODE pauses all spa operations for service functions like cleaning or replacing the filter.

1. Remove the filter by unscrewing it and pulling it up and out.
2. Place the dirty filter into a bucket of water deep enough to cover the filter. Add 8 oz. of liquid filter cleaner to the bucket of water.

Note: It is a good idea to keep a spare filter to use in the spa while the dirty filter is being deep cleaned. This way, you can rotate the filters and both will last longer.

3. Soak the filter for a minimum of 24 hours.
4. Spray the filter with a water hose. Spray each pleat carefully.
5. Reinstall the filter. Do not overtighten.

Cleaning and Maintenance

5.6 Spa Cover and Locking System Installation

Important! Keep the spa covered when not in use!

- Covered spas will use less electricity in maintaining your set temperature.
- Covering your spa will protect your spa's finish from the sun's ultraviolet rays.
- You are required to keep the spa covered to maintain warranty coverage.
- Covering your spa helps prevent children from drowning in the spa.

In addition, while the spa cover is rigid, it is not designed to support any weight.

Therefore, as a safety precaution and to preserve the life of your cover, you must not sit, stand, or lie on it, nor should you place objects of any kind on top of it.

1.



Place cover on spa. Make sure it is correctly positioned.

2.



Position the tie-down hardware (attached to the straps of your cover) on the side of the spa so they are easily reached by the cover tie-down straps.

3.



With the straps pulled taut (but not overly tight), lightly drill the location for screw placement. Gently drill 3 holesone for each screw slot in the lock. (If you do not have a low torque drill, use the lowest torque setting on the drill you have.)

DO NOT drill all the way in but instead just make a guide for starters.

4.



Use a screwdriver to finish screwing in the 3 screws. (Repeat this process for the other 3 corners.)

5.



Keep the cover fastened down at all times when not in use. Locking hardware may be locked with a key (which is provided).

6.



The provided key will allow you to lock down spa access.



WARNING: Avoid drowning risk. Failure to follow instructions may result in injury or drowning. Non-secured or improperly secured covers are a hazard. Remove cover completely before entry of bathers. Entrapment possible. Keep cover on spa and locked when not in use!

Cleaning and Maintenance

5.7 Vacation Care

You can leave your spa unattended for up to two weeks if you follow these instructions. *ALWAYS lock your cover using the cover locks if you plan to be away from home and the spa is filled with water.*

1. Select the Low Range temp choice used for vacation mode.
2. Following the water quality instructions (*see pages starting from 43*), adjust the pH.
3. Shock the water (add either chlorine or bromine sanitizer).
4. When you return, check and adjust the pH and shock the water.

If you will not be using your spa for longer than 14 days and a spa maintenance service is not available, we strongly recommend you drain or winterize your spa.

5.8 Cleaning Your Spa

Spa Cover and Pillows

Due to the constant punishment your spa cover and pillows receive, you should protect them by applying a vinyl and leather cleaner as part of your monthly maintenance plan. Use a product that is specifically designed to protect spa covers and pillows from chemical and ultraviolet light damage without leaving an oily residue behind that is normally associated with common automotive vinyl protectants.

Warning: Do not use automotive vinyl protectants on spa covers or pillows. These products are generally oil-based and will cause severe water clarity issues that are difficult to correct.

Spa Shell

Each time you drain your spa, before you refill it you should clean your spa shell with an all-purpose cleaner and apply a coat of surface protectant.

Use a low detergent, non-abrasive cleaner specifically formulated to clean the spa without damaging its acrylic finish. Use a non-oil based surface protectant that is specifically formulated to protect the spa's finish from the chemicals and minerals associated with normal spa use.

6 Sound System

Using the Bluetooth Sound System

The sound system is ready to pair when it is not already connected to another device. To pair your device, first make sure you are close enough to the system, and that it is turned on.

1. Open the Bluetooth settings on your device. The location of the settings will depend on the device you are using.
2. In these settings, turn Bluetooth on, if it is not already.
3. Choose **JOYONWAY / H20** from the list of available devices.
4. When prompted, enter **2288 / (no password)** as the password. Your device should now be paired with the system, and ready to use.

Once the pairing is done and connection has been established between the devices, the system will be ready to start playing the selected audio. If the device moves out of range and loses connection it should reconnect automatically as soon as it is close enough. This should happen without going through the menu again.

