

COLD PLUNGE TUB USER MANUAL

/ COOL&HEAT PUMP / CONTROL BOX / CONTROL PANELS /

WARNING

REDUCE THE RISK OF ELECTRIC SHOCK

— Never place any electrical appliance within 1.5 meters of the plunge tub. Electrical devices falling into water may cause death, electric shock, or serious injury.
— All wiring and electrical work must be carried out by a qualified electrician.
— Use only a grounded electrical outlet.

REDUCE THE RISK OF CHILD DROWNING

— Pay special attention to children during use. To prevent accidents, children may only use the spa under adult supervision.
— After each use, replace the plunge tub cover and secure it.

REDUCE THE RISK OF OVERHEATING AND HYPOTHERMIA

— Users who are pregnant, have heart problems, low or high blood pressure, circulatory disorders, diabetes, or are overweight should consult their physician before using the product.
— Exit immediately if you feel uncomfortable, dizzy, or sleepy. The low temperature of the plunge tub may cause hypothermia, while high temperature may cause heat stroke (hyperthermia) and loss of consciousness.
— The temperature of the plunge tub combined with alcohol, drugs, or medication may cause loss of consciousness and greatly increases the chance of fatal overheating.
— Measure the water temperature before entering.
— During pregnancy, prolonged soaking in hot water may harm the fetus.

TABLE OF CONTENTS

Introduction … 3
Safety instructions … 4
MICROSILK® Oxygen Therapy™ … 8
Initial installation … 9
Control devices
- Heat exchanger control panel … 12
- Heat exchanger mobile phone application … 21
- Single-button LED control … 32
- Smart Touch control panel … 33

Optional accessories
- in.touch 2 Wifi Connection … 43

Wiring diagram … 69
Basics of water treatment … 73
Maintenance … 74
Frequently Asked Questions … 75
Information for Commercial Use … 76

CONGRATULATIONS ON YOUR NEW PRODUCT!

Beyond work and family, moments of calm and a high quality of life play an essential role in modern well-being. Whether enjoyed alone or with others, an evening in your spa offers the opportunity to slow down, unwind, and restore both body and mind.

Step away from the demands of everyday life and immerse yourself in a sensory experience where the soothing embrace of water creates ideal conditions for relaxation.

Our design engineers have combined insights from traditional Eastern massage practices with modern Western hydrotherapy to create spas that deliver an exceptional and balanced massage experience.

Create a peaceful, restorative space in your home and join those who prioritize well-being and harmony in their surroundings.

Immerse yourself and enjoy the gentle flow of water.

THIS MANUAL PROVIDES USER INSTRUCTIONS FOR THE FOLLOWING PRODUCTS:

ICELAND Cold plunge tub
ICELAND DUO Cold plunge and Hot tub

Aeware®, Gecko®, and their respective logos are Registered Trademarks of Gecko Alliance Group. in.yt™, in.ye™, in.yj™, in.touch™, in.stream 2™ , DJS ™, in.k110™, in.k120™, in.k361™, in.k1001™, in.clear™, and their respective logos are Trademarks of Gecko Alliance Group.

All other product or company names that may be mentioned in this publication are tradenames, trademarks or registered trademarks of their respective owners.

FOR YOUR SAFETY REASONS ALWAYS FOLLOW THE INSTRUCTIONS BELOW

IF YOU FAIL TO OBSERVE THE WARNINGS AND INSTRUCTIONS, THE EQUIPMENT MAY BE DAMAGED, AND YOU MAY BE INJURED OR EVEN LOSE YOUR LIFE. IMPROPER INSTALLATION OR OPERATION WILL VOID THE WARRANTY.

INITIAL SAFETY WARNINGS

The power supply of the cold plunge tub must be provided through a residual current device (RCD) with a tripping current not exceeding 30mA.

Devices and components containing live parts – except those supplied with protective extra-low voltage not exceeding 12V – must be inaccessible from the tub.

ABOUT ENVIRONMENTALLY RESPONSIBLE WATER DRAINING

The water temperature of the cold plunge tub must never exceed 40°C.

A temperature between 36 and 38°C can be considered safe for a healthy adult. Lower water temperature is recommended for young children and in cases where the cold plunge tub is intended to be used for longer than 10 minutes.

Children under 14 years of age may only use and operate products equipped with a hydromassage system under adult supervision.

For children and for users staying in the tub longer than 10 minutes, a temperature below 40°C is recommended.

Users taking medication should consult their physician before using the tub. Certain medications may cause drowsiness, while others may affect heart rate, blood pressure, or circulation.

Persons suffering from infectious diseases should not use the cold plunge tub.

Those with infections, open wounds, or similar conditions should not use the cold plunge tub. Warm or hot water may promote the growth of infectious bacteria if not properly disinfected.

As high water temperature may pose serious risk to the fetus and may even cause permanent health damage, we recommend that pregnant women, even if pregnancy is only possible, do not use the tub at water temperatures above 38°C.

Wet surfaces may be slippery. Inform and warn children about this before using the tub. To avoid injury, enter and exit the tub carefully.

Do not use the cold plunge tub if the water suction cover is damaged or missing.

Removing the panels while the tub is in use is strictly prohibited.

Water treatment must be performed with caution. Improperly treated water may cause skin irritation. Chemical treatment of the water may only be performed by persons under 18 years of age under parental supervision.

When the cold plunge tub is not in use, cover it with the provided lid to prevent damage from ultraviolet radiation, contamination, and accidents.

Do not allow children to climb onto the cover placed on a water-filled tub.

Do not remove any sealing of the water suction. Do not use the tub if the suction sealing is damaged or missing.

Keep clothing and jewelry away from rotating jets and moving parts.

Before immersing in cold water with an overheated body, wet your skin over as large an area as possible to cool your body, and immerse gradually. Always follow the principle of gradual adaptation.

Keep pets away from the ICELAND and ICELAND DUO models to avoid potential damage and accidents.



WARNING! Metal parts of the cold plunge tub may heat up due to sunlight exposure and may cause injury.

Always keep electrical connectors dry and away from water.

Never touch electrical equipment with wet hands.

Before performing any maintenance on electrical components, disconnect the cold plunge tub from the power supply.

Maintenance may only be carried out by qualified professionals. Removing the housing or other components may involve risk of electric shock.

It is strictly prohibited to use the cold plunge tub in an incompletely assembled state, for example without installed side panels.

Do not operate the cold plunge tub if any defect is detected on the product.

Do not use the cold plunge tub during thunderstorms.

The user must check the electrical wiring at least every 3 months. A professional inspection must also be carried out every 3 years.

Main fuses or circuit breakers may be activated as a result of power outages.

Installation and wiring of the tub, replacement of the power cord, and any repairs may only be carried out by qualified professionals.

An isolating device must be installed in the fixed wiring.

Ensure that all electrical equipment is properly grounded.

Keep cables and connectors away from hot surfaces.

PLUG'N'PLAY SAFETY WARNINGS

In addition to the warnings above, please also observe the following.ATTENTION!

The electrical outlet must be located at least 2.5 meters from the tub so that bathers cannot reach it from a seated position in the water.

The plug may only be connected to a socket equipped with 2 × 2.5 mm diameter cables.

ATTENTION! RISK OF ELECTRIC SHOCK

The RCD-equipped connector must be tested before each use.

ATTENTION!

Only connect the RCD plug to a socket equipped with an RCD.

ATTENTION!

Before inserting the plug, make sure that the socket and fixed

SAFETY INSTRUCTIONS

wiring meet the electrical requirements of the tub.

The tub must be equipped with an isolating transformer or powered through an RCD with a tripping current not exceeding 30mA.

The product connector is fitted with a ground fault circuit interrupter (GFCI). The GFCI must be tested before each use.

IF THE POWER CORD IS DAMAGED, IT MUST BE REPLACED IMMEDIATELY BY THE MANUFACTURER OR AN AUTHORIZED SERVICE PROFESSIONAL IN ORDER TO MINIMIZE DANGER.

To minimize the risk of electric shock, do not use an extension cord to connect the product to the power supply.

Ensure that the socket is properly positioned.

Do not place equipment components above the tub during use.

Live electrical parts, except those operating at below 12V, must not be accessible to persons using the cold plunge tub. Grounded equipment must be connected to a fixed socket with fixed wiring. Electrical components, except remote controls, must be positioned so that they cannot fall into the tub.

The electrical installation must comply with local regulations.

To avoid electric shock, do not use the tub in rain.

Do not bury cables underground. Route cables so that lawnmowers, trimmers, and similar equipment cannot reach them.

Do not force the control panel up or down and do not place heavy objects on it after installation.

To prevent damage, keep pets away from the tub.

Do not use the unit if there is any chance that the water in the tub is frozen.

Use only accessories approved by us. Use of non-approved accessories may void the warranty.

Never use electrical devices in the tub or with a wet body.

Do not place electrical equipment (lamp, radio, television) within 1.5 meters of the tub.

Do not expose the cold plunge tub to direct sunlight.

CONNECT THE TUB ONLY TO A GROUNDED ELECTRICAL OUTLET.

Risk of electric shock. Install the unit at least 1.5m (5 feet) from any metal surfaces. Installation within 1.5m of metal surfaces is permitted only if all metal surfaces are permanently bonded to a copper conductor of at least 6mm diameter, connected to a dedicated junction box terminal.

To avoid injury, never pour water hotter than 40°C directly into the tub.

Effects of overheating may include: inability to recognize emergency situations, inability to feel temperature, not feeling the need to exit the tub, inability to exit the tub, loss of consciousness or drowning, and in the case of pregnant women, fetal damage.

Do not use the cold plunge tub alone.

Do not use the cold plunge tub immediately after strenuous physical exercise.

To avoid damage to the pump, operate the tub only when it is filled with water.

If you feel uncomfortable or sleepy, leave the tub immediately.

Never add water to chemicals. When adding chemicals to the tub water, always take care not to inhale vapors and avoid contact with undiluted chemicals and splashes.

Place the tub only on a surface capable of supporting its weight.

INSPECT THE UNIT BEFORE USE. CONTACT THE SERVICE PROVIDER DESIGNATED IN THIS MANUAL IF ANY PART OF THE PRODUCT WAS MISSING OR DAMAGED UPON PURCHASE. ENSURE THAT THE COMPONENTS OF THE UNIT ARE THOSE YOU INTENDED TO PURCHASE.

WARNINGS

- Excessive Chemical Use: Overuse of chemicals may pose health risks to bathers and may damage the equipment of the ICELAND and ICELAND DUO units.
- Prolonged Use of the Cold Plunge Tub: Extended use of the cold water tub may cause hypothermia.

5

COLD PLUNGE TUB USER GUIDE

The use of a cold plunge tub offers numerous health benefits, such as reducing inflammation, improving blood circulation, and accelerating muscle recovery. Below you will find a detailed guide for the safe and effective use of the cold plunge tub.

PREPARATIONS

1. Filling with Water and Setting the Temperature

- Fill the tub with cold water up to the level recommended by the water level indicator located on the side of the tub.
- Set the desired temperature using the temperature controller. The recommended temperature for cold immersion is 10–15°C. For warm water use with the ICELAND DUO, the recommended temperature is 36–38°C.

2. Safety Check

- Make sure that all electrical connections are properly grounded.
- Check that all safety devices are functioning and that there are no leaks or mechanical faults in the tub.

USE

1. Entering the Tub

- Step into the tub slowly and carefully to avoid the risk of slipping. Wear non-slip footwear or use an anti-slip mat inside the tub.
- Sit down or stand comfortably, and gradually immerse yourself in the water.

2. Duration of Immersion

- For first-time users, it is recommended to limit immersion time to one minute and to begin with less cold water. Afterward, the duration can be gradually increased and the water temperature gradually lowered. Experienced users may remain in the water for up to 10 minutes.
- Pay attention to your body's reactions. If you experience any discomfort, dizziness, or chills, leave the tub immediately.

AFTERCARE

1. Exiting the Tub

- Stand up slowly and carefully to avoid dizziness or slipping.
- Dry yourself with a towel and put on warm clothing to keep your body warm.

2. Recovery

- Rest for a few minutes in a warm place to allow your body to return to its normal temperature.
- Hydrate properly and, if necessary, perform light stretching exercises.

MAINTENANCE

1. Water Replacement and Cleaning

- Replace the water regularly, especially if the tub is used by multiple people. Use appropriate chemicals to keep the water clean.
- Keep the tub clean to prevent the growth of bacteria.

HYPOTHERMIA INFORMATION

The average temperature of human body is around 36–37°C. Hypothermia, or excessive cooling of the body, occurs when body temperature drops below 35°C for a prolonged period. A body temperature of 32°C or lower can already be life-threatening. Hypothermia always requires immediate medical attention. If you notice symptoms of hypothermia in yourself or others, call the emergency number 112 immediately and request medical assistance.

SYMPTOMS OF HYPOTHERMIA

- Shivering
- Slurred or confused speech
- Slow, weak breathing
- Weak pulse
- Clumsiness
- Drowsiness
- Confusion
- Loss of consciousness
- Bright red, cold skin (in infants)

EFFECTS OF HYPOTHERMIA:

- Impaired nervous system function
- Respiratory and heart problems
- The user may not recognize the need to leave the ICELAND cold tub
- Inability to recognize danger
- Risk of fetal damage in pregnant women
- Physical inability to exit the ICELAND
- Loss of consciousness, which poses a risk of drowning

HYPERTHERMIA INFORMATION

Overheating of the body is called hyperthermia. The water temperature of the tub must never exceed 40°C (104°F). A temperature between 36–38°C is considered safe for a healthy adult.

SYMPTOMS OF HYPERTHERMIA:

- Drowsiness, lethargy
- Weakness
- Rapid heartbeat
- Nausea, vomiting
- Rapid, shallow breathing
- Dizziness, fainting

If you feel unwell, seek assistance, rest in a cool room, and begin cooling your body slowly and gradually using wet compresses and small but frequent sips of water. Hyperthermia can lead to life-threatening conditions, therefore if cooling the body is not effective, seek medical help immediately.

MICROSILK® OXYGEN THERAPY™



MICROSILK

MicroSilk® OXYGEN THERAPY™ increases the oxygen level of the water by more than 70%. Thanks to their tiny size, the microbubbles are able to penetrate deep into the pores, removing impurities while delivering oxygen to support better skin metabolism. They enhance the hydration of dry skin, promote the growth of skin cells, and help reduce wrinkles, crow's feet, scars, and skin imperfections.

Note:

MicroSilk® Oxygen Therapy™ is available exclusively in the Iceland Duo Cold Plunge Tub, and only in the hot tub zone. The function can be operated via the Smart Touch control panel. See page X for detailed instructions.

SITE PREPARATION

When choosing a site for the spa take into account that its maintenance and repair works must be carried out behind the sidewalls, so accessibility and space to walk around the spa must be ensured.

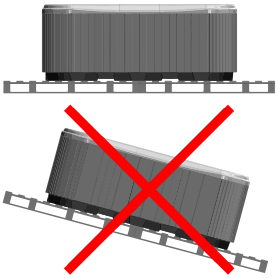
1. INDOOR/BASEMENT INSTALLATION

If you place your spa indoors, be aware of some special requirements:

Water may accumulate around the spa, so the flooring material must have a proper runoff to avoid accumulation of water. When building a new room for the spa, constructing a floor drain is required, or damages may occur due to overflow, overfilling, or technical failure. Our company does not take responsibility for any damage in absence of floor drainage. Humidity will naturally increase in the room where the spa is located and the evaporated water condenses. For this reason ensure that the area has proper ventilation. We recommend installing a dehumidifier in the room.

