



USER MANUAL FOR SPA

SWIMLIFE

/ CONTROL SYSTEMS / KEYPADS / ACCESSORIES /

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INTRODUCTION

Congratulations on your new product!

Outside work and family the enjoyment of quality life and calm moments plays an important role in the life of a 21st century man. An evening bath in the spa or tub alone or in company can give you the opportunity to lose track of time and your body and soul can relax. From the world of rationality we get into the world of senses where the cossetting atmosphere of the water provides the perfect conditions for relaxation.

Our design engineers utilised the experiences of the ancient Eastern massage culture and the modern findings of Western hydrotherapy to create spas providing the perfect massage experience.

Develop a peaceful space for relaxation with your product in your home and join the group of the few who seek a positive impact on their environment by establishing internal harmony.

Dive into your spa and enjoy the gently flowing water!

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SAFETY INSTRUCTIONS

FOR YOUR SAFETY PLEASE ALWAYS PERFORM THE FOLLOWING PRECAUTIONS. IF YOU DO NOT FOLLOW THE WARNINGS AND INSTRUCTIONS, ITEMS MAY GET DAMAGED, YOU MAY GET INJURED, OR YOU MAY SUFFER FATAL INJURY. IMPROPER INSTALLATION AND OPERATION INVALIDATES THE WARRANTY.

Initial safety warnings

The spa must be powered through a residual current device (RCD) with a current release not exceeding 30mA.

The devices and parts which contain active parts – except those which are powered from protective extralow voltage not exceeding 12V – must be inaccessible from the spa.

ABOUT THE ENVIROMENTALLY SAFE WATER DRAINING

The spa must be powered through a residual current device (RCD) with a current release not exceeding 30mA.

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About the enviromentally safe water draining

The water temperature in the spa should never exceed 40°C (104°F). The water temperature is considered safe for a healthy adult at 36 to 38°C. Lower water temperature is recommended for younger children or when the spa is used for more than 10 minutes.

Spa heat can cause hyperthermia!

Symptoms: drowsiness, heaviness

Children under 14 years of age can only use and operate the products mounted with hydromassage system under adult supervision.

People with heart disease, low or high blood pressure, circulatory disorders, diabetes, and excessive weight should consult their physician prior to using the spa.

Consumption of alcohol or drugs while using the spa greatly increases the chance of fatal overheating.

A person taking medications should consult a doctor before using the spa as some medicines may cause drowsiness while others may affect the heart rate, blood pressure, and circulation.

Persons who suffer from infectious diseases should not use the spa.

Because high water temperature poses a high risk to the fetus and may cause serious fetal damage we advise that (potentially) pregnant women do not use the spa at a water temperature higher than 38°C. Wet surfaces can be slippery. Note and warn your child about this when entering and leaving the spa. To avoid injury carefully get into and out of the spa.

Do not use the spa if the suction cover is damaged or missing.

Never place any electric device within a 2-meter radius of the spa - it can cause electrical shock. Electric devices fallen into water may cause death, electric shock, or serious personal injuries.

It is prohibited to remove the panels while using the spa.

Water treatment should be carried out with caution. Improperly chemically treated* water may cause skin irritation.

When the spa is not in use, cover the spa with the cover to prevent ultraviolet radiation causing damage to the product.

Do not allow your child to climb on the thermo cover when it is on the water-filled spa.

Do not remove any suction sealing. Do not operate the spa if the suction sealing is broken or missing.



WARNING! The metallic parts of the pool may become hot when exposed to sunlight and can cause injury!

Keep your clothes and jewellery away from rotating jets and moving parts.

Test the residual current device before use.

Disconnect the spa from the power supply before servicing its electrical parts. (This operation can only be performed by qualified professionals).

It is strictly prohibited to use the spa in a not completely assembled state (e.g. detached side panel)

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

Maintenance can only be performed by trained professionals.

The user should check the electrical wiring every 3 months. It is required to perform a check by a professional every 3 years.

Mains fuses / circuit breakers may be activated because of power outages.

Installation and wiring of the spa, replacement of power cord, and any repairs must be performed by qualified professionals.

It is required to build in an isolating device to the fixed wiring.

Plug'n'play safety warnings

Beyond the previous warnings, please also pay attention to the undermentioned ones.

ATTENTION! The electrical receptacle must be located at least 2.5 meters from the spa so that bathers in a sitting position cannot reach it from the water. The plug can only be connected to a receptacle* equipped with 2.5mm 2 diameter cables

ATTENTION! RISK OF ELECTRIC SHOCK. The connector with residual current device must be inspected before every use.

ATTENTION! Only place the RCD plug in a receptacle equipped with RCD.

ATTENTION! Before you insert the plug into the socket ensure that the current of the socket and the fixed wiring is appropriate for the properties of the spa.

The spa must be equipped with an isolation transformer or powered through a residual current device with a release current not exceeding 30mA.

THIS PRODUCT IS EQUIPPED WITH A GROUND FAULT CIRCUIT BREAKER (GFCI) IN THE CONNECTOR. GFCI MUST BE TESTED BEFORE EACH USE.

If the power cable is damaged, it must immediately be replaced by the manufacturer or a service professional in order to minimize danger.

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

Ensure that the receptacle is properly located.

Parts of the equipment cannot be placed above the spa during usage.

Parts under electrical power – except those operating with voltage not exceeding 12V - must be inaccessible for persons in the spa. The grounded device must be connected to a fixed socket with fixed wiring. Electrical parts – except remote controllers – must be positioned so as not to fall into the spa.

The electrical installation must meet the local standard requirements.

SAFETY INSTRUCTIONS

To avoid electric shock do not use the spa in rain.

Water attracts children. Always place and lock the cover on the spa after each usage.

Do not bury cables into the ground! Place the cables so that lawnmowers, trimmers, and similar devices will not reach them.

Do not force push the control panel up nor down and do not place heavy objects on it after installation.

Keep pets away from the spa to avoid damage.

Do not use the device if there is the slightest chance of water in the spa being frozen.

Only use accessories approved by us. The use of accessories not approved by us may void the warranty.

Choking hazard. Particular attention need to be paid to children during usage. To avoid accidents only allow children to use this spa under adult supervision.

Never operate electrical devices in the spa or with wet body. Do not place electrical devices (lamp, radio, television) within a 1.5m radius of the spa.

Do not expose the spa to direct sunlight.

Only connect the spa to an earthed socket.

Risk of electric shock. Install the unit at least 1.5m (5 feet) from any metal surfaces. You can install the unit 1.5m from metal surfaces only if every metal surface is permanently connected to a solid copper conductor

with a diameter of at least 6mm, which is connected to the cable connector of a junction box reserved for that purpose.

To avoid injury never pour water warmer than 40°C directly into the spa.

Effects of overheating: you cannot assess emergency situations, do not feel the temperature, do not feel the need to get out of the spa, cannot get out of the spa; risk of fetal damage in pregnant women, loss of consciousness, suffocation.

Do not use the spa alone.

Do not use the spa immediately after strenuous sport.

To prevent damage to the pump the spa can only be operated if it has been filled with water.

If you feel uncomfortably or sleepy, leave the spa immediately.

Never add water to the chemicals. Always be cautious when adding chemicals to the spa water to avoid inhaling vapors and possible effects of inhaling undiluted chemicals and splatters.

Only place the spa on a surface that can support its weight.

INSPECT THE UNIT BEFORE USE. CONTACT THE SERVICE PROVIDER STATED IN THIS MANUAL IF ANY OF THE PARTS WERE DAMAGED OR MISSING UPON PURCHASE. ENSURE THAT THE PARTS OF THE UNIT ARE THOSE WHICH YOU INTENDED TO BUY.

IN.CLEAR SAFETY WARNINGS

Beyond the previous warnings, please also pay attention to the undermentioned ones

Read this manual carefully, always follow its instructions, and retain it. This manual contains important information about the installation, operation, and safety recommendations of the in.clear unit. Safe installation and usage is your responsibility.

The in.clear unit must be connected to a network protected by a ground fault circuit interrupter (GFCI) of the maximal nominal fault current value of 30mA.

Ensure that the entire power supply is turned off before the in.clear unit is installed.

If the power cord is damaged, it must be replaced by the manufacturer, an authorized service provider, or qualified professionals to avoid emergencies.

Always use a proper electric cable for supply of current to the in.clear unit.

When installing the in.clear Automatic Bromine Generator local and international electrical regulations must be complied with.

Clean or replace the filter cartridge at regular intervals, otherwise part of the bromine produced by the in.clear unit will be consumed by oxidation of contamination accumulated in the filter.

DO NOT pour any other chemicals into the spa than the recommended sodium bromide. DO NOT use any ozone or UV disinfectant.

Operating the in.clear unit on lower sodium bromide level shortens the life of the cells. Keeping sodium bromide and bromine levels above the recommended level may lead to corrosion of the spa components and cause damage to the spa accessories.

Do not open the in.clear unit; it does not contain serviceable parts

Product disposal: the in.clear unit must be disposed of in accordance with local disposal regulations in force.

This device is not intended for use by persons (nor children) with limited physical, sensory, or mental capabilities except if these persons have received appropriate instruction on use of the device from the person responsible for their safety.

The in.clear unit cannot be applied to in-ground sunken spas as it may affect materials used in the construction.

The shut-off device must have fixed wiring in accordance with the cabling regulations.

Showering is compulsory before each spa use.

The user is responsible for regular monitoring of the spa water to ensure that enough bromine is available to reach the appropriate cleaning level. Intensive spa use may require higher bromine intake to always maintain appropriate bromine level.

Always check the expiry date of the test kit, because after this date the test results may be inaccurate.

For proper disinfection spas must periodically be completely drained. The advised time period between full drains given in days is calculated by dividing the capacity of the spa in litres by the tenfold of the average daily users.

The in.clear unit is applicable for indoor spas, but NOT for swimming pools.

Distinguishing Between P&P and Non P&P Installation:

It's important to differentiate between Plug & Play (P&P) and Non Plug & Play (Non P&P) installation methods as they impact the setup of the spa, particularly regarding the securing of the spa and the placement of wires.

Non P&P Installation:

In cases where the spa is not set up as a Plug & Play system, it is necessary to secure the spa to prevent the power cord from mechanical damage. This is particularly crucial if the pool is not sunk into any level.

The movement of the pool constitutes a reinstall in every case, please ensure that the pool cannot move.