Brand	Bluetooth name	Password
JOYONWAY	joyonway	2288
JOYONWAY	H20	no password

7 Water Clarity

This section is intended for new spa owners with no experience with water chemistry. Everyone's experience with maintaining water quality is different, but there are some general concepts you need to know.

Water maintenance is not difficult, although it requires regular attention. The most important thing to understand about taking care of your spa water is that preventive action is much easier than correcting water quality issues. Before you begin, we recommend you become familiar with some water quality terms and their definitions.

Water Clarity / Covers

Whether you're filling your spa for the first time or refilling it after draining it for regular maintenance, start and maintain your spa water by following the plan we describe in this section.

Chemical Balance

You will need to test and adjust the chemical balance of your spa water. Although this is not difficult, it needs to be done regularly. You need to test the level of calcium hardness, total alkalinity, and pH. Spa owners with a bromine generator also need to check.



Sanitation and Shock

Sanitizers kill bacteria and viruses and keep the water clean. A low sanitizer level will allow microbes to grow quickly in the spa water. We recommend using either chlorine or bromine as your sanitizer. You also need to add shock to the water to stimulate the chemical sanitizer. How much you use and how often depend on frequency and intensity of use.



Filtration

Cleaning your filter regularly is the easiest and most effective single thing you can do to keep your water clear. A clogged or dirty filter will cause the heater and pump to work harder than they need to, possibly causing them to fail. The spa's heating system will only function with the proper amount of water flow through the system.



Regularity

Clear water requires regular maintenance. Establish a routine based on a regular schedule for your spa water maintenance.



Maintaining your water quality helps the enjoyment of your spa and extends your spa's life by preventing damage from neglect and chemical abuse.

8 Covers

All spa covers are designed with a tapered height, angling downward from the center to the sides to drive off rain and prevent water from pooling. The covers listed below are filled with either 0.6 kg or 0.9 kg foam.

Standard

3.5"–2.5" / 88 mm–64 mm

1.5 Lb. / 0.7 kg foam



Deluxe

5"–4" / 125 mm–100 mm

2.0 Lb. / 0.9 kg foam



9 Troubleshooting

9.1 Basic Troubleshooting

The troubleshooting guidance provided here is intended to cover the most common problems a spa owner may encounter.

Symptom	Possible Solutions
Problems starting up	
Pump won't prime	See priming instructions on page 17.
Breaker keeps shutting off	Reset the GFCI breaker. If this continues, contact your dealer or a qualified spa technician.
Power and system problems	
System won't start up or breaker keeps shutting off	Power may be shut off. Turn on GFCI circuit breaker. If this continues, contact your dealer or a qualified spa technician.
Control panel doesn't respond	Turn on or reset the GFCI circuit breaker. If this does not solve the problem, contact your dealer or a qualified spa technician. If you hear the pump running but the control panel doesn't respond, contact your dealer.

Troubleshooting

Symptom	Possible Solutions
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Power and system problems	
Spa does not turn off	<ul style="list-style-type: none">– Spa may be trying to heat up. Check if spa is in Ready or Rest mode.– In cold climates, if spa is not equipped with full foam or any kind of insulation, it will try to maintain the set temperature. Set the spa to low temperature range and set the temperature to 27 °C (80 °F).– Spa may be in filter cycle. If it is, this is normal and no adjustment is necessary.
Message on the control panel	There may be a problem. Please see the table in the chapter 9.2 Panel warning information.

Heat problems	
Spa water does not get hot	<ul style="list-style-type: none">– Spa may be in low temperature range. Set the spa to high temperature range.– The filter may be dirty or may need to be replaced. Clean or replace the filter.– The water level may be too low. Fill the spa with water level at 4 to 6 inches from the top.– The temperature is not turned up high enough. Raise temperature on topside control.– Cover the spa. The cover will keep heat in the spa and help keep heat from escaping. Make sure cover is on at all times when spa is not in use.– The heater element may be old, deteriorated, coated with scale, or defective. Contact your dealer for more assistance.– The gate valves may be partially or completely closed. NEVER OPERATE YOUR SPA WITH THE GATE VALVES CLOSED!
Spa overheats temperature greater than 110 °F / 43 °C	<ul style="list-style-type: none">– Overheating can occur during summer months and may not necessarily indicate a malfunction. When it occurs, a message code may also appear on the control panel.– Temperature may be set too high. Turn the set temperature down to a lower temperature.– Filtration time may be too long. Turn the filtration cycles down during the warm months.– The spa may not be properly ventilated. Make sure the front of the spa is not blocked to allow air flow.– High speed pumps may have been running too long. Limit pump running time to no more than 15 to 30 minutes.