2. OUTDOOR AND PATIO INSTALLATION

A solid horizontal foundation is necessary for installation of the spa. We advise using a reinforced concrete foundation at least 10-15cm thick.



Ensure that your deck or foundation will support your spa. You must know the maximal load capacity of the foundation. Consult a qualified building contractor or structural engineer.

To find out the weight of your spa, its contents and occupants please refer to the spa specification chart. This weight must not exceed the structure's rated capacity per square meter, otherwise serious structural damages could result. If you install the spa outdoors, we recommend a reinforced horizontal concrete pad at least 10-15cm thick.

Install floor drains around your spa to lead water away even in heavy rain.

When constructing the water drain it is advised to form a 10-15cm deep sloping ditch around the spa which directs water to the drain. Water from the drain must be directed to the canal or a drainage with enough capacity.

Warning: *Do not expose the spa to direct sunlight, even when empty without proper coverage. The insulated spa cover preserves the water temperature and provides protection from sunlight and rain. When exposed to sunshine for a longer period it may damage the surface of the spa and the spa equipment.*

Acrylic rapidly absorbs heat from sunlight, thus reaches a very high surface temperature which may damage the spa.

In case of sealed design, if the spa was placed between glass structures, prevent the sunlight from reaching the spa directly through the glass as the temperature may get too high.

3. IN-GROUND / SUNKEN SPA

In case of sinking the spa into the ground you must make sufficient space for walking around the spa. For completion of maintenance works a minimum of 60cm wide inspection pit must be built around the spa.

The inspection pit's bottom must be under the bearing point of the spa so that water can flow into the pit in case of water leakage. A floor drain or sump pump should be used at the bottom of the pit to ensure continual water drainage.

In case of sinking the spa only the portion below the spa's acrylic edge can be sunk. The air of the inspection pit steams up. To prevent unpleasant odors proper ventilation must be provided (e.g. installing ventilators). The costs of pulling the spa out of the ground are borne by the user. If the aforementioned conditions are not present, setting up the spa may fail.

First filling of the spa

Proper filling of the spa is an important task both technically and chemically. We advise installation and periodic maintenance by the servicing professionals, which includes inspection and refilling of spa water. Spas do not contain water softener and hard water damages the equipment. Improper filling of the spa may bring air into the system, which damages the heating wire and engines. Pure stream WE00067 (water softener) and Pure fill WE00068 (carbon filter) are ensured for your spa. Please fill your spa exclusively through this filters. Repairs after such failures are not covered by warranty.

Filling process

Remove the spa cover. First remove the cover staves, then remove the side covers by unscrewing the bottom screws. During transportation the flare fittings of engines may dislocate. Check these connections before installation. If necessary, tighten the flare fittings.

In spas equipped with air engine the flare fitting must be connected before running the spa for the first time.

Before filling the spa check that the ratchets are not in a closed state (lever is pulled out and fixed with the safety lock).

Next fill the spa with water to the sign indicated on its sidewall.

Filling must be done through the filter housing. Improper filling can damage the engines and heating element.

Insert the filter or filter cartridges when proper water level is reached. Be cautious, because when replacing the filter cartridge air bubbles may remain in the cartridge. To avoid this the filter cartridges must be tilted in the water to remove air from them, and only then fitted to their place.



IONIC EXCHANGE WATER SOFTENER AND CARBON FILTER

For the optimal quality the following steps shall be followed during the usage:

1.

Please check the required water volume in the manual of the spa or contact our customer service for help. The exact volume is needed for the precise filling.

2.

Please remove the covering caps from both ends to connect the filling hose.



3.

Please connect the carbon filter to the water hose via the screw thread gadget (included with the filter).



4.

Please run water through the filter into a separate vessel until it becomes perfectly clear. This step allows the filter to rinse from the remaining carbon powder. The rinse cycle lasts for 30 seconds at most with approx 10 litres of water.



0'-30'



>30'

5.

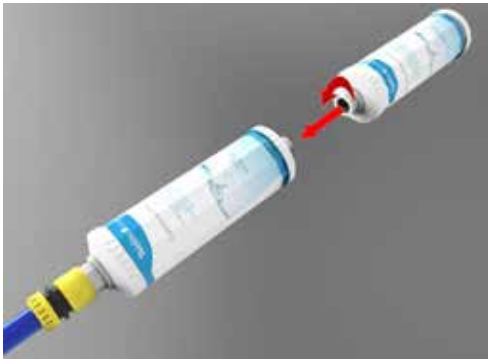
Through the clean filter fill up the spa with one third (1/3) of the total volume (e.g.: with 1000 litres of total volume 1/3 is 300 litres). It is important to follow the instructions of the filling for it is crucial to set the precise water hardness.



Insert the filter or filter cartridges when proper water level is reached. Be cautious, because when replacing the filter cartridge air bubbles may remain in the cartridge. To avoid this the filter cartridges must be tilted in the water to remove air from them, and only then fitted to their place.

6.

After the filling please remove the caps from the water softener cartridge too and connect it with the carbon filter. With water softener the rinsing is significantly faster, so only this first 1 liter needs to be drained separately!



7.

Please check the water hardness during the filling with the softener. There are multiple choice of using a hardness tester. Testers sold by Wellis are showing the hardness level on a colour scale.

If the value shown is less than the optimal value the water will create foam during the usage, if the value is more that will cause limescaling.



8.

If the water hardness is extremely low during the filling please remove the softener cartridge and continue the filling with only the carbon filter as it shown at point 5.

CONTROL DEVICES

ICELAND
COLD PLUNGE TUB





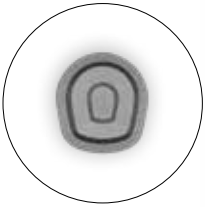
SINGLE-BUTTON AUXILIARY CONTROL
Controls the underwater color therapy LED light.

SMART TOUCH CONTROL PANEL
In case of spa equipped with MicroSilk® OXYGEN THERAPY™





HEAT EXCHANGER CONTROL PANEL
Controls the built-in heat exchanger unit.



AIR CONTROL
The air control supplies more air to the jets, thereby intensifying the massage.
Turn to the right to open, turn to the left to close.



ICELAND DUO
DUAL ZONE SPA
COLD PLUNGE & HOT TUB IN ONE

HEAT EXCHANGER CONTROL PANEL



No.	Item	Icon	No.	Item	Icon
1	Function or mode key		9	Wi-Fi	
2	Timer key		10	Defrosting	
3	"+" key		11	Alarm	
4	"-" key		12	Lock	
5	On/Off key		13	Timer on/off	
6	Heating mode		14	Real-time clock	
7	Auto mode		15	Sterilizer (This function is only available on chillers equipped with a sterilizer.)	
8	Cooling mode		16	Fan motor	

BUTTON OPERATION INSTRUCTIONS

No.	Item	Operation
1	On/Off	• On the main interface, press the button to switch the unit on or off • When the unit is turned off, OFF will appear on the display.
2	Lock / Unlock	• If no operation is performed for 60 seconds, the wired controller will enter standby mode, the screen will automatically lock, and the icon will light up. • When the device is locked, press and hold the button for 3 seconds. • The buzzer will beep, the lock will be released, and the icon will turn off.
3	Mode Switching Function	Press the button to switch between heating, cooling, and automatic modes.
4	Query and Setting of User Parameters	• From the main interface, press and hold the button for 3 seconds to enter the parameter query menu. • Use the or buttons to browse user parameters. • In the parameter query menu, select a parameter and press the button to enter setting mode. • The parameter value will start flashing. • Use the or buttons to adjust the value, then press again to confirm and return to the parameter list. • (Note: Parameters do not flash in query mode; flashing only occurs in setting mode.) • If no operation is performed for 30 seconds while in the parameter menu, the modified value will be automatically saved and the system will exit to the previous interface. • Pressing the button will also return to the main interface.
5	Sterilizer Function	**This function is only available on chillers equipped with a sterilizer.** Parameter 9. controls this function: • 0 = Manual • 1 = Auto (Default setting is 0 – Manual mode) • When parameter 9. is set to 0, press and hold the button for 3 seconds to activate the sterilizer function. The icon will appear on the display. • Press and hold the button again for 3 seconds to deactivate the function. • If parameter 9. is set to 1 and the unit is switched on, the sterilizer function operates for 20 minutes, then stops for 20 minutes, and repeats according to this cycle.

No.	Item	Operation
6	Real-Time Clock Setting	• From the main interface, press and hold the button for 5 seconds to enter the real-time clock setting mode. The hour and minute values will begin flashing simultaneously. • In the clock setting mode, press the button once. • The hour value will continue flashing while the minute value stops flashing. • Use the or buttons to set the correct hour. • After setting the hour, press the button again. • The minute value will start flashing while the hour stops flashing. • Use the or buttons to set the correct minutes. • After the minutes have been set, press the button again to confirm the time setting and return to the main interface. • You can also press the button at any time in the clock setting interface to confirm the current setting and return to the main screen. • If no operation is performed for 30 seconds, the current clock setting will be automaticaly-ly saved and the system will return to the main interface.
7	Timer Setting	• From the main interface, press the button to enter the timer group setting menu. • Upon entering the timer setting interface, Timing Group 1 will flash. • The controller supports two independent timing groups. **Setting Group 1 Start Time** • In Group 1, press the button to enter the hour setting for the start time. • The hour digits will begin flashing. • Use the or buttons to set the desired start hour. • Press the button again. The minute digits will begin flashing. • Use the or buttons to set the start minutes. **Setting Group 1 Shutdown Time** • After setting the start minutes, press the button to enter the shutdown time setting for Group 1. • The setting method is the same as for the start time (set hour - confirm - set minutes). • When the shutdown time is set, press the button to confirm the timing period for the current group. • Then press the or buttons to switch to the next timing group and set it using the same procedure as Group 1. **Additional Notes** • If a timing group is valid, its group number will be displayed on the main interface. • If the start time and shutdown time of a group are identical, the timing setting for that group will be considered invalid. • When Timing Period 1 or 2 is flashing, press and hold the button for 3 seconds to activate the current timing setting. The or icon will appear on the display. • To cancel an active timing setting, press and hold the Timer button for 3 seconds again. The or icon will appear. • If no operation is performed in the timer setting interface for 30 seconds, the current settings will be saved and the system will return to the main interface. • Press the button at any time in the timer interface to confirm the current settings and return to the main screen.

HEAT EXCHANGER CONTROL PANEL

No.	Item	Operation
8	Temperature Setting Function	From the main interface, press the  or  buttons to adjust the set temperature.
9	Return to Main Interface	Press the  button to return to the main interface.
10	Reset Operation	When the unit is in the OFF state, press and hold the  and  buttons simultaneously for 5 seconds to restore all user parameters and factory parameters to their default values.
11	Celsius / Fahrenheit Switching	From the main interface, press and hold the  and  buttons together for 3 seconds to switch between Celsius and Fahrenheit units.
12	Manual Defrost	When the unit is operating in heating mode or auto mode, press and hold the  and  buttons for 3 seconds to start manual defrost mode.

PARAMETER LIST

Query Table of Unit Temperature Status

Press the  button for 3 seconds to enter the query interface, then use the  and  buttons to scroll through the pages.

Code	Parameter	Remark
T1	Exhaust temperature	
T2	Suction temperature	
T3	Water outlet temperature	
T4	Cooling coil temperature	
T5	Heating coil temperature	
T6	Ambient temperature	
1F	EEV steps	
od	Operation mode	0: OFF/Standby 1: Heating 2: Cooling
OF	Fan motor status	ON OFF
dF	Defrosting state	
STF	Four-way valve status	
Pu	Water pump status	
HE1	Failure code history 1	
HE2	Failure code history 2	
HE3	Failure code history 3	
HE4	Failure code history 4	
Pr	Main board software version	
Sr	Display software version	

Code	Parameter name	Range	Default Value
L0	Target temperature setting in heating mode	15 ℃~40 ℃	27 ℃
L1	Deviation temperature setting for chiller starts or re-starts in heating mode	0 ℃~18 ℃	2 ℃
L2	Deviation temperature setting in heating constant temperature shutdown	0 ℃~18 ℃	0 ℃
L3	Target temperature setting in cooling mode	2 ℃~30 ℃	20 ℃
L4	Deviation temperature setting in chiller starts or re-starts in cooling mode	0 ℃~18 ℃	2 ℃
L5	Deviation temperature setting in cooling constant temperature shutdown	0 ℃~18 ℃	0 ℃
L6	Target temperature setting in Auto mode	2 ℃~40 ℃	27 ℃
L7	Water pump working mode	0: The water pump is not stopped during constant temperature shutdown. 1: When shutting down at constant temperature, the water pump delays the compressor to turn off for 60 seconds. Every (L8) minutes open 5 minutes	0
L8	The running interval of the water pump when shutting down at constant temperature	3~180min	30
L9	Sterilizer mode (This function is only available for the chillers equipped with sterilizer.)	0:Manual 1:Auto	0

ERROR CODES

Code	Fault Description
E01	Exhaust temperature sensor failure
E05	Heating coil temperature sensor failure
E09	Suction temperature sensor failure
E19	Cooling coil temperature sensor failure
E18	Water outlet temperature sensor failure
E21	Communication failure between display and main board
E22	Ambient temperature sensor failure
P01	Water flow protection for circulation pump
P02	High pressure protection

P06	Water flow protection for self-priming pump
P11	High exhaust temperature protection
P17	Anti-freezing protection
P23	Low water outlet temperature protection for cooling
P25	Low/high ambient temperature protection
P26	High water outlet temperature protection for heating

Trouble Shooting

NO.	Fault	Analysis	Solution
1	High pressure protection	1. Loose wiring or poor connection of high pressure switch 2. There is something wrong with high pressure switch 3. Main board is broken 4. Poor condensing 4.1 Water temperature is too high (over range operation). 4.2 Low water flow 4.2.1 The valve in water system is not open. 4.2.2 Waterway blockage, may appear in the heat exchanger or valve part. 4.2.3 Improper water pump selection 4.2.4 The water pump is broken . 5. Refrigerant system blockage, may appear in the throttle part. 6. Refrigerant system is mixed with air, maybe the vacuum is not enough.	1. Reconnect the wire. 2. Replace the high pressure switch. 3. Replace the main board. 4.1 Operate within the allowable range. 4.2.1 Open the valve. 4.2.2 Clean the blocked part or replace it . 4.2.3 Change the pump according to the water flow and water head. 4.2.4 Replace the water pump. 5. Clean or replace the clogged part. 6. Vacuumize and refill the refrigerant.
2	Water flow protection	1. The connection between water flow switch and main board is poor. 2. The water flow switch is installed wrong. 3. Water flow switch failure. 4. Main board failure. 5. Low water flow 5.1 The water system is blocked. 5.2 Water pump is not suitable 5.3 Water pipe is small 5.4 The water flow switch is stuck and cannot be reset. 6. No water flow 6.1 The valve is not open. 6.2 The water pump is not working. 6.3 Water pump failure.	1. Reconnect the water flow switch cable 2. Install the water flow switch in the correct way. 3. Need to replace the water flow switch 4. Need to replace the motherboard 5.1 Clean or replace the blocked part. 5.2 Change the pump according to the water flow and water head. 5.3 Need to change the water pipe. 5.4 Reset the water flow switch manually. 6.1 Open the valve. 6.2 Turn on the pump. 6.3 Need to replace the water pump.