P&P Installation:

Place the spa in range of a socket, plug in the power cord. Check if the spa is powered. When placing the spa relative to the socket, please be mindful about tripping hazard.

BASIC FUNCTIONS

Keypads: The keypads make it possible to control and set up the spa. Available basic functions: pump(s), light and temperature control. (For more information see the details later)

Valves

Diverter: Some spas are equipped with water diverter(s) that allows you to direct the waterflow to various sections of the spa. The valve has three basic positions. By turning the lever all the way to the left position will divert the water section A of the spa. By turning the lever all the way to the right will shut off section A and divert the water to section B and by moving the lever to the middle between A & B will divert the water to both A & B sections

Waterfall diverter: Some spas are equipped with a waterfall diverter which will turn the waterfalls/fountains either on or off

Air regulators: You can use it by turning the lever counter-clockwise, will open the Air Regulator to allow air to mix with the water to create more pressure from the jets. Turning the lever to the left will close the valve not allowing air to mix with the water for the jets. These air regulators should remain closed when the spa is not in use to save energy.

Speakers (Optional): If your spa is equipped with an audio system, you can connect via Bluetooth and help your relaxing with your favourite music. (MyMusic pin:2288)

Filter house: Part of the recirculating system, it holds the paper filter.

Fountain: Some spas are equipped with fountains or waterfalls. If you open the waterfall diverter, the water will flow through the fountains or waterfalls.

Jets: There are 3 sizes of jets; the 5" and 3" jets have two types: directional and rotational. The 2" jets are only directional. To open the jet face is turned clockwise. To lessen the pressure or to close, the jet face is turned counter-clockwise

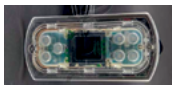
Aroma therapy: You can stimulate your senses with different aromas. You can get aroma into the water if you push the button on the top of the tank. you can block the button if you turn it.

Suction: The pumps suck the water through this element. Never block it, and keep your body and hair away from these units.

Head rests



Keypads



Diverter, Air regulator, On/off valve



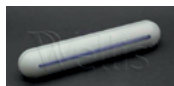
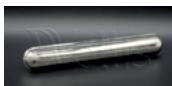
Speakers



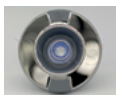
Filter house



Fountain



Jet (5"-direct, rotational; 3"-direct, rotational; 2"-direct)



Suction



Instructions for Reading the Code on the Data Card:

Locate the data card on your spa, usually situated beneath the side panel, typically on the same side as the control panel. Utilize the table provided on the following page to decipher the internal code to determine the spa specification.

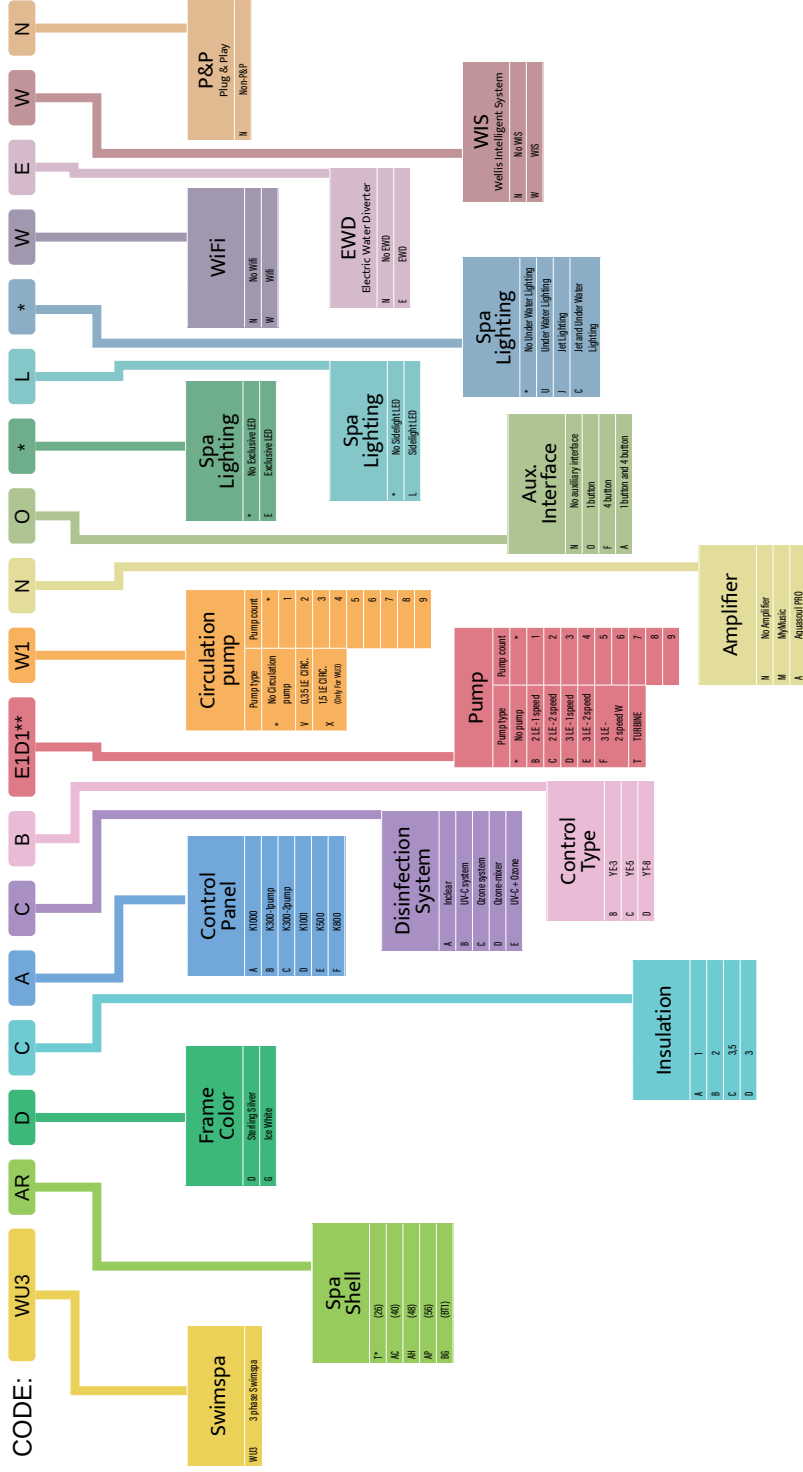
Example of data card:

MANUFACTURER / HERSTELLER/ VÝROBCA / FABRICANT / GYÁRTÓ	Wellis®
INTERNAL ORD. NR. / BELSŐ MEGR.SZ.	*113384 3/1
MODEL	Olympus Life
TYPE	WU3T*DCADDE1D1B2X1AAE*JWNNN
SERIAL NUMBER / SERIENNUMMER VÝROBNÉ ČÍSLO / NUMERO DE SERIE / GYÁRTÁSI SZÁM	WU00038-64
DATE OF PRODUCTION / HERSTELLUNGSDATUM / GYÁRTÁS DÁTUMA	240619
MAX. POWER/LEISTUNG/TELJESÍTMÉNY	11kW
CONTROL PANEL/BEDIENUNGSTASTE/KEZELŐ	IN.K1000
Wellis Magyarország Zrt. Hungary-1118, Budapest, Budaörsi út 31/c 	400V 3N~

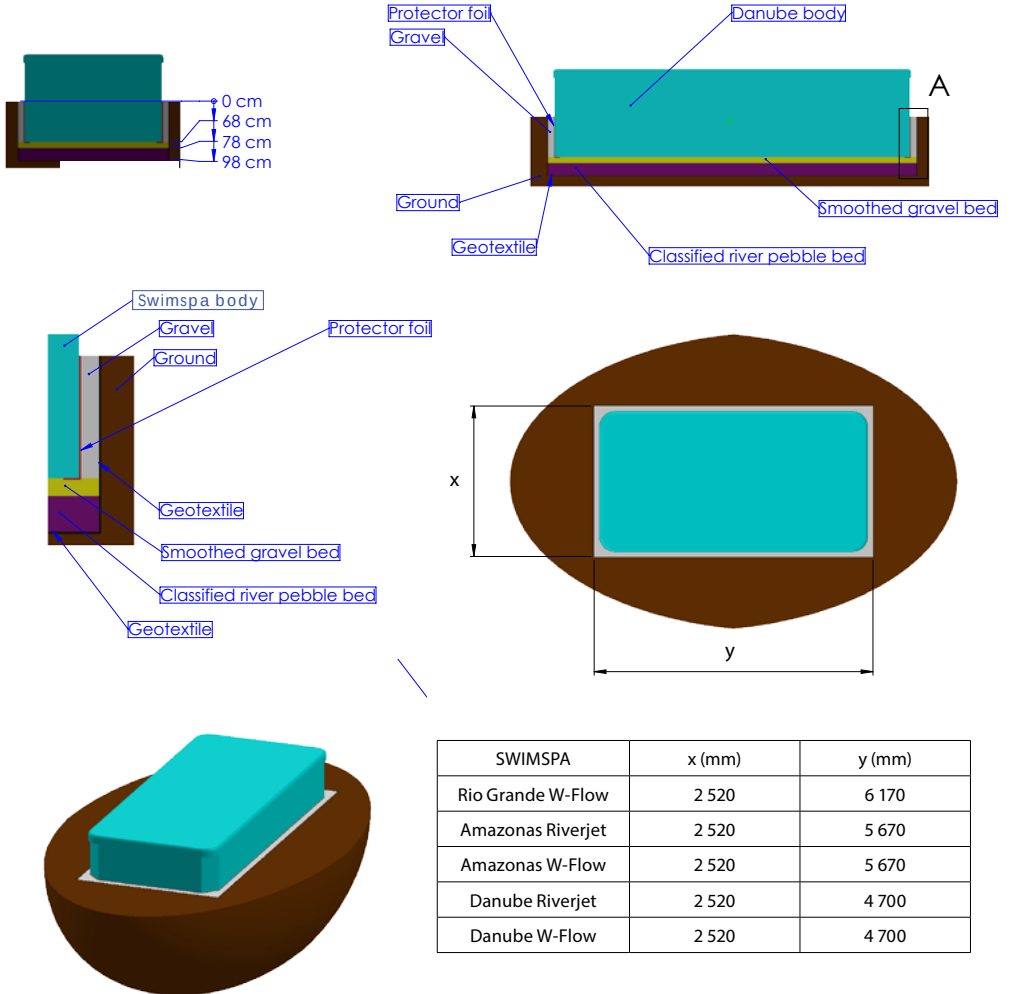
Every Hot Tub has a unique code that is used for identification. On the next page you will see a specific example for such a code. Each element of the code is explained in the table connected to it. Each element describes a certain category and tells you what exact specification the Hot Tub has from that category.