Symptom	Possible Solutions
Water pressure problems	
Low water pressure	<ul style="list-style-type: none"> – Jet valves may be partially or fully closed. Open the jet valves. – Filter cartridge may be dirty. Clean or replace the filter. – Pump may have airlock. Remove airlock by priming spa. (<i>see page 17</i>) – The suction fittings may be blocked. Remove any debris that may be blocking them. – The filter skimmer may be blocked. Remove the blockage. – Gate valves may be closed. Open gate valves. <i>Note: Never operate your spa with the gate valves closed!</i> – Spa may be running in filtration mode. Press <i>JETS</i> or <i>JETS 1</i> button to turn on high speed pump.
No water pressure (no water stream from any jets)	<ul style="list-style-type: none"> – Power may be switched off. Turn the power back on. – The pump may be defective. After you have tried all other troubleshooting, contact your dealer for assistance.
Jets surge on and off	Water level may be too low. Add water to normal level.

Pump problems	
Pump runs constantly, will not shut off	There may be a problem with circuit board. Contact your dealer.
Noisy pump	<ul style="list-style-type: none"> – The water level may be too low. Fill the spa with water level at 4 to 6 inches from the top. – Filter cartridge may be dirty. Clean or replace the filter. – Pump may have airlock. Remove airlock by priming spa. (<i>see page 17</i>) – The suction fittings may be blocked. Remove any debris that may be blocking the suction fittings. – Gate valves may be closed. Open gate valves. <i>Note: Never operate your spa with the gate valves closed!</i> – Air may be leaking into the suction line. Contact your dealer for assistance. – Debris may be inside the pump. Contact your dealer for assistance. – Noise may be a sign of damage. Contact your dealer for service.

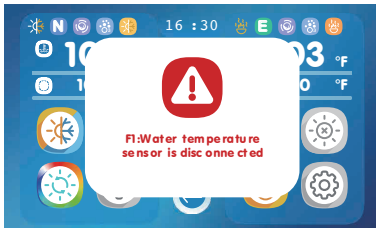
Troubleshooting

Symptom	Possible Solutions
Pump problems	
Pump turns off during operation	<ul style="list-style-type: none">– Automatic timer may have completed its cycle. Press <i>JETS</i> or <i>JETS 1</i> button to start the cycle again.– Pump may have overheated due to the vents on the equipment door being blocked. Make sure the front of the spa is not blocked to allow air flow.– The pump motor may be defective. Contact your dealer for assistance.
Pump has a burning smell while running	A burning smell may be a sign of damage. Contact your dealer for service.
Pump does not run	<ul style="list-style-type: none">– Pump may have over heated. Let it cool for an hour and try operating the spa for a shorter time.– Power to the spa may be shut off. Turn on or reset the GFCI circuit breaker. If this does not solve the problem, contact your dealer or a qualified spa technician.

9.2 Panel warning information

When there are some states that require user attention in the control system, the control panel will display warning information of the state on the control panel. If there are several types of information that need to be displayed at the same time, these information will be loop displayed.

The following image shows the screen state when these details are displayed:



Warning message display location

When the following fault message appears, first try to power off the SPA and then power on again a few minutes later to clear the fault; If the fault occurs again, please follow the instructions below to handle the fault; During the troubleshooting process, ensure that the power connection to the SPA is disconnected.

code	description	cause	solution
F1	Water temperature sensor is disconnected. The control system has detected that the temperature sensor is not connected.	–	Please check the temperature sensor and its connections, and replace it if necessary.
F2	Water temperature sensor is short circuit. The control system has detected a short circuit in the temperature sensor.	–	Check the temperature sensor and its connections, and replace it if necessary.
F3	Water temperature is too high. The control system has detected that the temperature of temperature sensor is too high.	When the heater is started, if there is no water or water flow is small in the heating tube, this message may appear.	Please ensure that there is sufficient water in the SPA and the heating circulation pipeline is unobstructed.
F4	Water temperature is too low. The control system has detected that the temperature of the temperature sensor is too low.	–	Please pay attention to frost protection.
F5	EEPROM error. Memory Fault.	–	When a memory fault occurs, please power off the SPA and power it back on after a few minutes. If the memory fault occurs again, contact the service provider or manufacturer.