NO.	Fault	Analysis	Solution
3	High exhaust temperature protection	1. Temp.sensor fault. 2. Water flow switch fault 3. Leakage happen,and refrigerant is not enough . 4. Low water flow 4.1 The water system is blocked. 4.2 Water pump is not suitable 4.3 Water pipe is small 4.4 The water flow switch is stuck and cannot be reset. 5. No water flow 5.1 The valve is not open. 5.2 The water pump is not working. 5.3 Water pump is broken.	1. Need to replace the temp.sensor. 2. Need to replace the water flow switch. 3. Repair the leakage,and refill the refrigerant according to the nameplate. 4.1 Clean or replace the blocked part. 4.2 Change the pump according to the water flow and water head. 4.3 Need to change the water pipe. 4.4 Reset the water flow switch manually. 5.1 Open the valve. 5.2 Turn on the pump. 5.3 Need to replace the water pump.
4	Over-current protection	1. Poor condensing 1.1 Water temp. is too high (over range operation). 1.2 Low water flow 1.2.1 The valve in water system is not open. 1.2.2 Waterway blockage, may appear in the heat exchanger or valve part. 1.2.3 Improper water pump selection 1.2.4 The water pump is broken . 2. Refrigerant system is mixed with air, maybe the vacuum is not enough. 3. The water pipe is blocked. 4. The valve opening steps not enough. 5. Excessive refrigerant. 6. The fan is blocked.	1.1 Operate within the allowable range. 1.2.1 Open the valve. 1.2.2 Clean the blocked part or replace it . 1.2.3 Change the pump according to the water flow and water head. 1.2.4 Replace the water pump. 2. Vacuumize and refill the refrigerant according to the nameplate. 3. Clean or replace the water pipe. 4. Turn the valve up appropriately. 5. Bleed out the refrigerant and refill the refrigerant according to the nameplate. 6. Clean out the blockage from the fan or replace the fan.
5	Ambient/Inlet /Outlet/Exhaust/ Suction /Heating coil /Cooling coil sensor fault	1. The connection between the temp. sensor and the main board is poor. 2. Temp. sensor fault. 3. The sensor resistance on the main board fault.	1. Reconnect the temp.sensor cable. 2. Replace the temp.sensor. 3. Replace the main board.

NO.	Fault	Analysis	Solution
6	Communication fault	1. The connection between wire controller and main board is poor. 2. Wire controller fault. 3. Main board fault. 4. Communication wire and strong electricity wire put together, resulting in power interference communication	1. Reconnect the wire controller cable. 2. Replace the wire controller. 3. Replace the main board. 4. Communication wire is placed separately from the strong electricity wire.
7	Anti-freezing protection	1. Low ambient temp. running. 2. Low water temp.	1. When the ambient temp. is ≥ 2°C, exit the anti-freeze state. 2. When the inlet water temp. > 15°C, exit the anti-freeze state.

OTHER MALFUNCTIONS AND SOLUTIONS(NO DISPLAY ON WIRE CONTROLLER)

No.	Phenomenon	Cause	Solution
1	Unit is not running	1. Power outage 2. Power switch is not connected 3. Power switch fuse is burned-out 4. Timing is not up	1. Please wait for power supply recovery 2. Connect power 3. Replace fuse 4. Please wait or cancel timing setting
2	Unit is not running after starting up	1. Compressor protection time interval is not up 2. Water temp. of the unit does not reach starting up water temp. value	1. Please wait patiently for the end of protection time 2. Normal phenomenon and wait for water temp. to reach
3	Unit is running normally, but can't get the demand water temp.	1. Improper temp. setting 2. Filter element is dirty 3. Air inlet port or outlet port of outdoor machine or indoor machine is blocked	1. Set up proper temp. 2. Replace the filter element 3. Clear tuyere obstruction
4	Unit is running automatically	Reach timing to start up	Please shutdown manually or cancel timing if needn't start up

SOFTWARE INSTALLATION



Method 1 - App Store Search

Search for "Smart Life" in the App Store or Google Play, then tap GET / Install to download the application.

Method 2 – QR Code

Scan the QR code provided in the manual to download the Smart Life application directly.

Available for iOS and Android users.

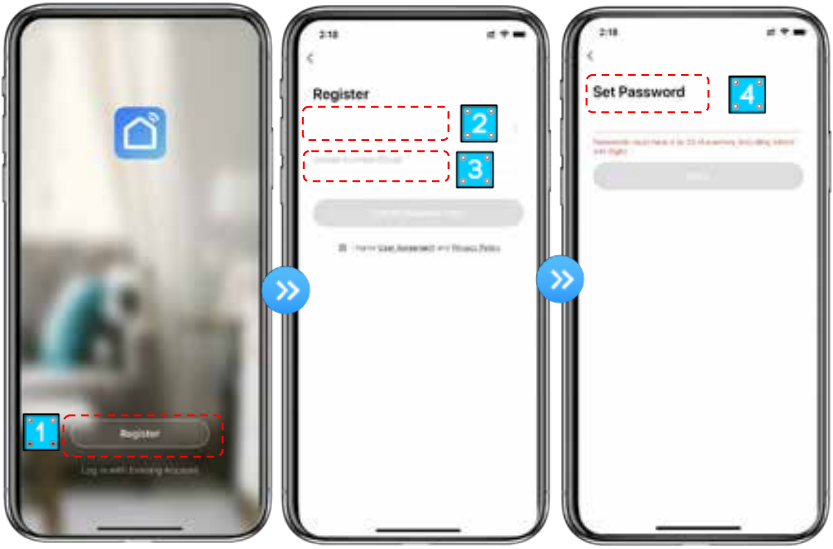
HEAT EXCHANGER MOBILE PHONE APPLICATION

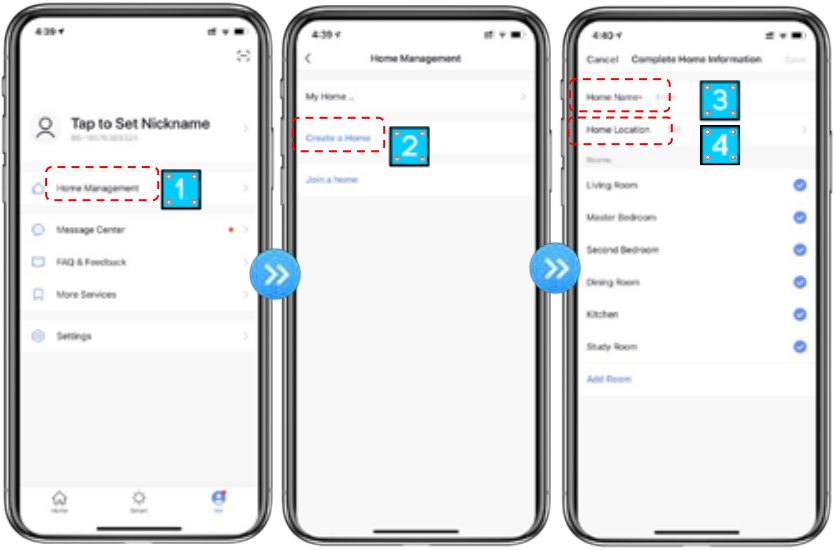
LAUNCHING THE APPLICATION

After installation, tap the Smart Life icon on your phone to start the application.

1. REGISTRATION

New users must tap Register to create an account.
Enter your phone number ➔ tap Get Verification Code ➔ enter the received code ➔ set a password





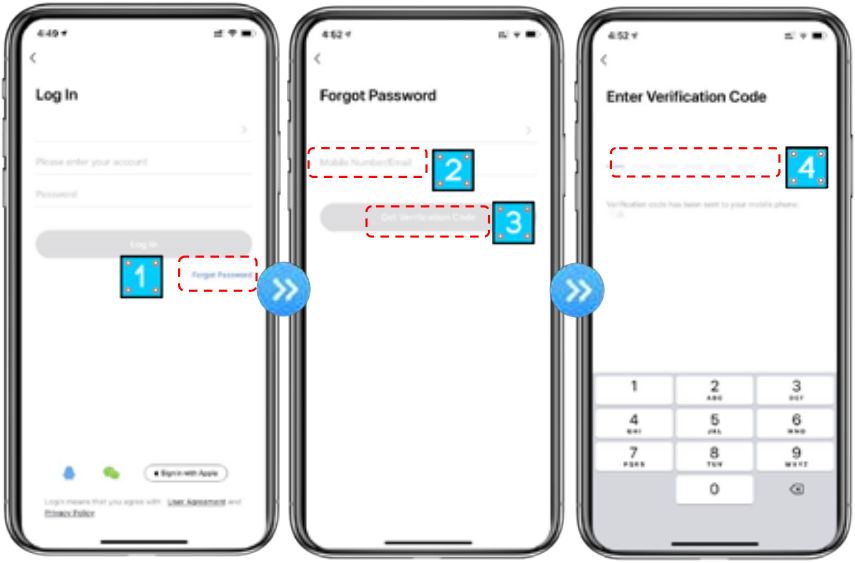
After registration you need to create a home environment:
Create a Home ➔ Set Home Name ➔ Set Home Location ➔ Add Rooms.

2. LOGIN WITH ACCOUNT AND PASSWORD



Existing users can log in directly with their account and password.

If you forget your password, select "Forgot Password", enter your phone number, and log in using a verification code.



After logging in or creating a home, the main interface of the application will appear.



The device will be displayed as “Ice Bath Chiller.”

Note:

Tap the device to view its status, where you can set the operating mode, turn the unit ON or OFF, and configure the timer.

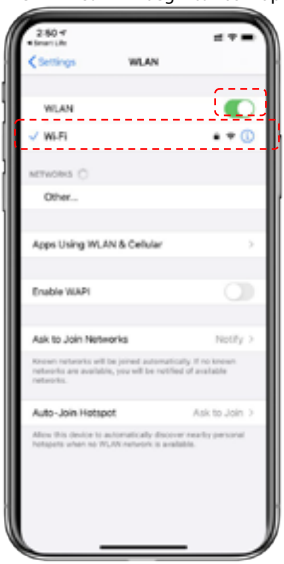
Tap the “+” icon to add new devices.

3. WI-FI MODULE CONFIGURATION STEPS:

Step 1

With the power ON, press and hold the  and  buttons simultaneously for **3 seconds** to enter network configuration mode.

The  icon will begin to flash rapidly.



Step 2

Enable Wi-Fi on your phone and connect to a Wi-Fi network that has internet access.



Step 3

Open the Smart Life app.

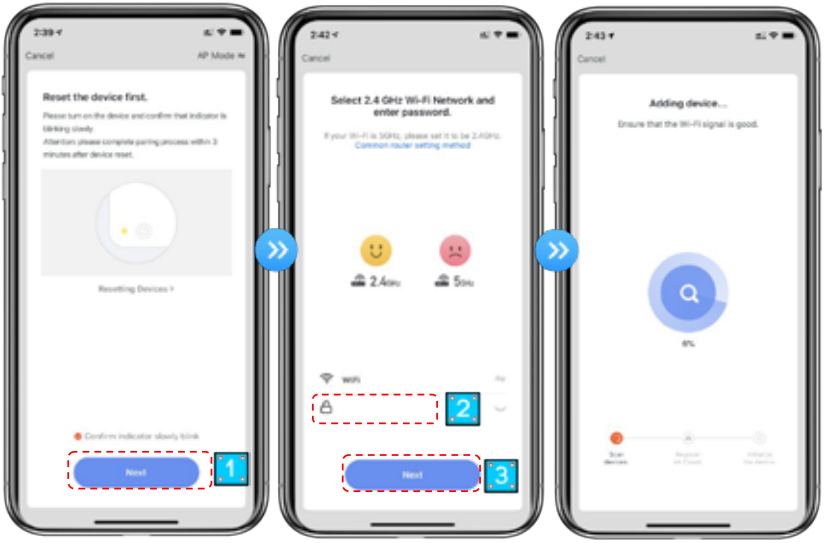
Tap "**+ Add Device**" in the top right corner → select Large Home Appliances → choose Smart Heat Pump.

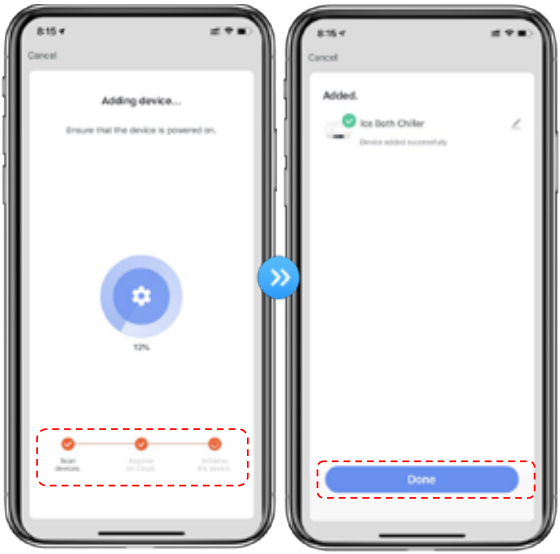
Step 4

Confirm that the  indicator on the controller is flashing rapidly, then tap "Confirm indicator rapidly blinking."

Enter your phone's Wi-Fi password (must be the same network your phone is connected to) and tap Next.

The app will begin connecting to the device.





Atep 5

When the steps Scan Devices ➔ Register on Cloud ➔ Initialize Device are completed, the connection is successful.

HEAT EXCHANGER MOBILE PHONE APPLICATION

APP FUNCTIONS

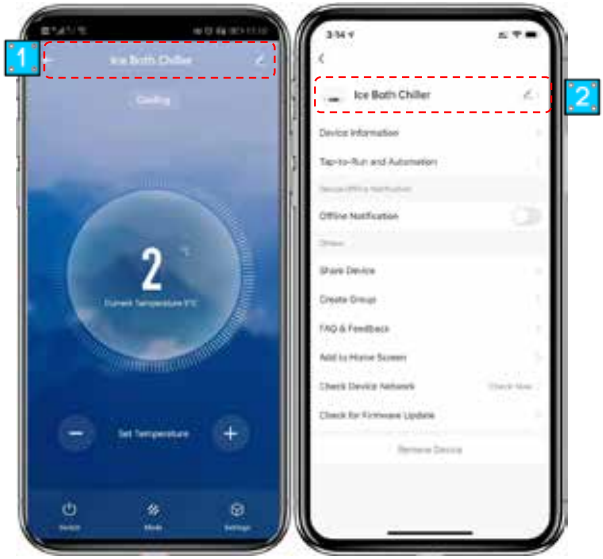
After the device is successfully bound, tap Smart Heat Pump to open the control interface.