The code describes characteristics such as how many phases the Hot Tub needs, the type of Hot Tub shell, frame color, type of disinfection system, number and type of pumps or lighting type etc.

WM1ARDCACBE1D1**W1NO*L*WEWN



SEMI IN GROUND INSTALLATION



RIO GRANDE W-FLOW



Product family: SwimLife

Sheet name: Rio_Grande_W-Flow_Life_EU_ENG File name: FJ_WU00025_HUN_ENG Rio Grande W-flow Life 2019 úszómérendék	 Projection	 Well's Well's is a registered trademark of Well's
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Spa section electrical need: Min.El.nds.: 230V - 1x25A - 50Hz / Opt.El.needs: 400V - 3x16A - 50Hz

Swim section electrical need: 400V - 3x16A - 50Hz

Dimension SPA	2 350x6000x1470 mm
Spa section control box: GECKO YE-3 + K1000	

Weight of SPA:	1300 kg	Swim section control box:	GECKO YT-8 + K1000
----------------	---------	---------------------------	--------------------

Rim height:	150 mm
Created:	2024-08-04
Drawing:	franko csaba
Approved by:	Franko Csaba
Fg. No:	P-0000099
Number:	WU00025
Material:	M 4-50
Size:	A3
Scale:	max 4 / 6

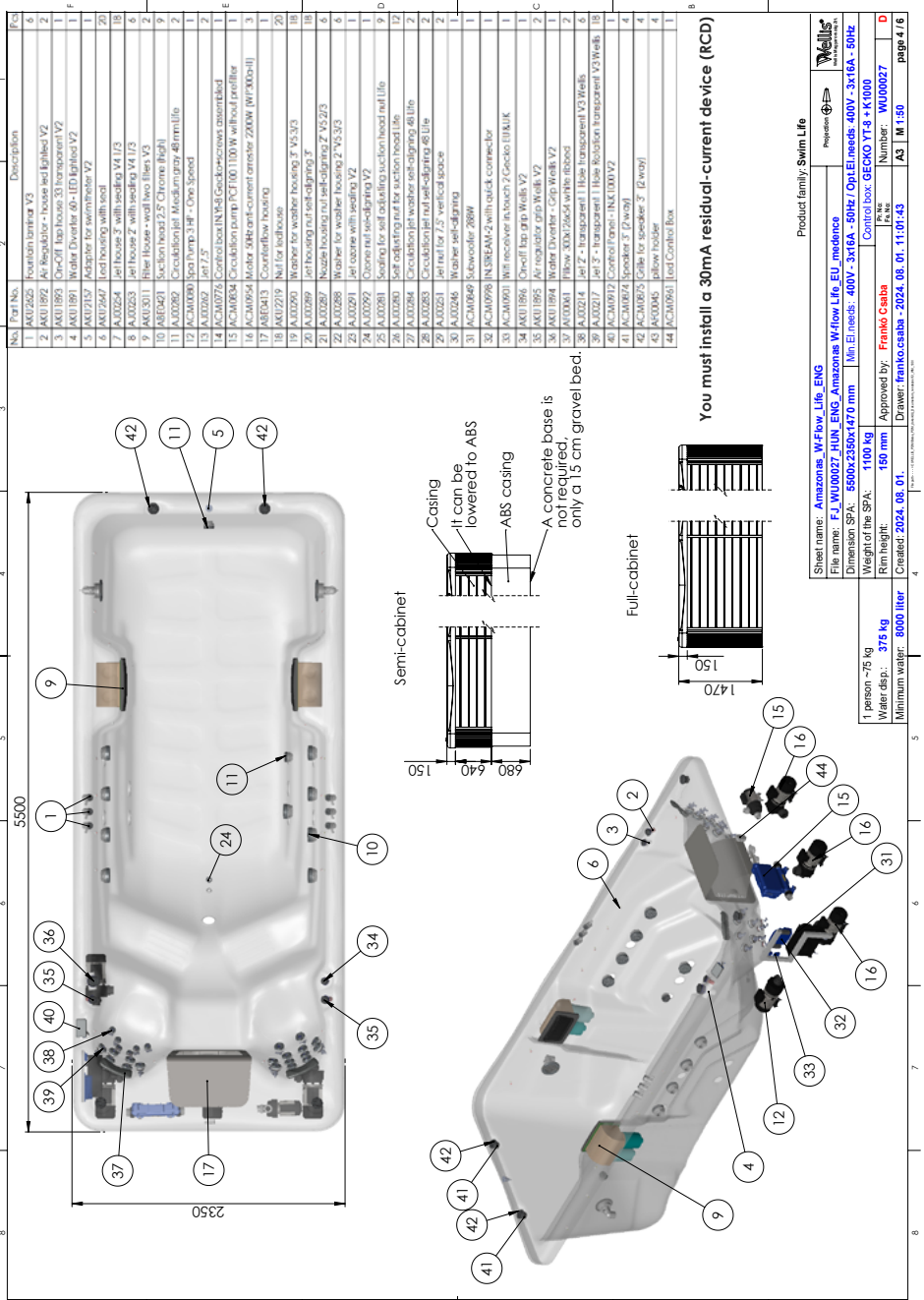
4	Created: 2024.08.01.	Drawel, Ilianko.Sada - 2024.08.01. 10:39:47	A3	М 1:30	page 4 / 6
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AMAZONAS RIVERJET