Troubleshooting

code	description	cause	solution
F6	Overheat protection switch (manual reset) on.	–	If the overheat protection switch is turned on, there may be overheating in the heating tube. Please manually reset the overheat protection switch or contact the service provider and manufacturer.
F9	System setting error.	The system configuration item read from the motherboard memory by the control system after power on was verified not correct.	Please turn off the power and wait for 10 seconds before powering on again. If this message appears again, please contact the service provider or manufacturer.
F10	Communications error.	The control panel cannot exchange information with the control pack.	Please turn off the power, and check if the wiring connection between the control panel and the control pack is good and if the connectors are tightly connected. After confirmation, power on again. If this fault cannot be eliminated, please contact the service provider or manufacturer.
ER06	Heat Pump Low Pressure Failure.	–	–
ER09	Heat Pump Communication with the upper computer failed (Communication with control system failed).	–	<ul style="list-style-type: none"> – Replace the main board. – Check the communication cables between the main board and control system. – Check whether the control system software matches.

code	description	cause	solution
ER10	Heat Pump Communication fault of frequency conversion module (alarm when communication is disconnected between external board and drive board).	<ul style="list-style-type: none"> – The mainboard or driver board damaged. – The connector of the communication cable between the mainboard and the driver board is in poor contact or falls off. – The communication cable is damaged. 	<ul style="list-style-type: none"> – Replace the main board or driver board. – Check the communication cables between the main board and driver board. – Replace the communication cable.
ER12	Heat Pump Exhaust too high protection.	<ul style="list-style-type: none"> – Less refrigerant or leakage. – The system blocked. – Compressor refrigerant oil is insufficient. – The resistance value of the exhaust probe is offset, and the inlet temperature probe is dropped. 	<ul style="list-style-type: none"> – Refill the refrigerant. – Replace the filter. – Add refrigerant oil to the compressor. – Replace the exhaust probe and reconnect the water inlet temperature probe.
ER15	Heat Pump Inlet water temp. Error.	The sensor plug is in poor contact or off, or the sensor is damaged.	Check and replace the water inlet temperature sensor (T2 sensor).
ER16	Heat Pump Outer coil pipe temp. Error.	The sensor plug is in poor contact or off, or the sensor is damaged.	Check and replace the coil pipe temperature (T3 sensor).
ER18	Heat Pump Exhaust gas temp. Error.	The sensor plug is in poor contact or off, or the sensor is damaged.	Check and replace the exhaust gas temperature (T1 sensor).
ER19	Heat Pump DC Fan Motor Failure.	–	–

Troubleshooting

code	description	cause	solution
ER20	Heat Pump Abnormal protection of frequency conversion module.	IPM module internal fault.	Check related problems according to the attached table.
ER21	Heat Pump Ambient temp. Error.	The sensor plug is in poor contact or off, or the sensor is damaged.	Check and replace the ambient temperature (T4 sensor).
ER23	Heat Pump Cooling outlet water temperature low protection.	–	–
ER27	Heat Pump Outlet temperature fault.	The sensor plug is in poor contact or off, or the sensor is damaged.	Check and replace the water outlet temperature (T6 sensor).
ER29	Heat Pump Return gas temp. Error.	The sensor plug is in poor contact or off, or the sensor is damaged.	Check and replace the suction gas (T5 sensor).
ER32	Heat Pump Heating outlet water high temperature protection.	–	–
ER33	Heat Pump Outer Door Coil High Temperature Protection.	–	–
ER35	Heat Pump Compressor Current Protection.	–	–

code	description	cause	solution
ER42	Heat Pump Internal Coil Temperature Fail.	–	–
ER44	Heat Pump Ambient Temperature Too Low Protection.	–	–
ER46	Heat Pump DC Fan Error.	1. Dc fan failure. 2. Plug is in poor contact or off.	1. Replace the DC fan. 2. Reconnect cables to the DC fan.

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Safety Regular
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