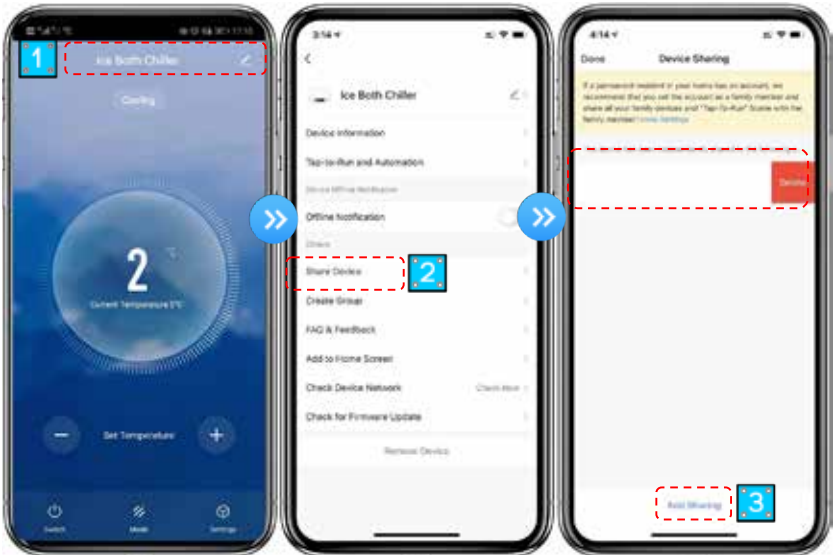
1. Back
2. More Options – change device name, location, network status, sharing, device info
3. Temperature Adjustment – rotate circle counter-clockwise to decrease, clockwise to increase
4. Target Temperature
5. Current Temperature
6. ON / OFF
7. Mode Selection – Heating / Cooling / Auto
8. Timer – set scheduled on/off times

RENAME DEVICE

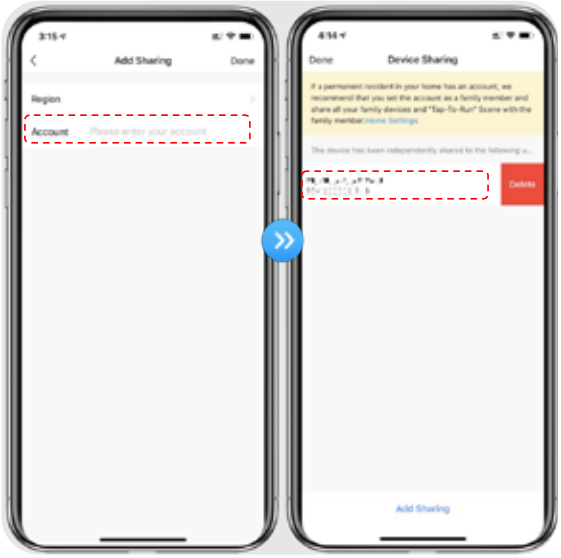
Open device details ➔ tap Device Name ➔ enter new name.



DEVICE SHARING



1. Tap on Ice Bath Chiller on the top of the screen
2. Tap on Share Device
3. Enter the account of the user to share with ➔ tap Done



Shared users will appear in the list

Swipe left on a user to remove sharing access

HEAT EXCHANGER MOBILE PHONE APPLICATION



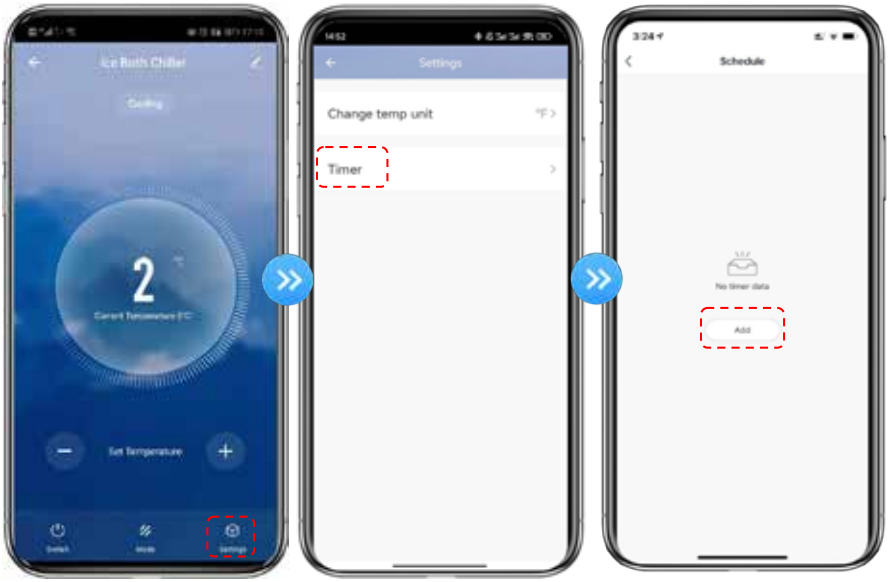
The interface of the person to be shared is as follows. The received shared device is displayed.
Click it to operate and control the device.



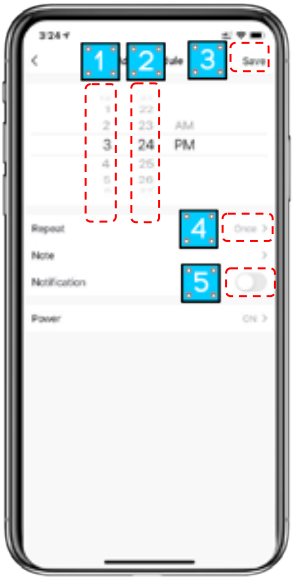
MODE SELECTION

Tap the mode "" icon to choose between Auto / Heating / Cooling.

TIMER SETTING

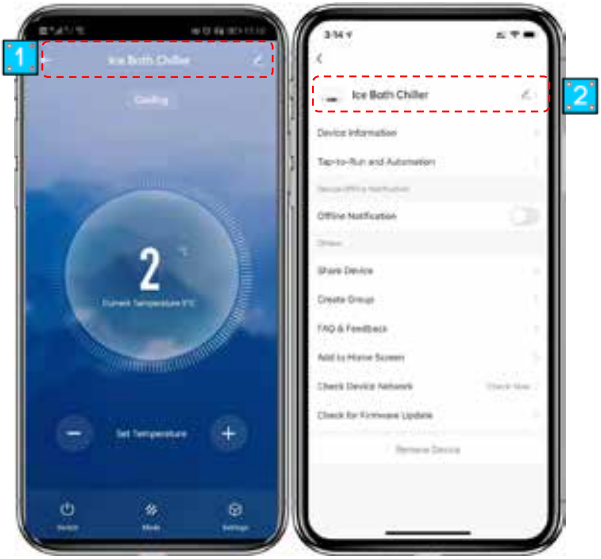


Tap Settings. Tap the "Timer" icon Add schedule



Set schedule:

1. Hours
2. Minutes
3. Save the settings
4. Set the repetition
5. Turn notification on/off



DEVICE REMOVAL

Open device details "✎" and tap Remove Device.

Indicator light under "✎" flashes rapidly for 3 min, The network can be reconfigured within 3 minutes, and the network can be quit if it is not connected within 3 minutes.

MAINTENANCE AND WINTERIZING

MAINTENANCE

⚠ WARNING:

The following operations must be carried out by a qualified professional at least once per year.

Disconnect the power supply before any maintenance.

CLEANING

a. Clean the chiller casing with a damp cloth only.

b. Do not use detergents or household chemicals as they may damage the surface.

c. Carefully clean the rear evaporator using a vacuum cleaner with a soft brush.

ANNUAL MAINTENANCE

A qualified technician must:

a. Perform safety inspection

b. Check electrical wiring integrity

c. Verify grounding

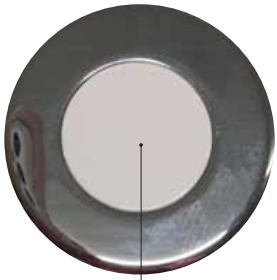
d. Inspect pressure gauge and refrigerant level

SINGLE-BUTTON AUXILIARY LED CONTROL

SINGLE-BUTTON CONTRO

AUXILIARY CONTROL BUTTON FOR THE ICELAND COLD PLUNGE TUB

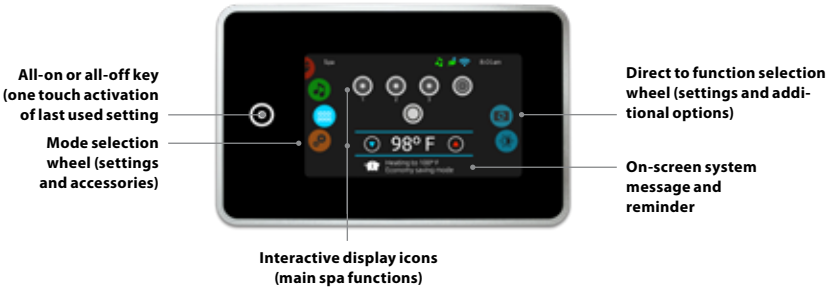
The single-button panel serves as an additional control interface that allows you to operate the lighting function.
With this button you can turn the lights on and off and change the color of the LEDs



SMART TOUCH

TOUCH SCREEN KEYPAD

No buttons, keys and overlays! Mode and function selection wheels, all-on or all-off one touch activation key of last used settings, interactive display icons and on-screen messages are all elements of the Smart Touch user interface designed to let spa users interact intuitively with their spa and its value-added accessories.



NOTIFICATION ICONS

Notification icons at the top right-hand side of the screen show the status of connected value-added accessories.



SPAS FUNCTIONS

Quick and easy step-by-step instructions to control the main functions and to configure the system settings of your spa from its Smart Touch main spa keypad.



TURN KEYPAD ON

3 minutes after the last pump is turned off, the screen will shut off if there is no touch activity.

Touch the screen to turn on the keypad.

Then follow the instructions on the screen to access the main screen.



ALL-ON, ALL-OFF TARGET KEY

Smart Touch features an all-on or all-off one touch activation key of last used settings that, when pressed, stops or starts all working components and accessories at once.

From the home page you can access the following modes:

- sanitization (with in.clear connected)
- audio (with Aquasoul Pro connected)
- color (with in.mix installed)
- spa
- settings

To select a mode, slide the left wheel up or down until the desired icon menu is highlighted in the middle.

SPA MODE



SPA MODE

To select the spa mode, slide the left wheel up or down until the spa icon is highlighted in the middle. The home page will be displayed its equipment start or stop keys, up and down buttons, water temperature, messages and quick access to display options:

- display orientation
- display contrast

To select an option, slide the right wheel up or down until the desired icon menu is highlighted in the middle.



START OR STOP ACCESSORIES

To start or stop an accessory (pump, blower, light), touch the associated icon. Icons will become animated when their accessory is turned on, and animation will stop when turned off.

Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than one speeds press the button until it reaches the desired speed.



WATER TEMPERATURE

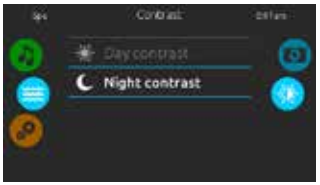
The temperature shown at the bottom of the screen shows the current water temperature. Use the Up and Down icon to set the desired temperature. The set point will appear in blue. After 3 seconds without any change to the set temperature value, the current water temperature will reappear.

When the set value is lower than the current temperature Cooling to xx.x will appear below. When the set value is higher than the current temperature, Heating to xx.x will be indicated under the value. Normally there is a short delay before the heating starts, during which Heating Suspended is indicated under the value.



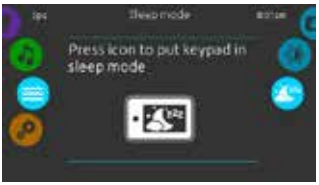
DISPLAY ORIENTATION

To modify the display orientation settings, slide the right wheel until the display orientation icon is highlighted in the middle. Simply touch the line of the orientation you want to select.



DISPLAY CONTRAST

To modify the display contrast settings, slide the right wheel until the display contrast icon is highlighted in the middle. Simply touch the line of the contrast you want to select.



SLEEP MODE

Press key to go directly into the sleep mode. In sleep mode, water splashing on the keypad can't inadvertently start/stop a pump.

SETTINGS

You can use the Settings mode to manage settings of your spa system.



To select the settings mode, slide the left wheel up or down until the settings icon menu is highlighted in the middle.

In the Settings page you can access the following:

- water care
- maintenance
- date & time
- keypad
- electrical configuration
- wifi
- about

To select an item, slide the right wheel until the desired icon is highlighted in the middle or press on the menu name.

WATER CARE

The Water care page will help you set up your ideal filtration and heating settings.

Choose, set or modify one of the 5 suggested modes depending on your needs at any given time.

AWAY FROM HOME

In this mode the spa will always be in economy; the set point will be reduced by 20° F.

BEGINNER

The spa will never be in economy mode and will be filtering according to the pack's low level configuration.

ENERGY SAVINGS

The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend.

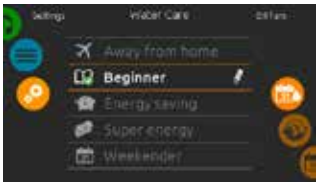
SUPER ENERGY

The spa will always be in economy mode during peak hours, every day of the week.

WEEKENDER

The spa will be in economy mode from Monday to Friday, and will run normally on the weekend.

MODIFYING WATER CARE SCHEDULES







WATER CARE

To modify a Water care category, touch the pen icon at the right end of the desired water care to open the selected Water Care menu.

ECONOMY

Touch the Economy tab to change the economy schedule. You can add economy schedules by touching the « + » symbol . To delete a schedule, touch the garbage can icon at the right end of the desired line.

FILTER CYCLES

Touch the Filter cycle tab to change the filter cycle schedules. You can add filtration schedules by touching the « + » symbol . To delete a schedule, touch the garbage can icon at the right end of the desired line.

MODIFYING WATER CARE SCHEDULES





In Economy mode, the set point will be reduced by 20°F, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

You can modify the programmed schedules by selecting one and adjusting the schedule.

You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated every week. The time and duration are set in 30 minute increments.

Once you have set the schedule, use the calendar icon to go back.

The filtration schedule shown on the screen will apply to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to N/A on the screen, and only the start time can be modified.





PURGES

Touch the Purge tab to change the purge settings. You can add purges by touching the « + » symbol.

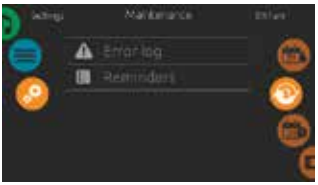
To delete a schedule, touch the garbage can icon at the right end of the desired line.

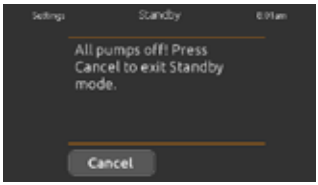
You can modify the programmed purges by selecting one and adjusting the schedule.

You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated every week. The time and duration are set in 30 minute increments. Once you have set the purge,

use the calendar icon to go back.

MAINTENANCE & ERROR LOG







MAINTENANCE

To modify maintenance settings, slide the right wheel until the maintenance icon is highlighted in the middle.

From the Maintenance page you can access the following:

- Error log
- Reminders

Simply touch the line of the item you want to change.

STANDBY

The Standby mode allows you to service your spa. Pumps will stop for 30 minutes and will automatically restart after.

The normal page will return at the end, once the pumps will be restarted.

REMINDERS

Smart Touch keypad will provide reminders about maintenance required on your spa, like rinsing or cleaning the filter. Every task has its own duration, based on normal use.

The reminders menu allows you to check the time left before maintenance is required, as well as to reset the time once a task has been completed.

To reset a task, select it by pressing the curved arrow, then confirm when prompted. Once you have confirmed, the task will be reset.

DATE AND TIME







DATE AND TIME

To modify date and time settings, slide the right wheel until the date and time icon is highlighted in the middle.