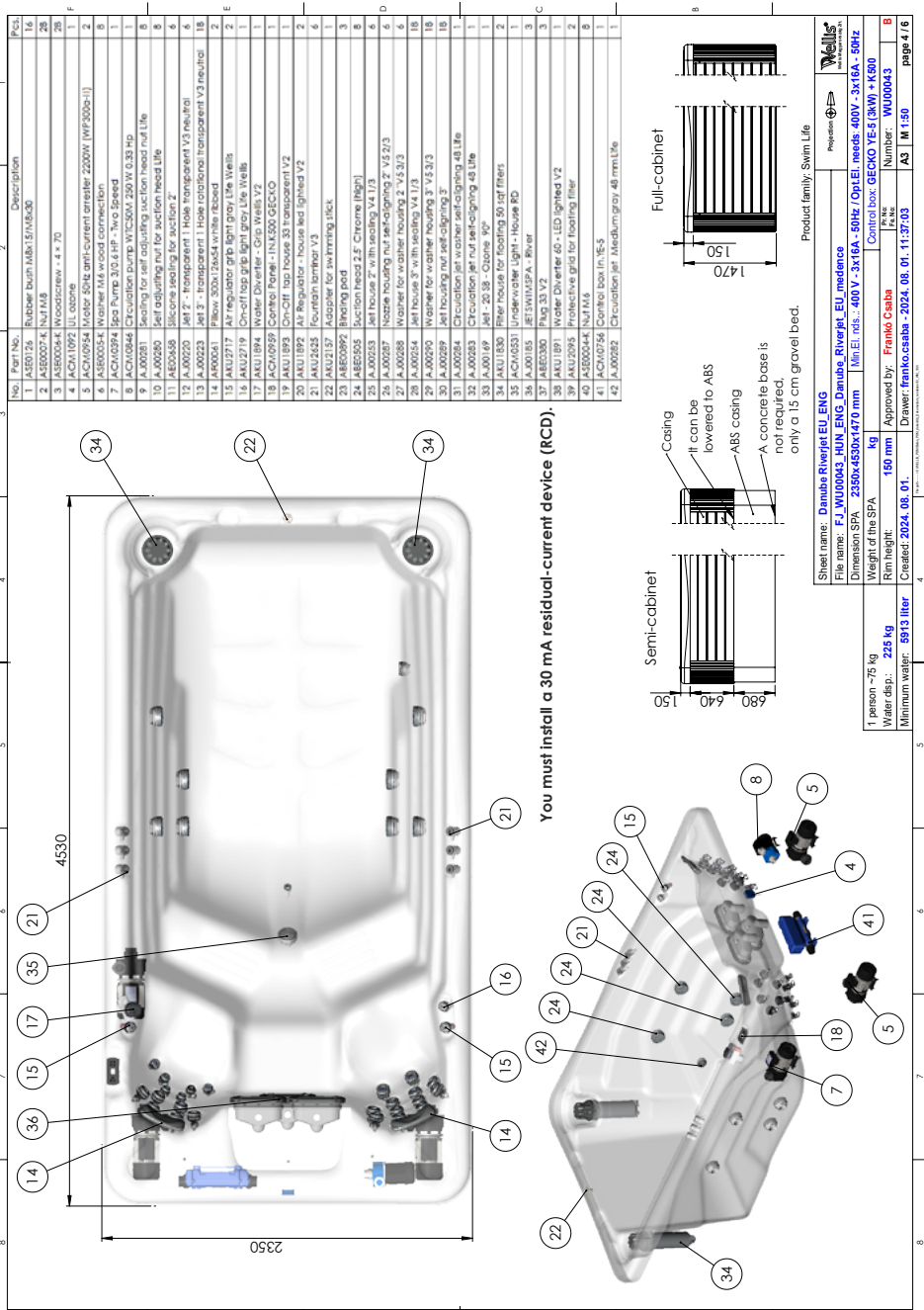


CONNECTION DIAGRAM

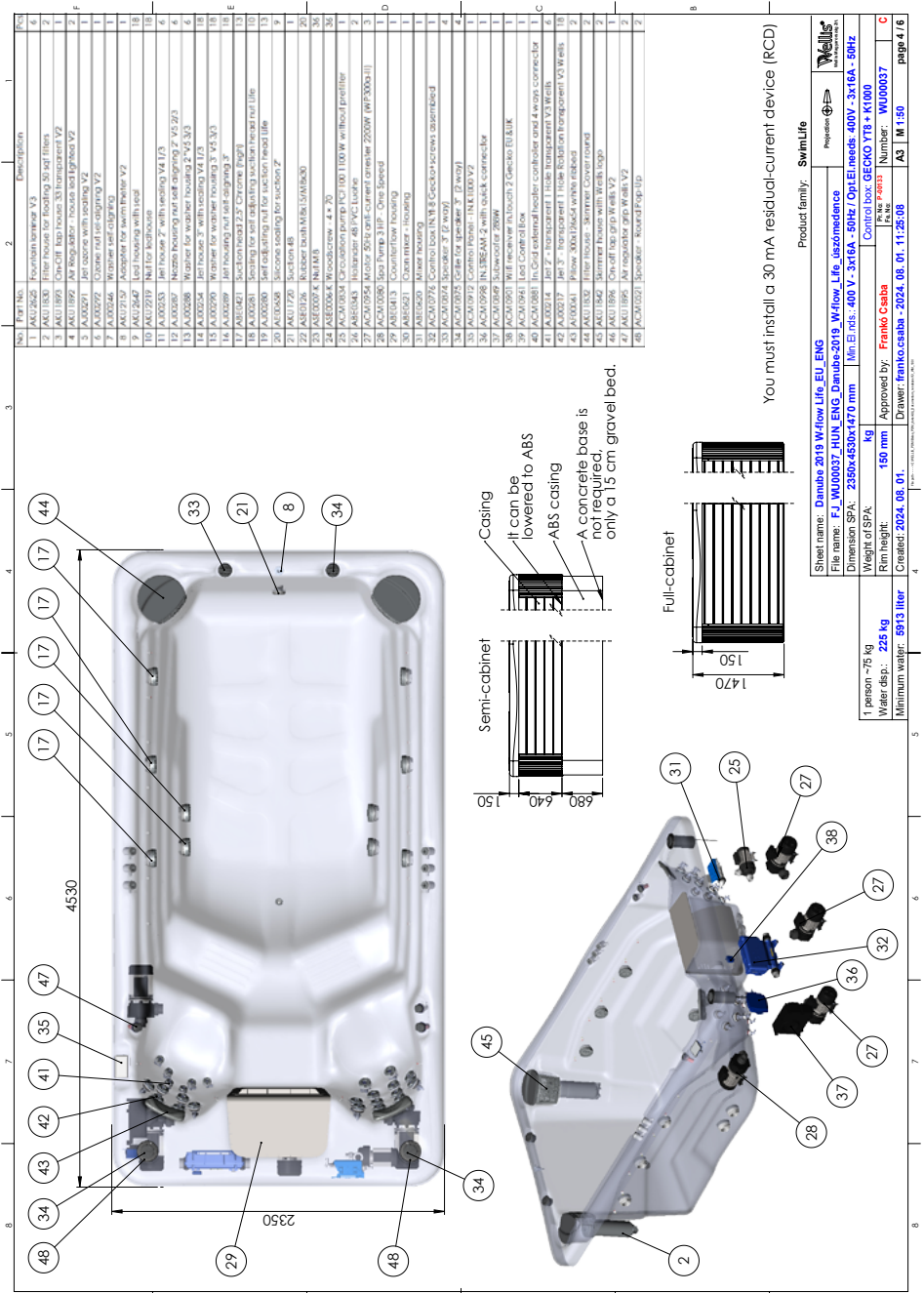
AMAZONAS W-FLOW



DANUBE RIVERJET

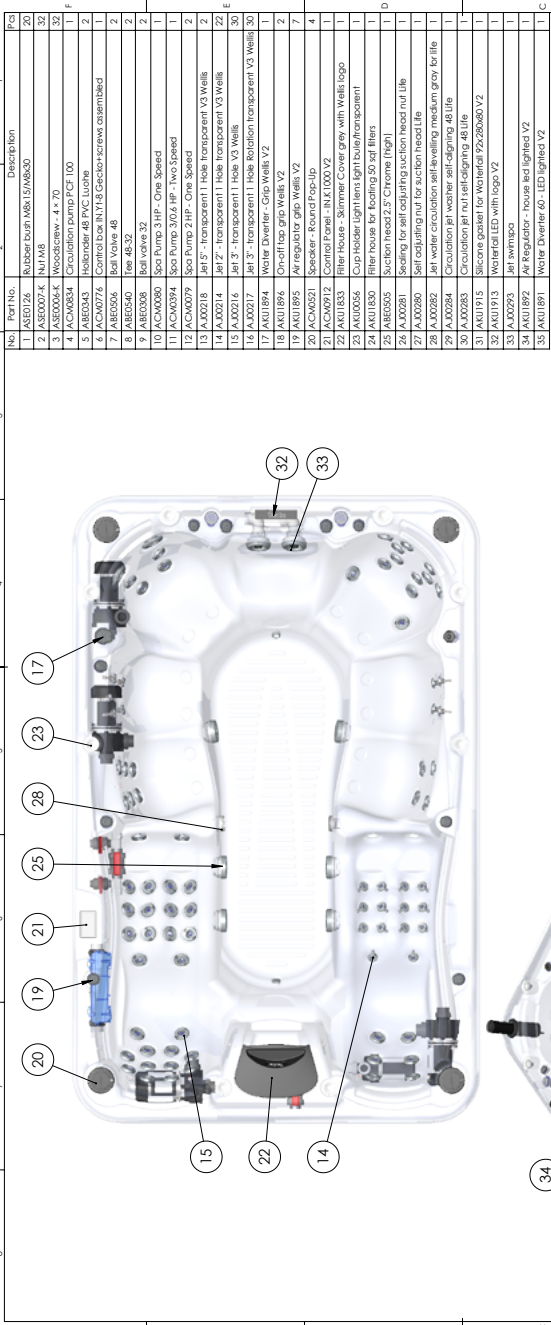


DANUBE W-FLOW



CONNECTION DIAGRAM

OLYMPUS



You must install a 30 mA residual-current device (RCD)



Product family: Peak Life	
Sheet name: Olympus Life, ENG	File name: E1_MU00038_HUIN_ENG Olympus Life, mediana
Dimension SPA: 3540x2300x580 mm	Min. EI, needs: 400V - 3x16A - 50Hz OLY_EI, needs: 400V - 3x16A - 50Hz
Weight of the SPA: 900 kg	Control box: GECKO-IT-3 K1000
Rim height: 110 mm	Approved by: Rest Taniels
Created: 2024. 07. 09.	Drawer: rest.taniels - 2024. 07. 08. 12:49:42
1 person - 75 kg	Number: MU00038
Water disp.: 675 kg	AS1 IM 1:50
Minimum water: 2331 liter	page 3 / 4

INITIAL INSTALLATION

Electrical preparations:

A clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5 feet (1.52 m) away, adjacent to, and within sight of, the unit.

Before installation the hot tub, the electrical system has to be prepared, as detailed in the below table.

Applicable cable: Copper 90°C (194°F) THHN/THWN	Ampere rating of the supply circuit overcurrent protective	AWG rating of the supply conductor
Rio Grande W-Flow	3x16A (massage) 3x16A (swimspa)	6
Amazonas Riverjet	3x16A	6
Amazonas W-Flow	3x16A	6
Danube Riverjet	3x16A	6
Danube W-Flow	3x16A	6
Olympus	3x16A	6

INITIAL INSTALLATION

SITE PREPARATION

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

1. INDOOR/BASEMENT INSTALLATION

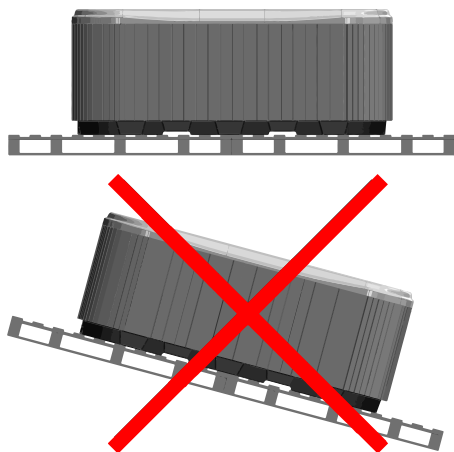
If you place your hot tub indoors, be aware of some special requirements:

Water may accumulate around the hot tub, so the flooring material must have a proper runoff to avoid accumulation of water. When building a new room for the hot tub, 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 hot tub 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 hot tub. We advise using a reinforced concrete foundation at least 10-15cm thick.

Do not shim the spa, it may cause not repairable damages. The base to be even and horizontal.



Ensure that your deck or foundation will support your hot tub. 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 hot tub, its contents and occupants please refer to the hot tub 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 hot tub outdoors, we recommend a reinforced horizontal concrete pad at least 10-15cm thick.

Install floor drains around your hot tub 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 hot tub 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 hot tub to direct sunlight (not even empty) without proper coverage. The insulated hot tub 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 hot tub and the hot tub equipment.

Acrylic rapidly absorbs heat from sun rays, thus reaches a very high surface temperature which may damage the hot tub.

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

3. IN-GROUND / SUNKEN HOT TUB

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

The inspection pit's bottom must be under the bearing point of the hot tub 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 hot tub only the portion below the hot tub'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 hot tub out of the ground are borne by the user. If the aforementioned conditions are not present, setting up the hot tub may fail.

First filling of the hot tub

Proper filling of the hot tub is an important task both technically and chemically. We advise installation and periodic maintenance by the servicing professionals, which includes inspection and refilling of hot tub water. Hot tubs do not contain water softener and hard water damages the equipment. Improper filling of the hot tub may bring air into the system, which damages the heating wire and engines. Repairs after such failures are not covered by warranty.

INITIAL INSTALLATION

Filling process

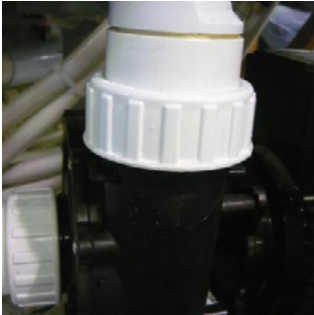
Remove the hot tub cover. First remove the cover staves, then remove the side covers by unscrewing the bottom screws. During transportation the flare fittings of engines may dislocate. Check these connections before installation. If necessary, tighten the flare fittings.

Before filling the hot tub check that the Slice valves are not in a closed state (lever is pulled out and fixed with the safety lock).

Next fill the hot tub 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.



INITIAL INSTALLATION

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.

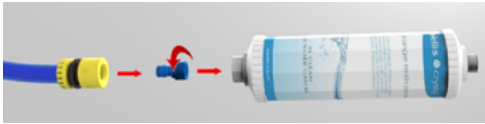
2.

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.