Simply touch the line of the item you want to change.

SET DATE

Here you can adjust the year, month and date. Simply swipe up and down the column you want to change, and select the desired value. When done, touch the calendar icon at the right of the screen.

SET TIME

Here you can change the hour, minute and time format. Simply swipe up and down the column you want to change, and select the desired value. When done, touch the calendar icon at the right of the screen

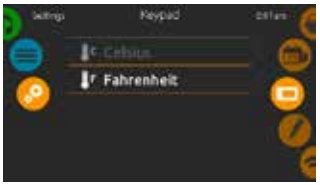
KEYPAD SETTING



KEYPAD SETTINGS

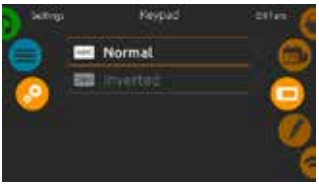
To modify keypad settings, slide the right wheel until the keypad icon is highlighted in the middle.

Simply touch the line of the item you want to change.



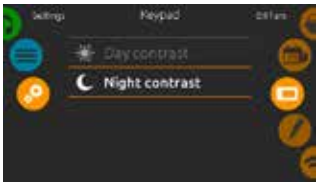
TEMPERATURE UNITS

Use this page to set or change the temperature in F° or C° units.



DISPLAY ORIENTATION

Use this page to set or change the normal or inverted display orientation.



DISPLAY CONTRAST

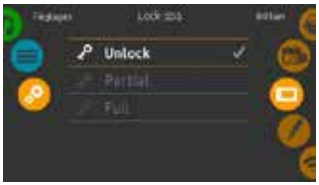
Use this page to set or change the display day or night contrast.



DISPLAY LANGUAGE

Use this page to set or change the display language.

KEYPAD LOCK/UNLOCK



When this option is enabled, the user can partially or completely lock the keypad. When the user wants to lock the keypad he is asked to select a 4-digit code. The same code will be needed to unlock the keypad. Next time he wants to lock the keypad, he will be prompted again to select a 4-digit code (same functionality as a Safe in a hotel room).



The keypad can be unlocked with a universal unlock code (3732) or by a reset of the keypad.

When Full Lock is selected, all functions are locked.



In Partial Lock, you may only activate accessories. Settings may not be changed in this mode.

WIFI

(This function is available only if an in.touch module is connected to your system.)



WIFI SETTINGS

To modify wifi network settings, slide the right wheel until the wifi icon is highlighted in the middle.



WIFI NETWORKS

After a few seconds the available networks will appear on the screen, as well as their signal strength.

Selected network will be identified by a green check mark.

Swipe Up or Down the list to select your network.



WIFI NETWORK PASSWORD

If the wifi network is password protected, enter it when keyboard prompts. Use Enter key to validate the password.

If no password is required the in.touch will connect automatically.

WIFI



IN.TOUCH MODULE NOT CONNECTED

If the in.touch module of your spa system is not connected, this message will be displayed.

WI-FI (in.touch 2)



When a in.touch 2 is detected, this network will appear.

MISCELLANEOUS



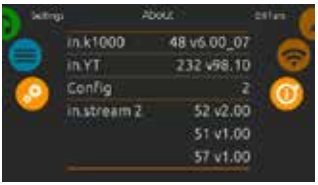
This menu gives access to modify the Warm Weather option and info messages in the media center.

WARM WEATHER



When pumps are running, they produce heat that may increase your water temperature. "Warm Weather" option gives you the option to bypass the pack filtration over temperature feature. When Warm Weather is "OFF" the filtration over-temperature is disabled and your spa filtering will continue even if the water temperature is high.

ABOUT YOUR SPA SYSTEM



ABOUT

To get info about your spa system, slide the right wheel until the about icon is highlighted in the middle.

Information about Smart Touch software number and the revision numbers of the different components of your system will be displayed.

ELECTRICAL CONFIGURATION



Please do not make changes in this section unless you are a qualified electrician.

A password will be required. Please contact a representative in order to obtain that password.



To change the low-level configuration, the number of phases and the input current of your spa system, slide the right wheel until the electrical configuration icon is highlighted in the middle.

MAINTENANCE LEVEL



Use a test kit to check the bromine level. It should be between 3-5 ppm. If the bromine level stays within that range for 3 consecutive days, your maintenance level is well adjusted.

MODIFY THE MAINTENANCE LEVEL

To verify or modify the maintenance level, slide the right wheel until the maintenance icon is highlighted in the middle.

The recommended maintenance level is 12.

Use the up or down arrow keys to adjust the level.

Note that the level can be adjusted by increment of 2 using the up and down arrow keys.

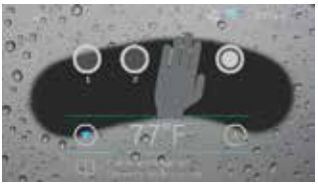


Please note that it is not recommended to change the maintenance level at steps greater than 2.

A confirmation will be asked by the system if you do.

If you do, retest the bromine level the day after. If the bromine is not in the 3-5 range and is higher than 5 ppm, decrease the maintenance level. If the bromine is lower than 3 ppm, increase it. Repeat until the test reads a bromine level in the 3-5 range.

TOO MUCH WATER ON DISPLAY



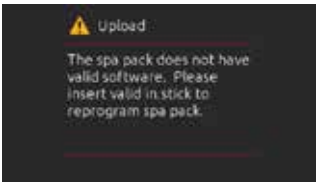
WIPE SCREEN

This message appears when too much water is detected on the touch screen. Simply wipe away excess water.

INSTALLATION ERROR MESSAGES

Upon connecting Smart Touch to your spa system you may see one of two error messages. Please follow the instructions in the message or contact your dealer for more information.





Error messages on the screen list and definitions:

http://geckokeypads.com/k1000errormessages

SMART WINTER MODE (SWM)

There is a thermometer sensor in the control unit that measures the temperature of the machinery. It monitors how cold it is outside the cover - including the insulation - and turns on the motors from time to time to direct hot water into the machinery to avoid freezing.

The SWM (Smart Winter Mode) will not turn on if the sensor measures above 21C.

However, if it falls below that, it will turn on for 24 hours.

— if it measures 20-16 degrees, it will run the motors for 1 minute every 2 hours.

— if it measures 15-13 degrees, it will run the motors for 1 minute every hour.

— if it measures 12-11 degrees, it will run the motors for 1 minute every 30 minutes.

— if it measures 10 degrees (or less), it will run the motors for 1 minute every 15 minutes.

This is a safety function which cannot be turned off!

WARM WEATHER FUNCTION

During the filtration cycle, the kinetic heat generated by the circulating motors is transferred to the pool water, so the pool water temperature can possibly rise above the set temperature on the control panel. The control unit continuously monitors the water temperature during the filtration cycle and if it rises above the set temperature by more than 3 degrees celsius, it automatically shortens the duration of the filtration period so the water does not overheat.

Besides continuously measuring the water temperature, it automatically changes the duration of the filtration period, but filters for at least 4 hours if the spa is equipped with a circulating motor, or for at least 2 hours if the water is filtered by the massage motor.

This function can only be turned off on whirlpools equipped with a colour touch screen.

WARNING:

Before installing or connecting the unit, please read the following

For optimum performance please carefully read the manual before installation.

Install the in.touch 2-co module at least 12” (30 cm) away from any metal part or any metal foil.

The in.touch 2-co module should be installed such as it can be relocated under the spa in order to obtain optimal reception after final installation of the spa in the yard.

To satisfy fcc rf exposure requirements for mobile and base station transmission devices, a separation distance of 8” (20 cm) or more should be maintained between the in.touch 2 Modules and persons during operation; to ensure compliance, operation at closer than this distance is not recommended.

The antennas used for these modules must not be co-located or operating in conjunction with any other antenna or transmitter.

To power the in.touch 2-en, only use the power supply unit provided with the in.touch 2-en.

This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.

Children should be supervised to ensure that they do not play with the appliance.

Disposal of the product



The appliance (or the product) must be disposed of separately
In accordance with the local waste disposal legislation in force.

Compatibility requirements

in.touch 2 modules for FCC (North America) models (915 MHz):
Home and spa transmitter kit: 0608-521020, 0608-521023

in.touch 2 modules for ETSI (Europe) models (868 MHz):
Home and spa transmitter kit: 0608-521021, 0608-521024

Compatible spa packs:
in.xm2, in.xe, in.ye, in.yj and in.yt spa systems manufactured in or after 2012.

in.touch 2 application: Compatible with devices running:
iOS 8.0 or higher
Android 2.3 or higher

Router and installation requirements

Any standard router with an available 100 Mbps (wired LAN) RJ45 port can be used. The router must also have its Port 10022 open, which is normally a default setting. A 3-foot (0.9 m) Ethernet cable is included.
The home transmitter will need a main supply (120V in North America, 220V in Europe) nearby to allow connection of the transformer.

Aeware®, Gecko®, and their respective logos are Registered Trademarks of Gecko Alliance Group.
in.touch 2™, in.xm2™, in.xe™, in.yt™, in.ye™, in.therm™ and their respective logos are Trademarks of Gecko Alliance Group.

All other product or company names that may be mentioned in this publication are tradenames, trademarks or Registered Trademarks of their respective owners.



in.touch 2

Easily integrate your spa to the Internet of Things!

Simplest of setups

in.touch 2 eliminates all the complexities of connecting your spa to the Internet and transforms your smartphone or tablet into your ultimate Wi-Fi spa remote control. in.touch 2 comes with a state-of-the-art app and 2 prepaired radio frequency transmitters, one being part of your spa system and the second one being connected to your Internet router. Both RF transmitters are prelinked to one another, enabling an immediate and perfect communication between you and your spa.

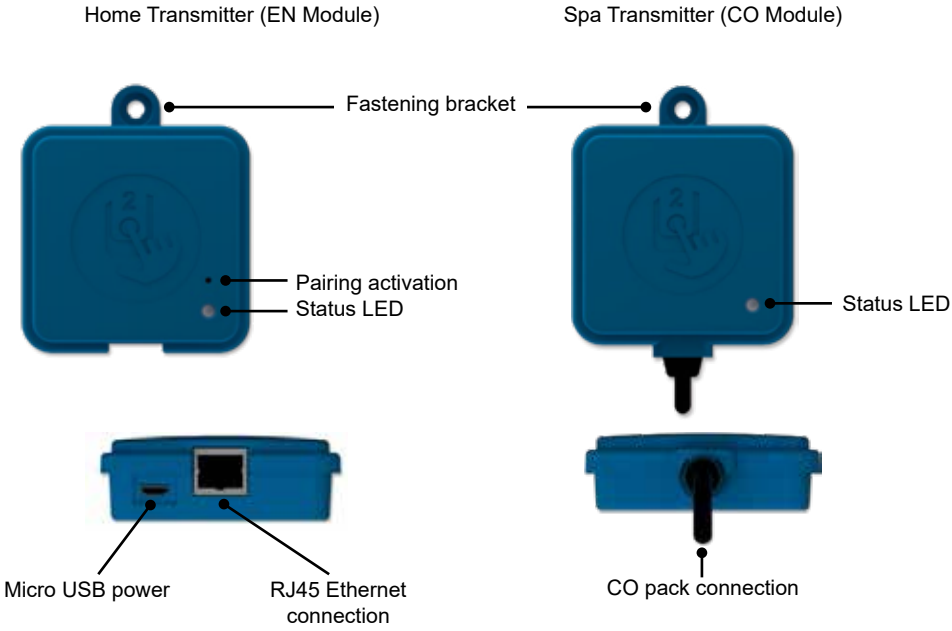
Strong and long range communication signal

Through their proprietary RF technology, in.touch 2 transceivers emit a strong, stable and long range signal between your spa and your router (about 3 times longer than regular Wi-Fi signal. No need for repeaters or boosters: your spa will always remain within reach in typical backyard settings.

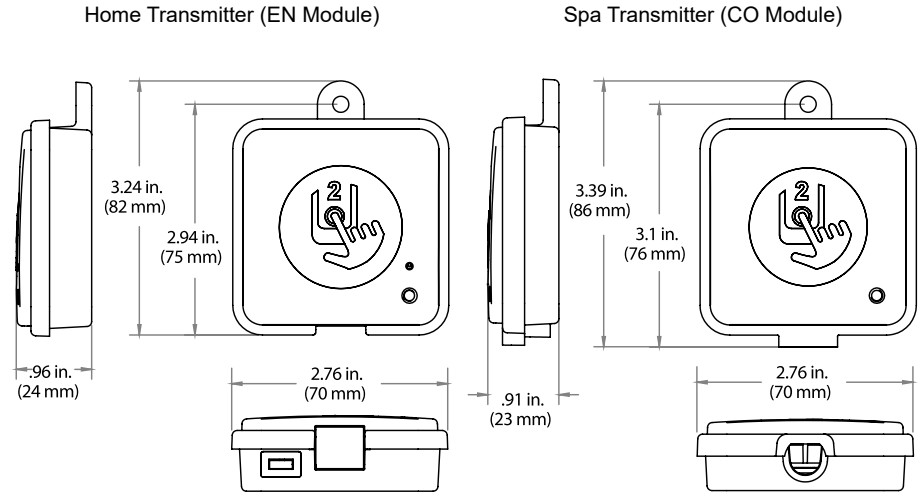
State-of-the-art app with push notifications

in.touch 2 streamlined application makes it very easy to control and program all the functions and features of your spa from your smartphone or your tablet. Even when you're away from home, you get full control of your water care settings, filtration cycles, water temperature, economy modes and a lot more. Push notifications will always keep you informed on the status of your spa, even when your app is not open.

in.touch 2 overview



in.touch 2 dimensions



in.touch 2 Spa Transmitter (CO Module) installation

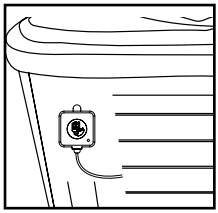
Before proceeding with any installation, be sure to turn spa power off.

The in.touch 2 Spa Transmitter unit must be installed under the spa skirt, at least 12” (30 cm) away from any metal component or structure. This is necessary to ensure optimal transmission. In some cases, it may be necessary to relocate the unit once the spa is installed in the yard to ensure proper signal transmission and distance.

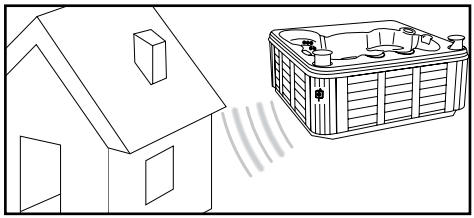
Install the Spa Transmitter so the module can be repositioned to optimize the signal strength in the yard (it is possible to see the signal strength with the in.touch 2 application in the menu Setting -> in.touch network -> Signal strength).
We recommend that you install the unit with a #8 pan head screw.

Here are some suggestions for a successful installation:

- Install the unit as high as possible within the spa skirt, but keep it away from the spa frame if it is metallic.
- Route the cable and leave some slack in the Spa Transmitter cable so the Spa Transmitter can be moved around in case of reception problems.
- Install the Spa Transmitter in a corner of the spa to help avoid metallic components, accessories and piping close to the Spa Transmitter.
- The Spa Transmitter should be installed as close as possible to the house to optimize signal strength. It is recommended to install the in.touch 2 module on the side of the spa facing the house to increase the signal. A body of water between the Spa Transmitter module and the Home Transmitter will reduce the signal strength.