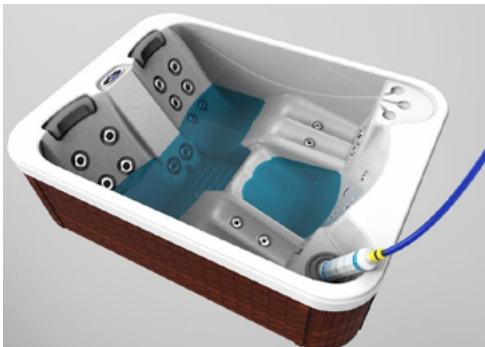
0'-30'



>30'

5.

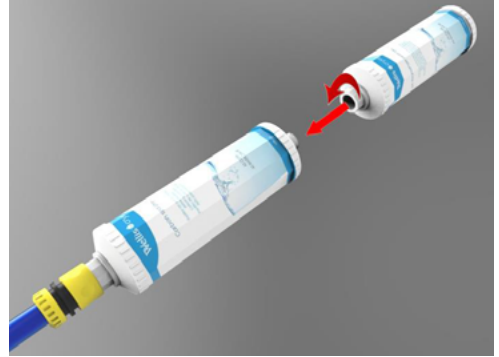
Through the clean filter fill up the spa with one third (1/3) of the total volume (e.g.: with 1000 litres of total volume 1/3 is 300 litres). It is important to follow the instructions of the filling for it is crucial to set the precise water hardness.



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.

MAINTENANCE

FILTER CARTRIDGE REMOVAL AND CLEANING

Cleaning mechanical contaminations via continuous water circulation and chemical mixture is a basic requirement for proper cleaning of the spa water. Every spa has an engine designed for this purpose. The circulation engine circulates the water through the filter(s). The filter protects against contamination floating in the water.

Cleaning of the filter cartridges is recommended weekly.

Soaking the filter cartridges in water mixed with chlorine or antialgae agents for 24 hours is recommended monthly.

Changing the filter cartridges is necessary every 3 months.

SURFACE MAINTENANCE

Wipe the surface with a wet cloth. Always use a neutral cleaning product and a soft wiping cloth. Never scratch the acrylic surface with an abrasive tool, blade, or knife, because it may cause damage. Never use nail polish remover, acetone, or paint stripper when cleaning the surface because it may cause damage.

Maintenance manual for the control panel of the spa:

- Do not damage the control panel with anything hard. If possible,
- Avoid exposing the control panel to direct sunlight.
- When not using the spa, always use a spa cover.

WINTERIZATION

Remember to correctly maintain the spa if you are not using it in the winter. If you are not using your spa during the winter months and want to put it out of service properly, call one of our qualified professionals to winterize your spa at a prearranged date and time.

The winterization encompasses the following:

- Drainage of used water
- Cleaning of the inner surface of the spa
- Dewatering of pipe and jet system
- Dewatering and disconnecting the engine's interface
- Delivery - reception

If the spa is not winterized properly, the system can retain water that can easily freeze during the winter months. This can cause heavy irreparable damage to the pipes and the engine. This will void the warranty.

Maintenance of the out-of-service spa:

When you are not using the spa, use the thermo cover and fasten it with the buckles. Do not forget! If the spa is filled with water and you are not using it, lift the cover at least once a week to ensure proper ventilation. The thermo cover is multipurpose. Most importantly it decreases the heating time of the water to operational temperature and decreases the energy needed to maintain water temperature, decreasing the operational costs.

Using the cover you can avoid leaves, rain, snow, or other contamination entering the spa water, effectively sealing it off from environmental effects.

Fastening the cover with buckles prevents young children from using it without parental supervision.

CLEAN THE FILTER CARTRIDGES WEEKLY AS FOLLOWS:

WARNING!

Changing the filter cartridges is recommended every 3 months!

Operating the spa without a filter cartridge is PROHIBITED

1. Remove the lid of the filter.
2. Take out the filter cartridge.
3. Clean contamination from the cartridge with water.
4. Soak the cartridge in lukewarm water mixed with chlorine or antialgae agents for 1-2 hours, then rinse it.

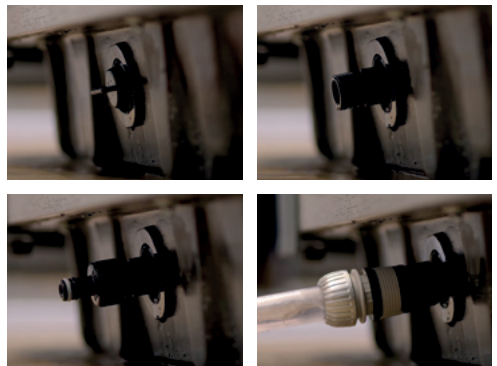
Never use an alkaline detergent or a high-pressure cleaner to clean the filter!



DRAINING THE WATER

You can drain the water via the drain outlet in accordance with environmental standards.

1. You'll need a hose a wet and dry vacuum cleaner and a bottle of wellis crystal spa cleaner fluid.
2. Pour the cleaner fluid into the water one day before draining and run the open jets at maximum performance for 20 to 25 minutes. The cleaner will remove any lime scale and dirt from the spa and its pipe work.
3. Before draining the spa remove the filters, this is a good time for cleaning or replacing them.
4. You don't need a pump for draining the water pull out the draining valve to the limit.
5. Remove the cap and attach the hose.
6. Push back the valve halfway then rotate and secure it in this position, this will start the flow of water. We recommend rinsing the tub while it drains.
7. When the tub is empty remove the hose and close the valve.
8. Use a wet and dry vacuum to clean up any remaining water from the spa and the jet nozzles.



SPA CHEMICAL TREATMENT

SPA CLEANER (WV00080)

Spa Cleaner has been specially designed for cleaning your pipes and your spa pool. It dissolves calcium and remaining dirt in your lines. We advise to use Spa Cleaner every time you change the water, we recommend to do this every three months. Spa Cleaner is environmentally friendly and bio-degradable.

Instructions:

1. Add 250 ml of Spa Cleaner to your spa, 24 hours before changing the water.
2. Make sure all jets and valves are open, and switch on the pumps at full power for 15 minutes. Repeat this 3 times, with enough time in between.
3. Remove the filter before you drain your spa water.
4. Clean the filter with Wellis Crystal Filter cleaner.
5. Rinse out the spa with clean water.
6. Fill your spa and place the clean filter back.
7. Resume your normal water treatment schedule with Wellis Crystal All in one Water treatment.



ALKALINITY BALANCER (WV00091)

Increases total alkalinity and prevents fluctuating pH values. Alkalinity is important to be able to check the pH value.

Instructions:

1. Shake well before use
2. Add 1 or 2 tablespoons of Alkalinity Balancer to the spa water
3. Put your pumps on circulation for at least 30 minutes
4. Test the alkalinity value again and repeat the treatment until the alkalinity value is between 80 and 120 ppm

BRIGHT AND CLEAR (WV00090)

For neutralizing dirt, soap, oil in all spas. When added regularly, ensures crystal clear water.

Instructions:

1. Add 100ml into the spa. Pour product directly into the spa and run the filter system for 1 hour.
2. Rinse the filter unit.
3. Put the filter back and enjoy your spa!



SPA CHEMICAL TREATMENT

FOAM DOWN (WV00093)

Anti-foam product for use in spas. Contains no oily substances. Designed for hot water applications.

Instructions:

1. Shake well before use.
2. Spray undiluted to the foam.
3. Repeat step two if needed.
4. Enjoy your spa!



PH MINUS (WV00096)

The pH value of the water in your spa is very important. If the pH value is good, the disinfection products can do their work in a good way. Wellis Crystal pH Minus lowers the pH in your spa.

Instructions:

1. Test the pH of your spa
2. If the PH is too high, adjust it with pH Minus.
3. Add 2 ml pH- per 1000 liter water, in order to decrease the pH value with 0.1 point.

METAL CLEAR (WV00094)

Prevents the accumulation of deposits on the metal components of the spa's nozzles. Interacts with metallic contamination before it can cause invisible deposits in your spa. Neutralizes iron, copper, and other water-bound minerals and keeps them from accumulating on the spa's surfaces and causing damage there. Use whenever you fill your spa to quickly neutralize metals and prevent unsightly staining.

Features:

- Prevents iron, copper, and other minerals from accumulating in the spa.
- Use whenever you exchange the spa's water to quickly neutralize metals and prevent deposits.
- Only use when the entire spa water is being exchanged - the product is of high concentration.

Instructions:

- Interval: whenever the spa is being (re-)filled.
- Evenly spread 250 ml of Metal Clear in the spa.
- Run the filter system for 30 minutes.



SPA CHEMICAL TREATMENT

FILTER CLEANER (WV00079)

If you clean the filter once a week, is it easier to keep the water crystal clear.

Instructions:

1. Take the filter out of your spas filter housing.
2. Fill a bucket with 10 liter hot water, put 2 scoops of Filter cleaner in and leave the filter in this solution for 1-1.5 hours (turn the filters during this process).
3. Rinse the filter, and put it back in its place.



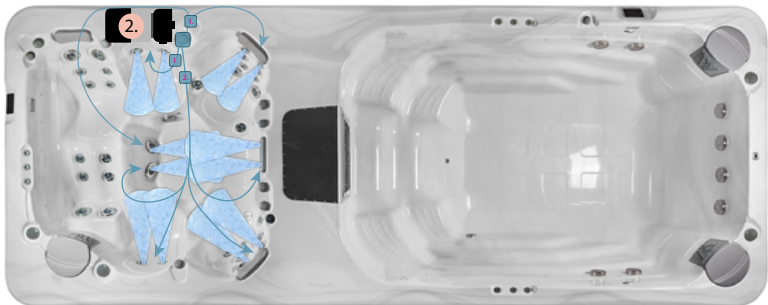
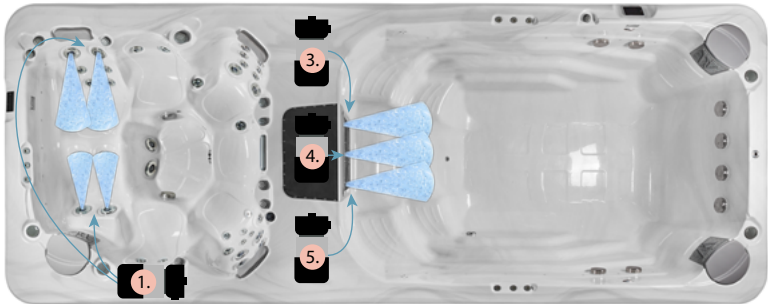
WELLIS CRYSTAL ALL-IN-ONE (WV00081)

Instructions:

- Shake the Wellis Crystal bottle well.
- Add the correct amount to your spa using the table below.
- Let the pump run at full power for 2 minutes.
- Add your disinfectant, for example 1 90/20 chlorine tablet.
- Repeat these steps weekly.