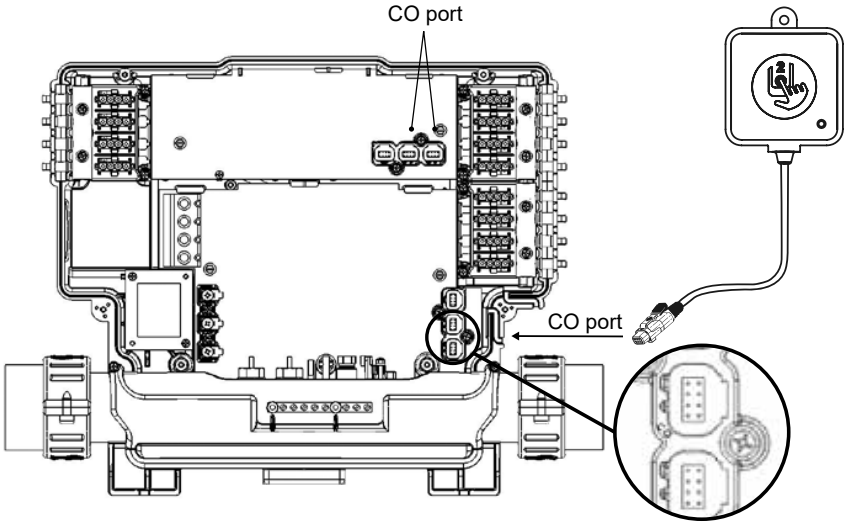


Connection of the in.touch 2 Spa Transmitter (CO Module)

Simply connect the Spa Transmitter module into an available CO port of the spa pack (or any other accessory with a free
CO port, such as the in.stream 2 audio amplifier, or the in.clear spa sanitizing system).

Note that the Spa Transmitter only has a single CO cable and thus must be installed at the end of the CO chain if more than a single accessory is installed on the same CO port of the spa pack.

Note: Before powering up the spa pack again, please go to the next step and install the Home Module (EN Module).



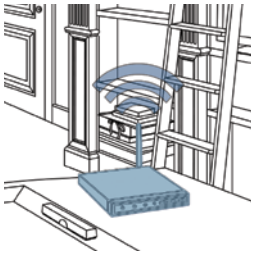
Home Transmitter (EN Module) installation

The Home Transmitter unit must be installed inside the house near the router as it needs to be connected to it. The Home Transmitter is provided with an Ethernet cable and a power supply. If required, a longer cable of good quality can be used by the installer (longer cable not provided) to install the Home Transmitter closer to the spa within the home.
The only requirement for installation location is that household .current be available to power the Home Transmitter using the provided wall transformer.

The Home Transmitter can be fixed in the house to optimize the signal strength. We recommend that you install the unit with a #8 pan head screw.

Here are some suggestions for a successful installation:

- If possible, install device on the first floor of your house.
- If installing in a basement, place at highest level possible and closest to a window.
- Try to install as far as possible from materials that may interfer with signal (ie. metal structures, thick cement walls).
- Install as far as possible from router as the signal emitted by the antenna may interfere with RF signal.

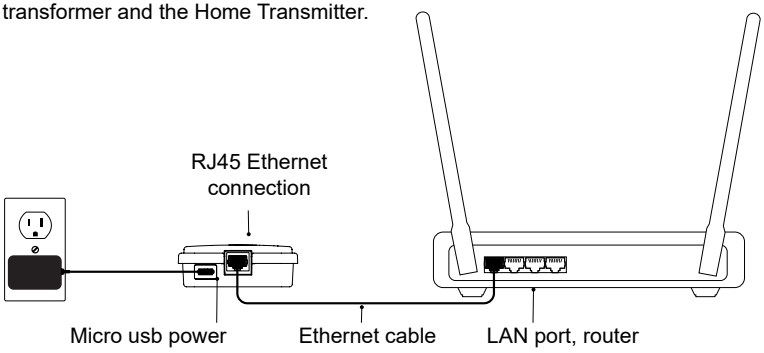




Connection of the Home Transmitter (EN Module)

Simply connect Ethernet cable into the RJ45 port of the Home Transmitter and in one of the available LAN ports on the router.

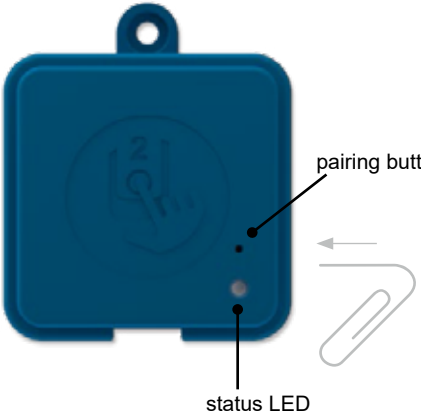
Finally, to power up the Home Transmitter, connect the provided transformer to a 120V (North American model) or 220V (European model) household supply and connect the USB cable between the transformer and the Home Transmitter.

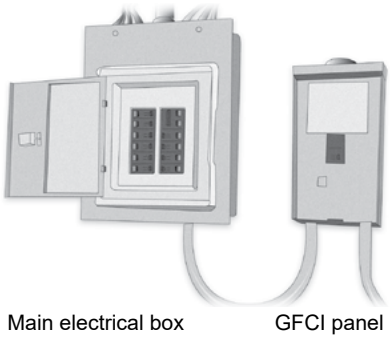


Pairing the Spa Transmitter (CO Module) and the Home Transmitter (EN Module)

The pairing process is used when you need to replace one module of the in.touch 2 kit. Otherwise, the in.touch 2 arrives pre-paired from the factory.

1. Power up the Home Transmitter





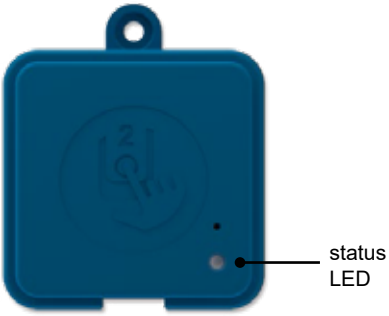
2. Press on the pairing button with a paper clip or some similar tool. When the pairing mode is active the status LED flashes YELLOW in a rapid pattern. The Home Transmitter is then in pairing mode and will remain in this mode until it pairs with an Spa Transmitter, or until it is reset (power cycled).
3. Shut off the spa's breaker (thus turning off the Spa Transmitter), wait a few seconds, and then flip the breaker back on. Within a few seconds, the pairing operation should complete and the Home Transmitter status LED will no longer be YELLOW.

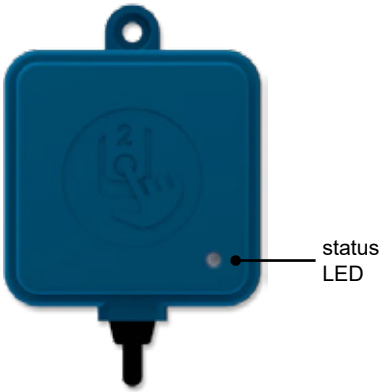
Note: in.touch 2 modules can be paired as often as necessary, but can only be paired with a single counterpart module at a time. Once paired, the modules store this information permanently until the next pairing operation. Pairing information is stored in non-volatile memory, so pairing is not required after a power failure. Only a Home Transmitter can initiate a pairing, so it is important that the pairing begin with putting the Home transmitter module in pairing mode.

If several spas are powered up at the same time with a Home Transmitter in pairing mode (for instance, in a dealer showroom), only the 1st spa to successfully connect to the Home Module will pair. As this can be random, it is recommended that only 1 spa be powered up at a time during the pairing process.

LED

Each in.touch 2 module has a status LED that can be used for troubleshooting purposes. The LED is located on the top of both enclosures.





Home Transmitter	
Pairing mode Yellow (Blinking)	
Router not detected Red	
Router detected Green	
in.touch 2 server detected Module is fully functional Blue	

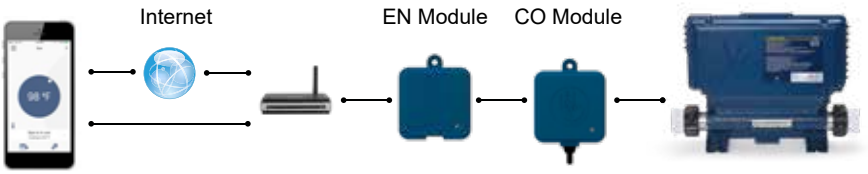
Spa Transmitter	
Pairing mode Yellow (Blinking)	
Spa controller not detected Red	
in.touch 2 server detected Module is fully functional Blue	

** When the LED status is blinking (blue, green or red) this indicates that the communication between the EN module and the CO module it not established.*

Download application

The in.touch app allows you to control your spa using your home network or an Internet connection anywhere in the world. The Wellis Spa Control (in.touch 2) app is waiting for you in the App Store for iOS devices and on Google Play for Android — search for «Wellis Spa Control» then click on it to install.

Use this application



On your home network

It is possible to access your spa with the in.touch 2 app through your home network. To be able to see your in.touch 2 in the application you need to connect your device to the same router (Wi-Fi network) than the one used to connect your Home Transmitter

Go to the Wi-Fi settings section of your mobile device and choose the same network that your spa is connected to (i.e. Home). Once you've selected it, wait until your device confirms the connection.

On the Internet

The in.touch 2 allows you to use the Internet to control your spa from anywhere in the world. In order for them to communicate, both the in.touch 2 module and your device must be connected to a network that allows access to the Internet.

Once your Home Transmitter is connected to the Internet (the LED status is blue), you can use your in.touch 2 app any time your device is also connected to the Internet (wireless or cellular network), even if you are away from home.
To have access to your spa away from home, you will need to have previously linked your mobile device to your spa on your home network.

Setup your Wi-Fi on your device



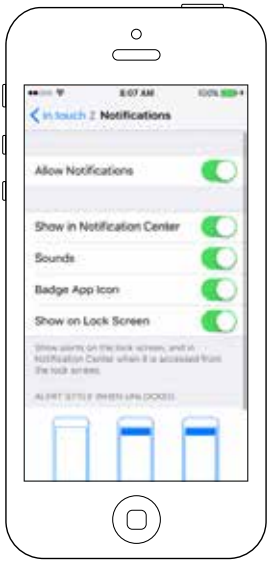
Before using your application, go to the Wi-Fi section of your device's settings. Make sure you are connected to your home network. This needs to be the same Wi-Fi provided by the router to which you connected your Home Transmitter.

Start the in.touch 2 application



Find the icon for the in.touch 2 application, then tap on it to open it.

The first time you use the application a message will ask you: “in.touch 2” Would like to send you notifications. If you choose Allow, the application will send you notifications about the status of your spa. If you choose Don’t Allow, the application will not send you notifications.



If you change your mind later concerning notifications, you may add or remove notifications for the in.touch 2 application.

On iOS, go in your settings menu and choose in.touch 2. Select the notifications menu, you can turn notifications on or off from this page.

On Android, go to your settings menu and then into the notifications menu. Select the in.touch 2 app, from this page you may turn notifications on or off.

Login page



Before using your application, you must create an account first and then, you'll be able to sign in. Your account will give you the opportunity to have access to your spa from any in.touch 2 application.

New account creation



When you choose to create a new account, you agree at the same time our Terms of Service and our Privacy Policy. You can read them at any time through this link: https://geckointouch.com/legal

Choose a spa



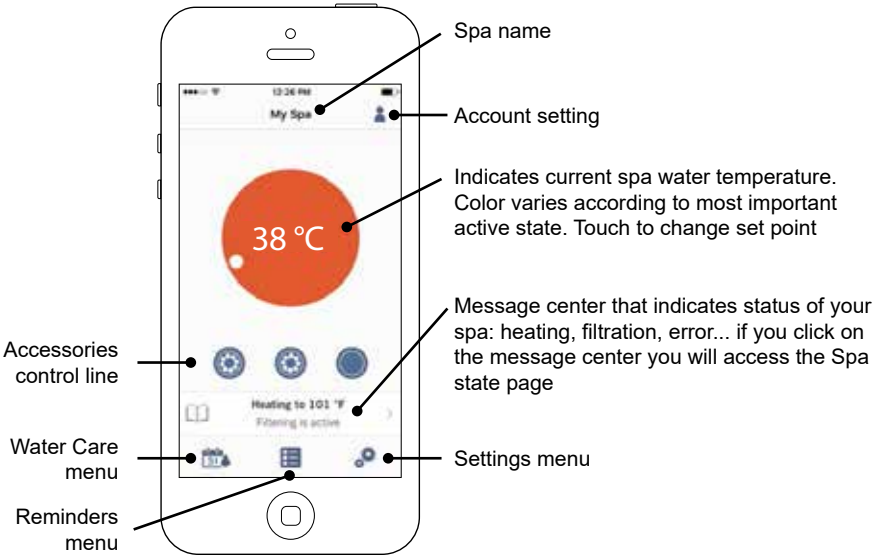
This page displays all the spas detected by your application.
To detect your spa, you need to connect your mobile device to the same network to which you connected your Home Transmitter.

Once you have done a connection with the spa its name will be saved on this page to allow you to connect to this spa from anywhere.
To add a spa later on, go to p. 26 of this techbook for instructions. The RF signal strength (communication between the two in.touch 2 transmitters) is illustrated on the Select a spa page. There are 5 possibile states:

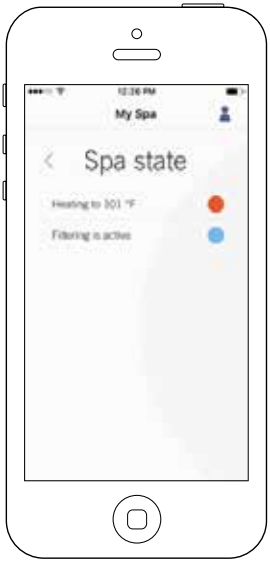
- Signal superior to 80%
- Signal between 80% and 51%
- Signal between 50% and 31%
- Signal below 30%
- The Spa Transmitter is not available

Home page

The main screen gives you access to your accessories, water temperature, water care and settings.



Spa state



This page displays all the active states of your spa. Below is a quick description of each state you may encounter on your spa. Each state is associated to a priority and color that determines the color of the widget on the home page.

- Indicates that there is an error on your spa.
- Indicates that there is presently an active user demand on your spa (ie. pump, blower or light is on).
- Indicates that your spa is now heating to your set point.
- Indicates that your spa is now in a filtering cycle.
- Indicates that your spa is now in economy mode.
- Indicates that your spa is running normally (there is no user demand, heating, no filtration or economy active).

The widget on the home page displays a single color at a time. The color displayed is decided by priority of state. The established priority is as listed above.

Change temperature



Touch the centered widget to reveal the temperature control bar.

Use the slider on the control bar to change your spa's temperature* set point.

** If you are in economy mode your spa temperature will be 20°F below your set point.*

Turn on/off accessories



According to your spa pack configuration, you can start or stop an accessory by simply touching the associated icon. The icon will become animated when the accessory is on. Simply press on the icon to start or stop the accessory.
If your accessory has more than one speed, press the button until the desired speed is reached.