JET DIRECTIONS

RIO GRANDE W-FLOW



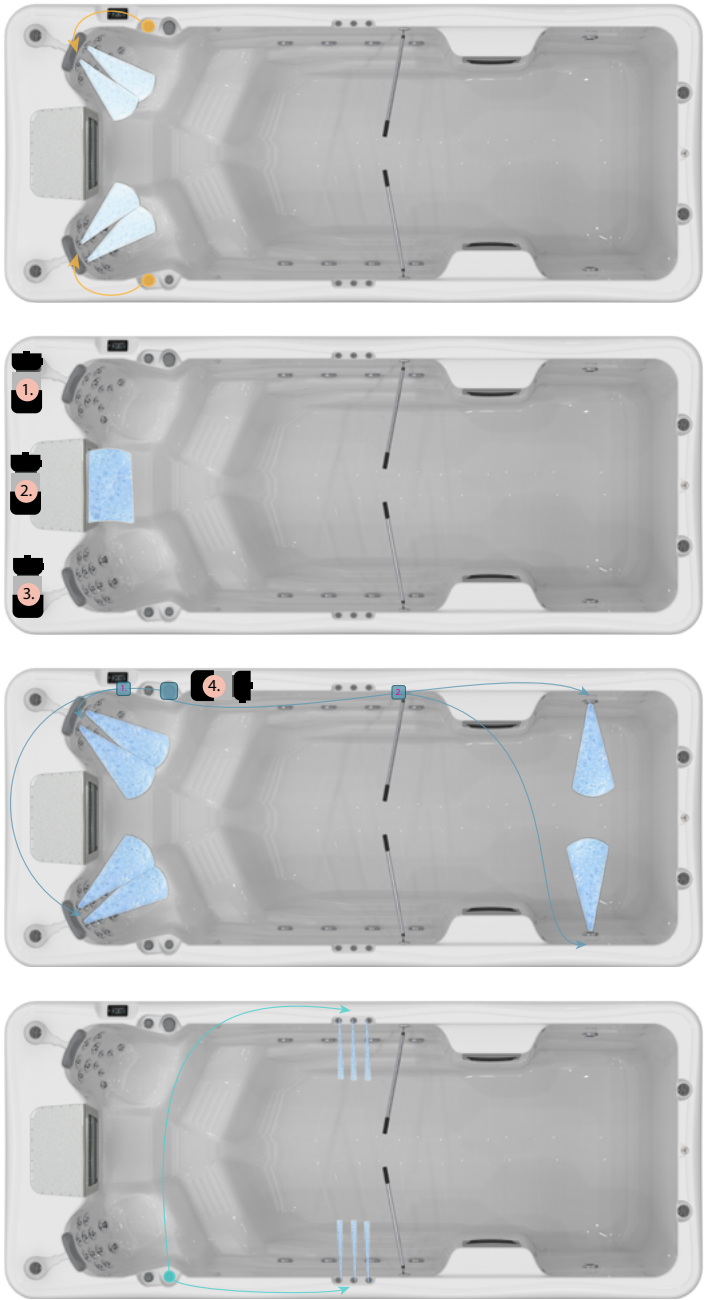
JET DIRECTIONS

AMAZONAS RIVERJET



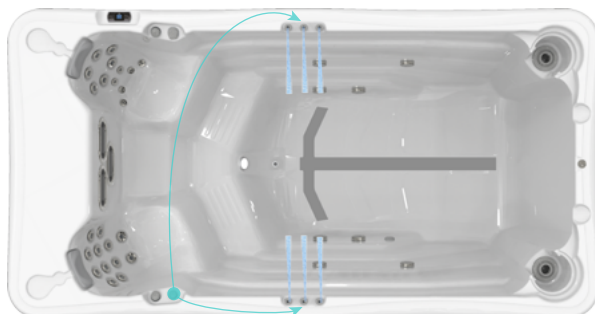
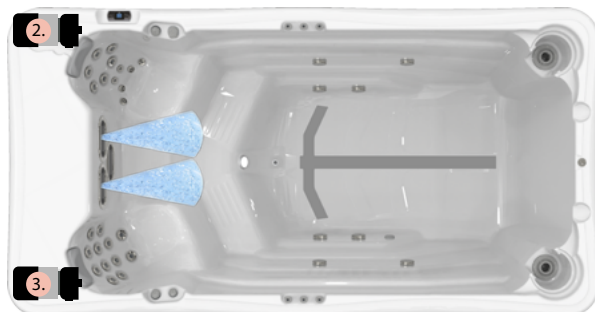
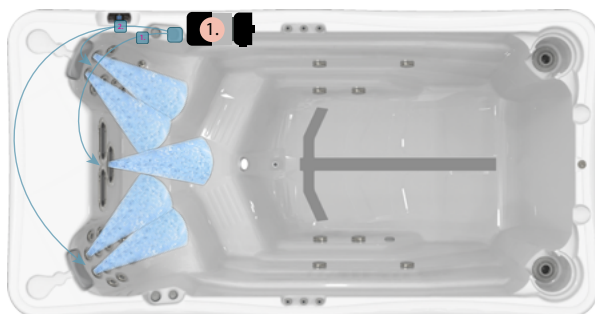
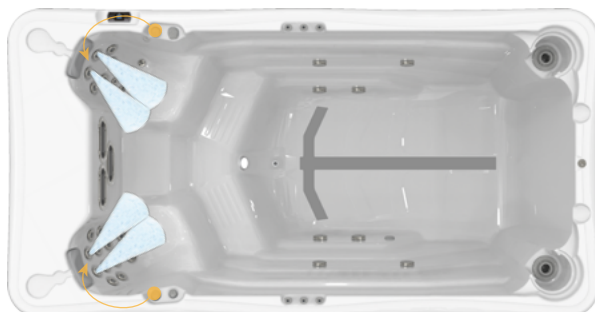
JET DIRECTIONS

AMAZONAS W-FLOW



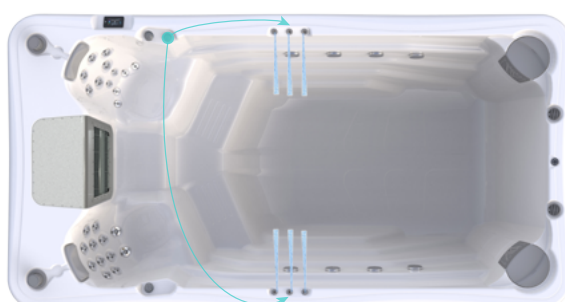
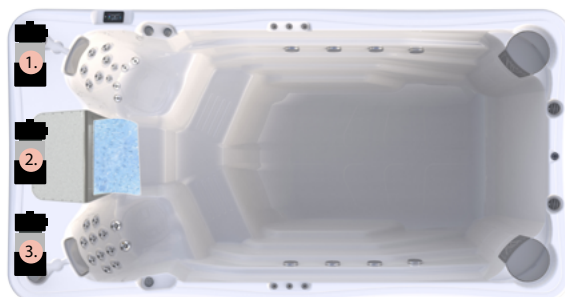
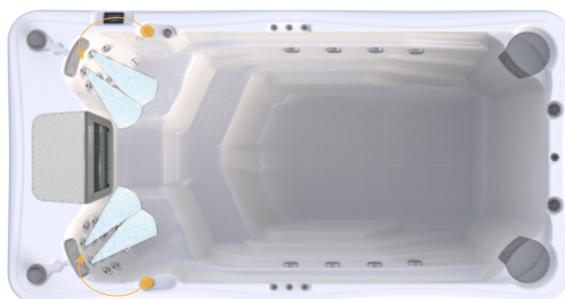
JET DIRECTIONS

DANUBE RIVERJET



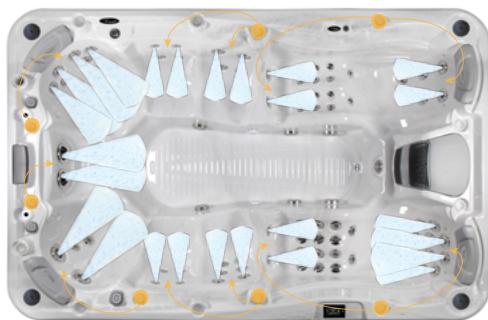
JET DIRECTIONS

DANUBE W-FLOW



JET DIRECTIONS

OLYMPUS



KEYPAD FUNCTIONS

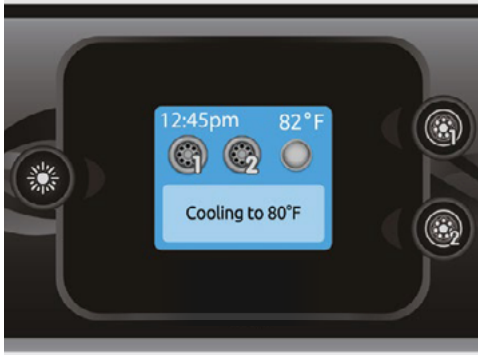
Settings key

One press gives you access to a menu to manage the settings of your spa. Refer to the settings section for details about the settings menu.

Mode key

Successive presses on the Mode key will give access to control different optional accessories of your spa such as Audio and others. Note that if an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section to get details about the possible accessories and their detailed functionalities. The screen will revert back to the spa mode if no key is pressed for 60 seconds.

If you don't have any accessories on your spa, the Mode key can be used to directly change your display orientation.



Power

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

Main screen

The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present.

KEYPAD FUNCTIONS



Start or stop accessories

To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate 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 two states, press the button until it reaches the desired state.

Note (version 14.00 and higher):

A special buttons and icons mapping may be used when the spa configuration has 4 accessories* (3 pumps and a blower or 4 pumps and no blower). In this case only, buttons and icons are divided in 2 sets of accessories. Button #1 starts or stops pump #1 and pump #2. Button #2 starts or stops Pump #3 and Pump #4/blower.

Corresponding icons will be animated when one or more accessories are on.