The icon designs are customized according to your spa pack configuration:



Pump

Waterfall

Blower

Turn on/off the lights



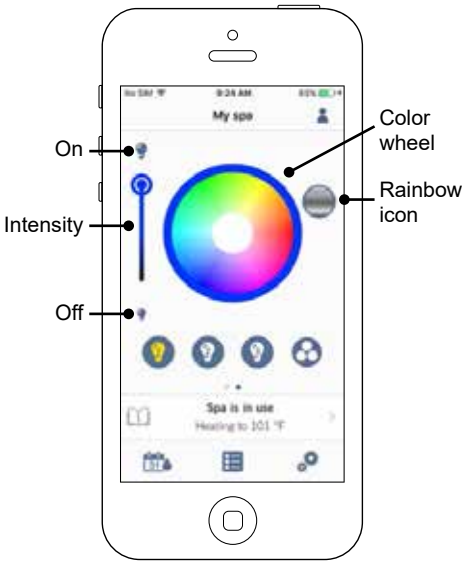
To control your spa lights, simply press the button to turn it on or off

Control your in.mix 300



This menu is only available if an in.mix 300 is detected in your spa accessories

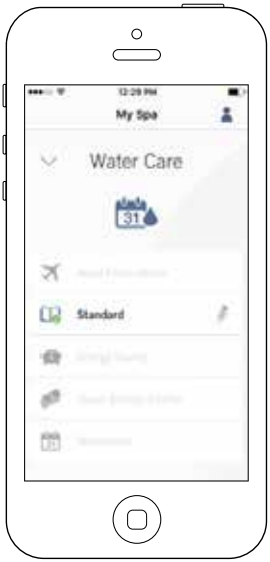
To turn on or off the in.mix 300, you can use, if you want, the light icon on your home page. To go to your in.mix 300 page, simply swap to the left.



The light bulb icons allow you to turn on and off your in.mix 300.

To change the color, use the color wheel to choose the one you want. On the left side, the intensity slider allows you to modify the brightness of your lights. Use the rainbow icon to get color gradation.

Water Care



The Water Care page will help you set up your ideal filtration and heating settings. Choose between Away from Home, Beginner, Energy Savings,
Super Energy and Weekender, depending on your need. Touch the Water Care name you would like to activate, a green check-mark will appear on the icon, indicating you have selected it.

By default, each Water Care mode has pre-configured schedules of economy and filtration.To modify Water Care options, touch the pencil icon at the right end of the desired Water Care to open its menu.

Below you have a short description of each Water Care at default state:

Away From Home:
In this mode the spa will always be in economy; the set point will be reduced by 20° F.

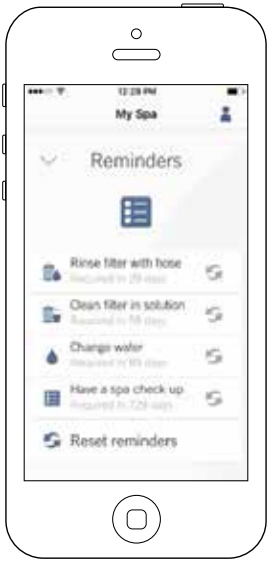
Beginner / Standard:
The spa will never be in economy mode and will be filtering according to the pack's low level configuration.

Energy Savings:
The spa will be in economy mode during the peak hours of the day and resume normal mode on the weekend.

Super Energy Savings:
The spa will always be in economy mode during peak hours, every day of the week.

Weekender:
The spa will be in economy mode from Monday to Friday, and will run normally on the weekend.

Reminders



Reminders page will help you to make a follow-up of your maintenance.
The in.touch 2 will remember you to perform required maintenance tasks on your spa, such as rinse filter or clean filter. Each task has its own reminder duration based on normal use. The owner can reset his reminders after the spa maintenance.

Modifying schedules



In this menu it is possible to add, remove or edit schedules of economy or filtration.

To have access to this menu, simply touch the tabs:
Water Care menu - the little pen at the right of the wanted water care

Touch the Economy tab to modify the economy schedules and Filter cycle tab for the filtration schedules. You can add economy or filtration schedules by touching the « + » symbol.

To delete a schedule, touch the garbage can icon at the right end of the desired line.

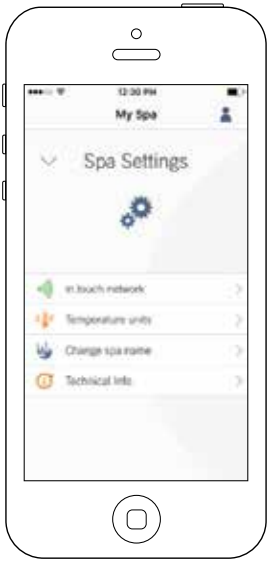
You can modify the programmed schedules by selecting one and adjusting the schedule.

You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days). The schedules will be repeated weekly. The time and duration are set in 30 minute increments. Once you have set the schedule, use the arrow at the top of the page to go back. Ensure that you have selected the desired Water Care mode in the main Water Care menu.

When an economy schedule is active, the set point will be reduced by 20°F, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

The filtration schedule is applied to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show purge schedules instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore the duration will be set to N/A on the screen and only the start time can be modified.

Spa Settings

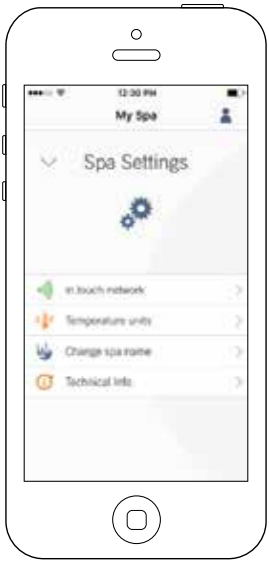


In the Settings page you can access the following:

- *in.touch network*
- *Temperature units*
- *Change spa name*
- *Technical info*

To select an item, tap on the arrow next to it. It will open the selected menu.

in.touch network





The in.touch network menu allows you to have access to information concerning the RF connection parameters between the Home Transmitter and the Spa Transmitter. This menu gives you acces to:

- Channel
- Signal strength
- Reset channel (resets channel to ... default)

To change channels, press on the Channel line.

Change channel



The Change channel page allows you to change the channel used by the two in.touch 2 modules.

In some cases, this can help you to have a stronger signal.

You can have access to this page by touching the following tabs: Spa settings (at the bottom right) - in.touch network - channel

Temperature units



This menu lets you change the units used to display temperature.

You can have access to this page by touching the following tabs: Spa settings (at the bottom right) - temperature units.

Name



This section allows you to edit the name of the spa.

You can have access to this page by touching the following tabs: Spa settings (at the bottom right) - Change spa name

Technical Info



This section shows information about the in.touch 2 software number and the revision numbers of the different components of your system.

You can have access to this page by touching the following tabs: Spa settings (at the bottom right) - Technical info

Settings



In the Settings page you can access the following:

- *Add a spa from local network*
- *Account*
- *Tutorial*
- **Legal*
- ***Patents*

To select an item, tap on the arrow next to it. It will open the selected menu.

*The button Legal will bring you to this web site : https://geckointouch.com/legal

**The button Patents will bring you to this web site: http://geckoportal.com/corpo/#patents

Add a spa



This page displays all the spas detected by your application.
To detect your spa, you need to connect your mobile device to the same network to which you connected your Home Transmitter.

Once you have done a connection with the spa its name will be saved on this page to allow you to connect to this spa from anywhere.
You can have access to this page by touching the following tabs: Settings (up right corner) - Add a spa
The RF signal strength (communication between the two in.touch 2 transmitters) is illustrated on the Select a spa page. There are 5 possibile states:

- Signal superior to 80%
- Signal between 80% and 51%
- Signal between 50% and 31%
- Signal below 30%
- The Spa Transmitter is not available

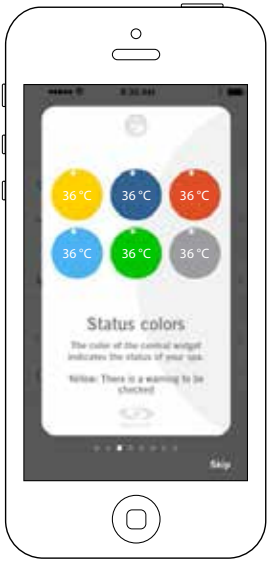
Account



This section gives you access to your account information.

You can have access to this page by touching the following tabs:
Settings (up right corner) - account

Tutorial





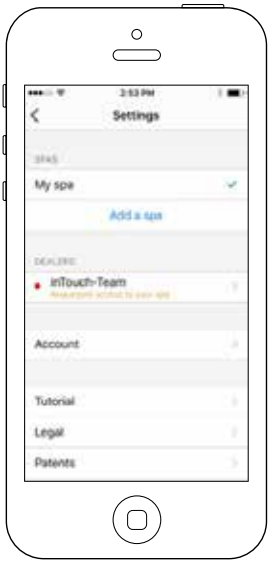
This section gives you a quick overview of your in.touch 2 application's functions.

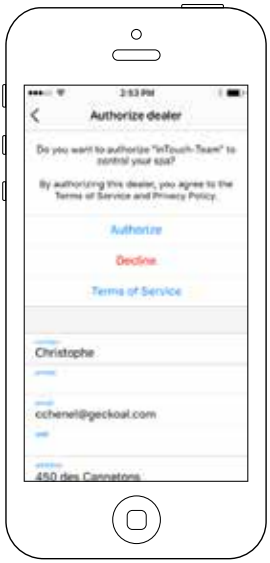
Technical Support invitation



When you receive an invitation for Technical Support, a red circle will be displayed next to the “setting” logo (top right corner).

Authorizing an invitation





All the invitations you may receive are under the dealers tab in the “settings” menu.

To choose an invitation, simply click on it. You will then see a window authorization to confirm with the dealer’s information.

You can also decline the invitation at any time if you want to.

Dealer page



Once you've had a dealer on your in.touch 2 app, you can, at all times, have access to his information.

If you don't want your dealer to have access to your spa anymore, simply swap to the left the "Allow access to your spa" button at bottom of the page.

Both in.touch 2 modules have a status LED to help diagnose problems, if any occur.

Troubleshooting

There are 2 different modules in the in.touch 2 kit: The Home Transmitter (EN Module) and the Spa Transmitter (CO Module). They communicate together via an RF link. The Home Transmitter is responsible for the Ethernet communications and the Spa Transmitter is responsible for the spa communications.

WIRING DIAGRAM - IN.YE-3



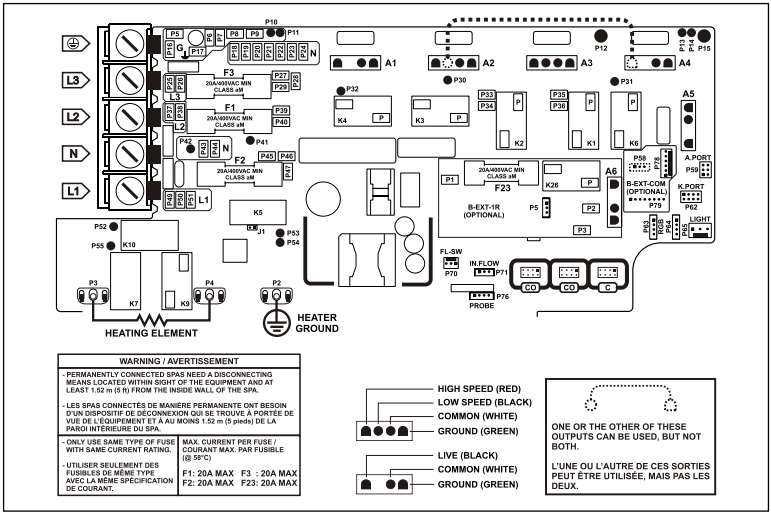
CONNECTIONS

CONNECTING HIGH VOLTAGE ACCESSORIES: ALL MODELS

Two options are available with Y Series spa packs for connecting high voltage accessories: 0.250″ quick-connect terminals, or AMP connectors conform to industry standards.

CONNECTING HIGH VOLTAGE ACCESSORIES: EUROPEAN MODEL IN.YE

For the connection to the 0.250 inch terminals, the high voltage accessories must be provided with female quick connect terminals, straight and non-insulated for all types of connections, including the ground. Only 230 V accessories may be connected to the corresponding terminals of the printed circuit of the in.ye. Refer to the following tables for correct connections. Note that all female terminals must be correctly and completely seated on the printed circuit terminals for proper current ratings.



CONNECTION FOR MODEL WITHOUT AMP CONNECTORS:

DIRECT OUTPUT 1 (A5)

Voltage	230 V
Green / ground	P16
Black / line	P45
White / common	P22

PUMP 1 (A3)

Voltage	230 V
Green / ground	P8
Black / low speed	K2-P
Red / high speed	K1-P
White / common	P20

PUMP 1 (A2)
(in.ye-5 CE)

Voltage	230 V
Green / ground	P7
Black / low speed	K6-P
Red / high speed	K3-P
White / common	P19

PUMP 3 (A4)
(in.ye-5-CE only)

Voltage	240 V
Green / ground	P9
Black / line	K6-P
White / common	P21

Pump 2 (A2)
(in.ye-3-CE)

Voltage	230 V
Green / ground	P7
Black / low speed	K2-P
White / common	P19

Circulation pump* (A1)

Voltage	240 V
Green / ground	P6
Black / line	K4-P
White / common	P18

Light (12 V dc, 1.3 A Max.)**

P65

LEDs RGB (in.lu.me only)

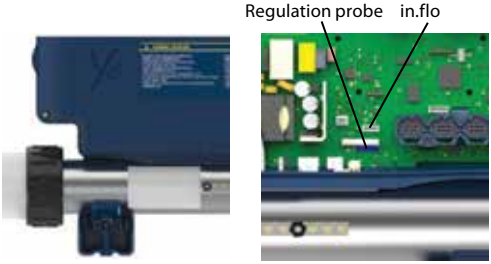
P63; P64

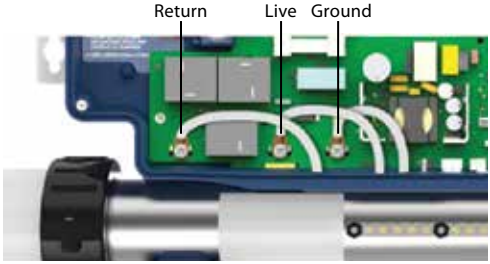
*** Ozonator and circulation pump can be combined on the same output via the optional splitter PP1.**
**** Max. available current for Light and LEDs RGB together.**

This table shows typical connections. OEMs may have a different connection scheme.

CONNECTIONS

HEAT.WAV WATER HEATER CONNECTIONS





in.ye systems come with a high performance heat.wav heater. With no pressure switch, it features in.flo integrated dry-fire protection.

The heat.wav heater is factory configured for 240 V / 4 kW, but it can be converted to a dedicated 120 V / 1 kW by simply adding a cable connection. (120 V conversion is available on North American in.ye-3 models only).

The heat.wav heater is also offered in 240 V / 5,5 kW or 240 V / 2 kW versions.

heat.wav specification summary:
- Supports 120 V or 240 V
- Incoloy® heater element
- Protected by external breaker (not fused)*

**Note : European models are 230-240 V only and are fuse protected.*

Part numbers:
9917-101959 (cable for conversion)
9920-101449 (5.5 kW heat.wav heater)

ELECTRICAL WIRING

ELECTRICAL WIRING: EUROPEAN MODEL IN.YE

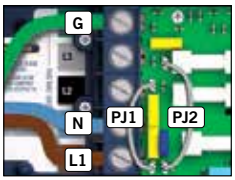
Refer to wiring diagram in the enclosure box lid for more information.