** Only Pump #1 can have a dual speed.*



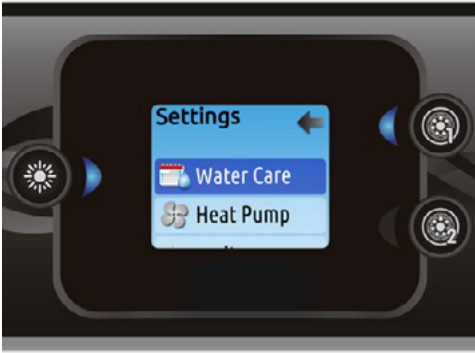
Water temperature

The temperature shown at the top of the screen is the current water temperature. Use the Up and Down buttons to set the desired temperature.

The set point will appear in blue at the bottom. After 3 seconds without any change to the set temperature value, the keypad will resume the normal display of messages.

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

KEYPAD FUNCTIONS



Settings

From the home page you can access the Settings, where you will find:

- *Water care*
- *Heat Pump (if installed)*
- *Audio (if installed)*
- *in.clear-200 (linked version)*
- *Standby*
- *Maintenance*
- *Date & time*
- *Keypad*
- *Wi-Fi*
- *Config*
- *Restore*
- *About*

Use the arrow keys to move up and down in the list.
To select an option, press the lit button beside it (Light button).

At any point you can press the Settings button to return to the home screen.

KEYPAD FUNCTIONS



Water care

The Water Care section will help you set up your ideal filtration and heating settings. Choose from Away, Standard, Energy Savings, Super Energy Savings, and Weekender, depending on your need. Use Light key to choose your setting. A checkmark will appear on the selected icon to confirm.

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.

** Default pack value*

Water care modes

Away:



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

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*.

**Filtration will be reduced when the economy mode is active.*

KEYPAD FUNCTIONS

Modifying schedules

To see and/or modify a Water Care category, use the lit button to the right (Key 1) to open the selected Water Care menu.

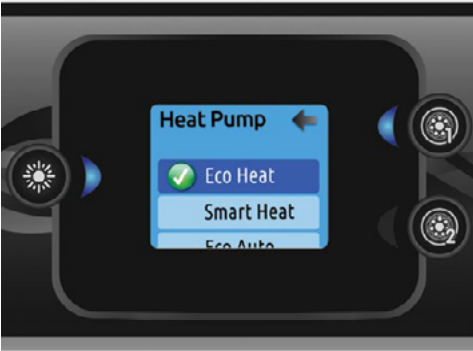
Use the arrow keys to choose a schedule to modify (choice of economy and filtration schedules). Use the Light key to move between parameters.

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 Key 1 to go back. Ensure that you have selected the desired Water Care option in the main Water Care menu.

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.



KEYPAD FUNCTIONS



Heat pump

This menu allows you to change the regulation mode of your heat pump. You can choose from Eco Heat, Smart Heat, Eco Auto, Smart Auto, Cool and Electric.

A green checkmark indicates the currently selected regulation mode. To change the setting, simply navigate the menu using the arrow key and press the Light Key to choose the desired regulation mode.

Heat pump modes

Eco Heat



In this mode, the heat pump is used as the unique source of heating. The heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.

Smart Heat



This mode uses the heat pump as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.

Eco Auto



This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.

Smart Auto



This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.

Cool



This mode uses the heat pump in cooling mode only. The heat pump is not used as a heating source and the heating element is never activated.

Electric



This mode keeps the heat pump off and uses only the heating element to regulate water temperature.

KEYPAD FUNCTIONS

Maintenance

From the Settings page you can access the Maintenance menu, which gives you access to the following options:

- *Maintenance reminders*
- *Standby*

Use the Up and Down keys to make a selection, and Light key to confirm.



Maintenance reminders

The in.k500 keypad will remind you of maintenance required on your spa, like rinsing or cleaning the filter. Each task has its own duration, based on normal use.

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

Use the Up and Down keys to move through the list.

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



Standby

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

Once Standby mode has been activated a screen will appear to show that pumps are stopped. The normal spa page will return at the end of maintenance.

Press the Key 1 to leave Standby mode and restart the spa.

Note:

In version 6.00 only, Standby mode is accessible directly from the Settings page.



KEYPAD FUNCTIONS

Date and time

Here you can adjust the time format, change the year, date and time. Use the arrows to choose the setting that you want to adjust, and select it by pressing the Light key.

Use the arrow buttons to change the parameters, and the Light key to move between parameters. Key 1 will take you back to the main Settings menu.

Note:

In version 6.00 and earlier, only the day of the week can be changed, and not the year or date.



Keypad settings

In this section, you can change the temperature unit, language, display orientation, rim light color and keypad security. Note the spa pack must be configured accordingly to be able to change the rim light color.

When you change the display orientation, the contextual options and arrow keys adjust to the chosen orientation. If you don't have any accessories installed on your spa, the Mode key can be used as a display orientation key. Simply press on it to change your orientation from normal to inverted, and vice versa.

Whether the display is inverted or not, the Mode and Menu keys remain unchanged, as well as the accessory keys in the main Spa menu.

With the in.k500 equipped with a selectable rim light color modul: If the "RGB backlight" option is enabled in the spa configuration an option will appear to allow selection of the keypad rim light color.

You can lock the keypad by selecting one of 3 security levels: Unlock, Partial or Full. The Partial level locks the set point adjustment and many options in the settings menu. The Full level locks all keypad functions. To unlock the keypad (either Partial or Full), press and hold the Light key for 5 seconds.



KEYPAD FUNCTIONS

WiFi (in.touch only)

For the WiFi menu to appear in the Settings menu your in.touch module must be equipped with software version 11.00 or higher. This menu allows you to connect your in.touch module to a WiFi network or to change its network.

For more details about other in.touch connection methods please see the in.touch techbook.

To connect your in.touch module to a wireless network, use the Up/Down keys to go to the WiFi option in the Settings menu and Light key to select it.

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

Use the Up/Down keys to move through the list. Select your network by pressing on Light key.

If the WiFi network is password protected enter it when prompted.

- Use the arrow keys to choose your letters and change the type of character (uppercase, lowercase, number, symbol).
- Use Key 2 to move the cursor forward
- Use Key 1 to backspace
- Use Light key to confirm

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

Once the in.touch module is connected to a WiFi network a check mark in a green circle will appear in the WiFi menu, and the network logo will change to green in Settings menu.

Note:

WiFi logo color in Settings menu corresponds to the in.touch connection state.

Yellow = not connected

Green = connected to a network

Yellow with wait icon = connection attempt to a network
Red with wait icon = in.touch no longer detected (in.touch must be reset before next connection attempt)



KEYPAD FUNCTIONS



Config

Please do not make changes in the electrical configuration section unless you are a qualified electrician.

In this section you can change the low-level configuration, number of phases, input current and heat pump current.

Use Up/Down to move between parameters, and the Light key to select a parameter to change. Please refer to the techBook of your specific control system for spa for details about the low level settings.

Once you have changed the Number of Phases in the menu, you will be unable to use the Up/Down keys to return to the Low-level Configuration menu. Please go back and re-enter the Config menu.

Note with version 15.00 and higher:

Depending on the pack configuration, a code may be required to change these settings. This code is "5555".

KEYPAD FUNCTIONS

The list below shows the different error messages that can appear on the home screen.
Refer to the troubleshooting and error codes section of the TechBook for your spa pack system.

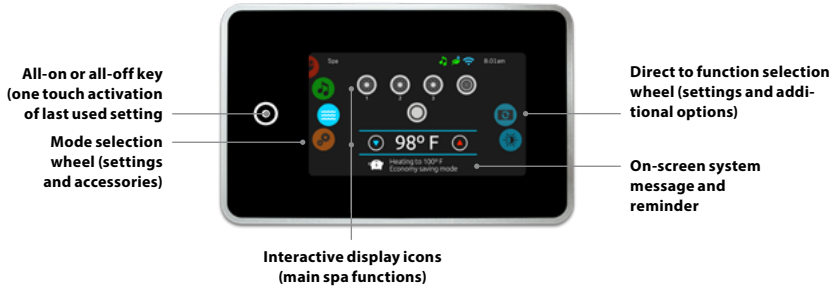
Code	Message
HL	Warning! HL Error
FLO - L01	FLO - L02 FLO FLO condition - Check filter, pump, blockage, air lock and water level
NO FLO	Persistent NO FLO, all off - Check filter, pump, blockage, air lock and water level
HR	Danger! Relay stuck
OH	Warning! Spa temp. high
Pr	Warning! Temp. probes defective
AOH	Internal pack temp. high
FLC	Flow switch closed
SP in	Input voltage issue
F1	in.xm2 Fuse # 1 is blown
F2	in.xm2 Fuse # 2 is blown
F3	in.xm2 Fuse # 3 is blown
Hr	Danger! Thermal fuse error
UPL	The spa pack does not have valid software. Please insert valid in.stick to reprogram spa pack.

USER INTERFACE - SMART TOUCH

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

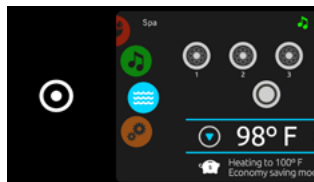
Quick and easy step-by-step instructions to control the main functions and to configure the system settings of your spa from its Smart Touch main spa keypad.



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

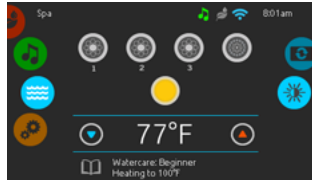


SPA MODE

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.

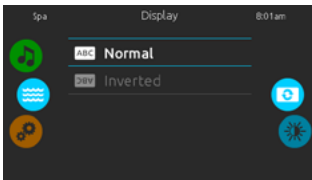
Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than one speeds press the button until it reaches the desired speed.



WATER TEMPERATURE

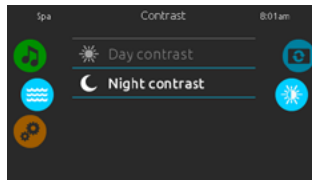
The temperature shown at the bottom of the screen shows the current water temperature. Use the Up and Down icon to set the desired temperature. The set point will appear in blue. After 3 seconds without any change to the set temperature value, the current water temperature will reappear.

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.



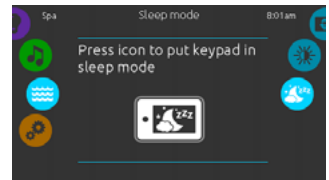
DISPLAY ORIENTATION

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.

SWIM SETTINGS

The endless swimming experience is only available through the swimming programs, exclusively in the W-flow pools.



To access your swim spa training drills, touch the swimmer icon on the left.