WARNING!

in.ye.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA.

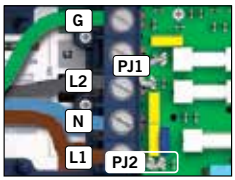
Correct wiring of the electrical service box, RCD, and pack terminal block is essential!

Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



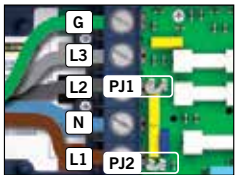
1-phase

Connect PJ1 between
P37 and P49.
Connect PJ2 between
P50 and P26.



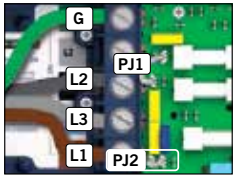
2-phase

Connect PJ1 between
P37 and P26.
Connect PJ2 between
P50 and P49.



3-phase with single neutral

Connect PJ1 between
P7 and P10.
Connect PJ2 between
P13 and P74.



3-phase Delta (no neutral)

Connect PJ1 between
P37 and P38.
Connect PJ2 between
P50 and P49.

Only for countries where Line-to-Line input voltage: 230V, 50Hz.

input voltage: 230V, 50Hz (Line-to-Neutral)

Insert each wire into the appropriate socket of the main entry terminal block according to the color code indicated on the sticker. Use a flat-head screwdriver to tighten the screws on the terminal (please refer to the sticker inside the casing to see the torque to apply).

After making sure wires are securely connected, push them back into the box and replace the cover. Do not over tighten cover screws (torque to 8 in. lb max {0.9 N.m}).

Connect the bonding conductor to the bonding lug on the front of the spa pack (a grounded electrode conductor should be used to connect the equipment grounding conductors). Bonding conductor must meet local electrical code.

WATER TREATMENT FUNDAMENTALS

The water in the tub will remain clean and clear only if its chemical components are kept in balance.

1. pH Value

The first and most important indicator is the pH value of the water.

pH is measured on a scale from 0 to 14, where 7 represents a neutral value. The ideal range is between 7.2 and 7.8 pH. Values outside this range may irritate the skin.

- Below this range the water is acidic, above it the water is alkaline.
- The pH of the human eye is around 7.5; water below 7.2 or above 7.8 may cause eye irritation.
- Most problems are caused by excessively high pH levels, which reduce the effectiveness of disinfectants.

High pH may lead to:

- Reduced efficiency of disinfectants
- Precipitation of solid particles
- Cloudy water
- Skin irritation

Low pH may lead to:

- Cloudy water
- Eye irritation

Rainfall or adding fresh water can change the pH level of the water.

2. Disinfection

Disinfectants are chemicals that remove or neutralize microorganisms present in the water (bacteria, algae, fungi, viruses).

Microorganisms are tiny, microscopic organisms invisible to the naked eye and continuously enter the water through rain, wind, and bathers' bodies. If they are not removed, they may spread from person to person through the water and cause diseases or infections. Organic material can also make the water opaque and cloudy.

Since these are warm-water baths, bromine or active oxygen are the most commonly used disinfectants.

3. Prevention of Algae Growth

In addition to disinfection, preventing algae formation is also essential. Algae may appear even with proper disinfection and filtration.

Algaecide treatments are only effective when the pH level is properly adjusted.

4. Water Hardness

Water hardness is determined by the amount of dissolved calcium and magnesium salts in the water. Hard water contains too much of these salts, which can lead to limescale formation over time. Limescale can cause serious damage to the tub walls, piping system, filter, heating system, and technical components.

Water hardness cannot be changed by adding chemicals, but limescale formation can be prevented with appropriate treatment.

5. Foaming

Foam is the accumulation of small and large bubbles and colloidal contaminants on the water surface. It is usually caused by a mixture of dirt, cosmetics, body lotions, and other substances originating from the human body and chemicals. Foaming compromises both the aesthetic appearance and the cleanliness of the water.

6. Water Testing Devices

Various types of water testers are used to measure chemical balance and disinfectant levels:

- Chemical (pH)
- Disinfectant (Br, O3)

Types of testing tools:

- Test kit with tablets and a graduated measuring container
- Litmus paper indicator strips

Chemicals must always be added to the filter housing.

Proper disinfection is considered balanced if chemical levels do not fall below the specified values for at least 48 hours.

Even with the most accurate treatment, water quality cannot be maintained longer than 2–3 months, and a complete water replacement is required. In this case, we recommend an extensive shock-like algaecide treatment:

Dissolve one tablespoon of algaecide in the tub water and run the pumps for 15 minutes. After switching off for 5 minutes, turn them on again for 1–2 minutes, then drain, clean, and rinse the tub.

WARNING!

The use of alcohol- or acetate-based cleaners for cleaning the tub is STRICTLY PROHIBITED.

For maintaining the condition of the tub, we recommend using Wellis chemicals or products with identical active ingredients. This will ensure a longer service life and allow you to enjoy crystal clear, healthy water.

The manufacturer accepts no liability for damage resulting from the use of inappropriate chemicals.

Chemical treatment of the water may only be performed by persons under 18 years of age with parental supervision.

Maintenance must only be carried out by qualified professionals.

MAINTENANCE OF THE TUB

Do not expose the tub to direct sunlight. Without a heat-resistant cover, direct sunlight may cause water discoloration.

When not in use, always cover the tub with the designated cover, regardless of whether it contains water or not.

Do not expose the tub to rain or snow. If possible, build a sheltered location for the tub.

The side coating must be protected from excessive UV exposure (e.g., with a protective cover). Cedar wood tubs must be regularly treated with UV-resistant products. Although the coating is covered with UV-resistant paint, due to the factors mentioned above, there is no guarantee against color fading. For cedar-clad tubs, annual wood treatment is recommended.

Recommended Maintenance Tasks

1. Regularly drain, clean, and refill the tub.
2. Professional service is recommended for refilling.
3. Clean the filter once a month.
4. Take a shower before entering the tub.

Maintenance Schedule

- Weekly and before each use: check water quality – see Water Treatment Basics
- Every 3 months:
- Replace filter cartridges
- Change the tub water – see Water Draining section
- Annually:
- Professional inspection of the tub is recommended

REMOVAL AND CLEANING OF FILTER CARTRIDGES

Cleaning mechanical impurities through continuous water circulation and chemical treatment is an essential requirement for proper water quality. Every tub is equipped with a motor designed for this purpose. The circulation pump moves the water through the filter(s). The filter provides protection against contaminants floating in the water.

It is recommended to clean the filter cartridges weekly.

It is recommended to soak the filter cartridges once a month in water mixed with chlorine and algaecide for 24 hours.

Filter cartridges must be replaced every 3 months.

SURFACE MAINTENANCE

Wipe the surface with a damp cloth. Always use a neutral cleaning agent and a soft cloth.

Do not scratch the acrylic surface with abrasive tools, blades, or knives, as this may cause damage.

Do not use nail polish remover, acetone, or paint remover to clean the surface, as these may cause serious damage.

Maintenance Guidelines for the Control Panel

- Do not damage the control panel with any hard objects.
- If possible, avoid exposing the control panel to direct sunlight.
- When the tub is not in use, always cover it with the protective cover.

WINTERIZING

Be sure to properly maintain your tub if it will not be used during the winter. If you do not intend to use the tub during the winter months and wish to take it out of service, contact one of our qualified professionals to winterize your tub at a pre-arranged time.

Winterizing Includes:

- Draining the used water
- Cleaning the interior surface of the tub
- Draining the piping and jet system
- Draining and disconnecting the motor connections
- Transport and handover if required

If the tub is not properly winterized, water may remain in the system and can easily freeze during the winter months. This can cause serious, irreparable damage to the pipes and the motor, which will void the warranty.

MAINTENANCE OF A TUB OUT OF SERVICE

When the tub is not in use, place the thermal cover on it and secure it with the straps. Do not neglect this step.

If the tub remains filled with water but is not used, lift the cover at least once a week to ensure proper ventilation. The thermal cover is multifunctional:

- It reduces the time required to heat the water to operating temperature
- It lowers the energy needed to maintain water temperature and operating costs
- It prevents leaves, rain, snow, and other contaminants from entering the water
- Securing the cover with straps prevents children from using the tub without parental supervision

CLEANING THE FILTER CARTRIDGES – WEEKLY PROCEDURE

ATTENTION! Filter cartridges must be replaced every 3 months!

Using the tub without a filter cartridge is STRICTLY PROHIBITED.

1. Remove the filter cover.
2. Take out the filter cartridge.
3. Rinse the contaminants from the filter with water.
4. Soak the cartridge in lukewarm water mixed with chlorine and algaecide for 1–2 hours, then rinse thoroughly.

Do not use alkaline cleaners or high-pressure washers to clean the filter!





DRAINING THE WATER

The water can be drained through the outlet in accordance with environmental regulations.

1. Remove the short side panel near the filter housing.
2. Locate the drain and remove the cap.
3. Screw on the metric adapter supplied with the tub.
4. Turn the larger receiving part counterclockwise as far as possible.
5. Pull the receiving part toward you – the water will begin to flow out of the tub.
6. After the tub has drained, repeat the above steps in



reverse order.

CONDENSATION DRAINAGE

For indoor use, condensate water from the heat pump must be drained into a suitable outlet, such as a floor drain or collection container.
The design and installation of this drainage system is the responsibility of the customer.



FREQUENTLY ASKED QUESTIONS

QUESTIONS REGARDING CLEANING, WATER TREATMENT, AND MAINTENANCE

What should I do if the tub filter becomes dirty?

Clean the filter weekly or every two weeks with a water jet. Depending on usage, regularly soak the filter in water mixed with algaecide for 1–2 hours, then rinse thoroughly.

Should I shower before using the tub?

Yes, always take a thorough shower before entering the tub.

Does the side paneling of the tub require treatment?

The side paneling is made of weather-resistant plastic and does not require any treatment or maintenance (unless it is cedar cladding).

How often should the water be changed if my tub is equipped with an in.clear water maintenance system? Does it maintain water quality?

Thanks to the high-tech automated in.clear bromine system, the water only needs to be changed approximately every 6 months, or even less frequently if the tub is not used daily. It may be necessary to add water and TruBlu (sodium bromide) if the water level decreases due to splashing or evaporation.

Optional UV-C antibacterial units, disinfectants, and a sterilizing system are available for our tubs. These ensure fresh and clean water with 30–50% less chemical use.

What type of water treatment is recommended for frequent social use?

For intensive use, we recommend the optional sand filter system, which replaces the standard antibacterial filter. In case of heavy usage, we also recommend an automatic monitoring, regulating, and chemical dosing system.

I cannot stop heavy foaming. We shower without soap before using the tub and I use the required chemicals. Did I use too little?

According to the product user manual, add 1–2 cups of anti-foam agent to the tub water. Wait until the chemical is thoroughly mixed into the water. Repeat if necessary.

If the problem persists, check and readjust the pH level. If foaming still remains, disinfect the tub with a free active chlorine algaecide, then drain, clean, rinse, and refill the tub.

PREPARING THE INSTALLATION SITE

What are the most important aspects when choosing the installation location?

The installation site must be prepared by a professional in accordance with the installation manual. Equipment may only be installed at suitable locations.

Ensure that the power cable is long enough, that adequate power supply is available, a 30 mA protective relay is installed, and for certain products, a floor-level drain is provided.

Is a floor drain required for an indoor tub?

Yes, installing a floor drain is mandatory.

What is the maximum temperature that will not damage the tub?

For the DUO model, the warm-water side can be set between 26 and 40°C.

The cold-water side can be set between 2 and 40°C.

What is the recommended optimal water temperature?

32–38°C. If children use the tub, a lower temperature is recommended. Always check the temperature before a child enters the tub and make sure it is suitable for them.

For the cold plunge tub, 10–15°C is recommended for safe use. In extreme cases, the temperature can be set as low as 2°C.

For the health of children, keep them away from cold water.

Can the system freeze? Is there a sensor that starts emergency heating in case of frost?

If the tub is not used in winter, it must be winterized. After draining, the system will be thawed as necessary, meaning that trapped water in the motor and pipes will be removed. For details and pricing, please contact our customer service.

If the tub remains in use during winter, the motors will start automatically when there is a risk of freezing and heat the water to 8°C.

Can the system be programmed to start heating at a specific time?

It is not possible to set a date and time for automatic heating. For energy-saving reasons, heating the water to a higher temperature for occasional weekly use is not recommended.

The water jets switch off automatically after 15 minutes. Can I restart them immediately, or should I wait?

The hydromassage system switches off automatically every 15 minutes for safety reasons to prevent potential muscle strain. It can be restarted immediately and as many times as desired without interruption.

When the tub is used only a few times a week, especially in winter, what is the most energy-efficient setting?

If you use the tub only 2–3 times per week, the most efficient method is to keep the water at operating temperature (around 38°C). Thanks to the excellent insulation and thermal cover, this requires less energy than allowing the water to cool down and reheating it before each use.

The heating system switches on automatically if the water temperature drops by more than 0.5°C.

In summer, the Economy mode is recommended due to higher ambient temperatures.

Use Sleep mode only if the tub will not be used for a longer period (3–4 weeks).

After a power outage, will the tub return to the previous settings?

When the tub is connected to power, it switches to priming mode. Press the "Temperature" button to switch to Standard mode, and the water temperature will be displayed.

After a power outage, the tub will return to the last used settings.

Can the filtration cycle only be programmed for 1–8 hour periods? What is ideal?

The filtration cycle can be set between 1 and 8 hours, or to continuous operation. The ideal setting depends on usage frequency and water load.

Can the operating equipment be placed in a separate location accessible only to staff?

The control equipment can be installed at a distance corresponding to a maximum 5-meter cable length.

What should I use to clean the tub?

Use only non-foaming, non-acidic cleaning agents available from specialized stores.

INFORMATION FOR COMMERCIAL USE

For water intended for human use and coming into contact with the product, the temperature must not exceed 40°C from a public health perspective.

Area of application: bathing water supply (up to 40°C).

After installation and before first use, it is recommended to thoroughly rinse and disinfect the product.

The cold plunge tub should be filled directly from an appropriate tap or through a dedicated hose. If a hose is used, it is recommended for public health reasons to store it drained between two fillings and to rinse it with a disinfectant solution followed by clean water before each filling.

The filling hose should not be used for draining the tub.

During operation of the tub, care should be taken to prevent contamination from entering the water. In outdoor use, it is recommended to keep the tub covered when not in operation.

For the treatment of cold plunge tub water and for cleaning/disinfection of the product, only water treatment and disinfectant products authorized for bathing water use (PT 2 product group) and applied in accordance with their authorization should be used.

The cold plunge tub should only be used after showering with soap.

It is recommended to ensure full circulation and filtration of the entire water volume – while maintaining the prescribed disinfectant level – for at least 30 minutes before the first daily use and after the last use, and on non-use days at least once for 2 hours.

For models equipped with replaceable filter cartridges, it is recommended to use two sets of cartridges alternately on a daily basis.

The removed cartridge must be cleaned according to the instructions; during cleaning, it is recommended to include at least 30 minutes of soaking in a disinfectant solution.

From a public health perspective, filter cartridges should not be reused more than 10 times, even if the cleaning conditions prescribed by the distributor are observed.

Monitoring of relevant operational data is recommended for private users as well in order to ensure hygienic safety.