Before choosing one, we recommend to adjust the parameters. Touch the settings icon on the right icon wheel.

From there, you can access 5 different parameters.

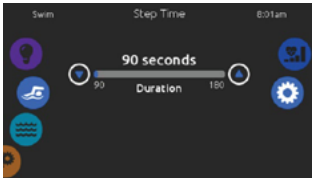


The first one is Warm up. There, you can adjust the duration and intensity of your training warm-up by touching the up and down arrows.

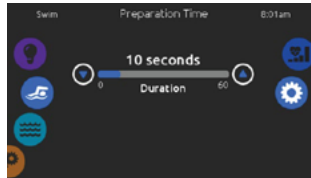
Once done, touch the settings icon to go back to the main settings menu.



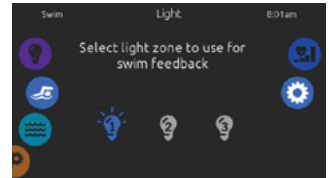
The second one is Cooldown. There, you can adjust the duration and intensity of your training cooldown by touching the up and down arrows.



Adjust the training drill Step Time duration by touching the up and down arrows.



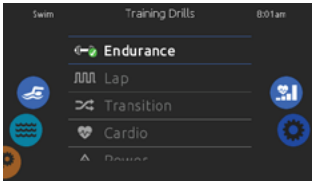
Preparation Time gives you some time to get into swimming position after touching the start button and before the pumps actually start. You can set the duration of your preparation time by touching the up and down arrows.



Finally, the light option gives you the possibility to select which in.mix zones you want to use for your swim feedback (requires an installed in.mix)

USER INTERFACE - SMART TOUCH

TRAINING DRILLS - ENDURANCE



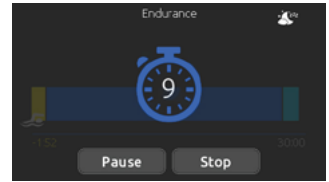
To select a training drill, touch the training drill icon on the top of the right wheel icon.

If you choose Endurance the swimming workout will be executed at a constant intensity for the entire set duration.



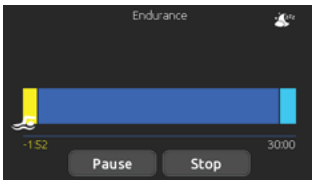
You can adjust the duration and intensity of your Endurance training drill by touching the up and down arrows.

Touch Start when ready.



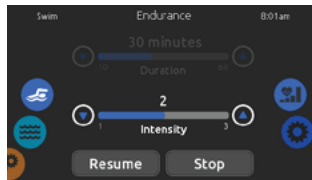
The preparation countdown is displayed, allowing you to get in position before your swimming session starts. Your in.mix controlled lights will blink during the countdown (requires an installed in.mix). The keypad can be put in sleep mode by touching the sleep icon located at the top right of the screen. It will prevent interruptions of your swim session from water splashing on the keypad display.

You can touch Pause or Stop whenever you need.



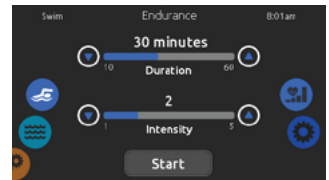
During the workout session, you can follow your progression with the swimmer icon moving toward right over the training duration bar.

You can touch Pause or Stop whenever you need.



Touch Pause to suspend your swim session. You will be able to change the intensity level of your drill or go in other menus to start the music, for example.

Touch Resume when ready to swim again. The workout session will resume but the preparation countdown stopwatch won't reappear.

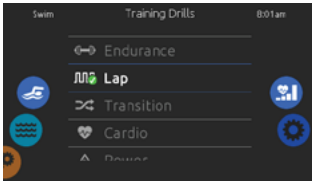


If you touch Stop to interrupt your swim session, you will be able to change the duration and/or the intensity of your session, select another training drill or modify any other parameters.

Touch Start to start your workout from the beginning. The preparation countdown will start.

USER INTERFACE - SMART TOUCH

TRAINING DRILLS - LAP



To select a training drill, touch the training drill icon on the top of the right wheel icon.

If you choose Lap, this training drill will perform high and low intensity intervals of equal step time.



You can adjust the duration and intensity of your Lap training drill by touching the up and down arrows.

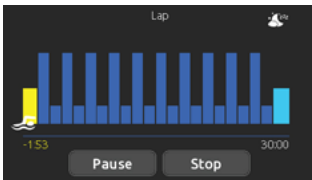
Touch Start when ready.



The preparation countdown is displayed, allowing you to get in position before your swimming session starts. Your in.mix controlled lights will blink during the countdown (requires an installed in.mix).

The keypad can be put in sleep mode by touching the sleep icon located at the top right of the screen. It will prevent interruptions of your swim session from water splashing on the keypad display.

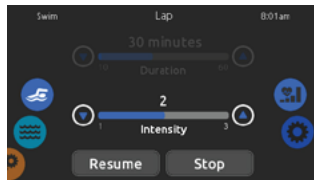
You can touch Pause or Stop whenever you need.



During the workout session, you can follow your progression with the swimmer icon moving right over the training duration bar.

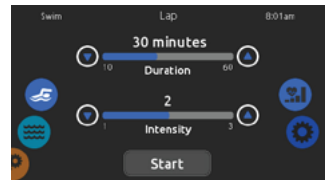
Your in.mix controlled lights will change colors before each interval to inform you of the change of intensity (requires an installed in.mix).

You can touch Pause or Stop whenever you need.



Touch Pause to suspend your swim session. You will be able to change the intensity level of your drill or go in other menus to start the music, for example.

Touch Resume when ready to swim again. The workout session will resume but the preparation countdown stopwatch won't reappear.

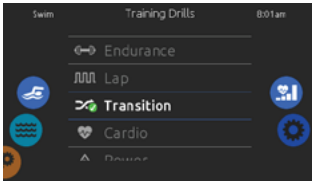


If you touch Stop to interrupt your swim session, you will be able to change the duration and/or the intensity of your session, select another training drill or modify any other parameters.

Touch Start to start your workout from the beginning. The preparation countdown will start.

USER INTERFACE - SMART TOUCH

TRAINING DRILLS - TRANSITION



To select a training drill, touch the training drill icon on the top of the right wheel icon.

If you choose Transition, this training drill will perform a series of equal steps at random intensities.



You can adjust the duration and intensity of your Transition training drill by touching the up and down arrows.

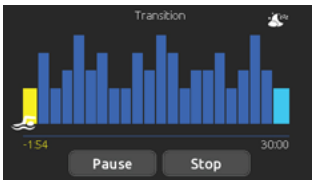
Touch Start when ready.



The preparation countdown is displayed, allowing you to get in position before your swimming session starts. Your in.mix controlled lights will blink during the countdown (requires an installed in.mix).

The keypad can be put in sleep mode by touching the sleep icon located at the top right of the screen. It will prevent interruptions of your swim session from water splashing on the keypad display.

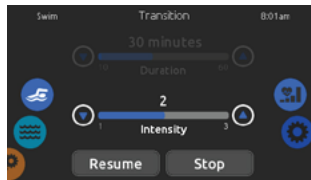
You can touch Pause or Stop whenever you need.



During the workout session, you can follow your progression with the swimmer icon moving toward right over the training duration bar.

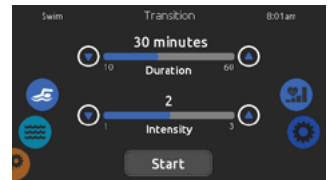
Your in.mix controlled lights will change colors before each interval to inform you of the change of intensity (requires an installed in.mix).

You can touch Pause or Stop whenever you need.



Touch Pause to suspend your swim session. You will be able to change the intensity level of your drill or go in other menus to start the music, for example.

Touch Resume when ready to swim again. The workout session will resume but the preparation countdown stopwatch won't reappear.

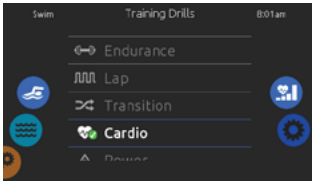


If you touch Stop to interrupt your swim session, you will be able to change the duration and/or the intensity of your session, select another training drill or modify any other parameters.

Touch Start to start your workout from the beginning. The preparation countdown will start.

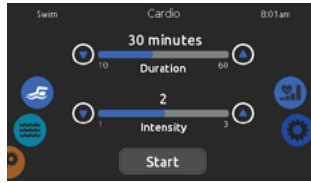
USER INTERFACE - SMART TOUCH

TRAINING DRILLS - CARDIO



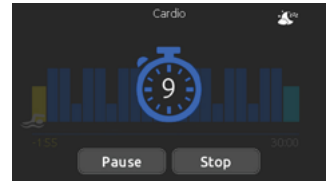
To select a training drill, touch the training drill icon on the top of the right wheel icon.

If you choose Cardio, this training drill will perform two successive steps at high intensity for one step at low intensity.



You can adjust the duration and intensity of your Cardio training drill by touching the up and down arrows.

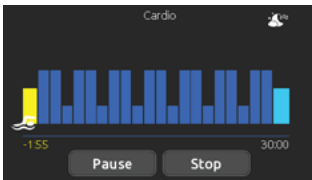
Touch Start when ready.



The preparation countdown is displayed, allowing you to get in position before your swimming session starts. Your in.mix controlled lights will blink during the countdown (requires an installed in.mix).

The keypad can be put in sleep mode by touching the sleep icon located at the top right of the screen. It will prevent interruptions of your swim session from water splashing on the keypad display.

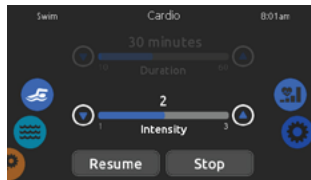
You can touch Pause or Stop whenever you need.



During the workout session, you can follow your progression with the swimmer icon moving toward right over the training duration bar.

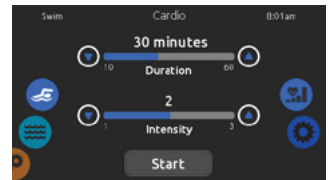
Your in.mix controlled lights will change colors before each interval to inform you of the change of intensity (requires an installed in.mix).

You can touch Pause or Stop whenever you need.



Touch Pause to suspend your swim session. You will be able to change the intensity level of your drill or go in other menus to start the music, for example.

Touch Resume when ready to swim again. The workout session will resume but the preparation countdown stopwatch won't reappear.

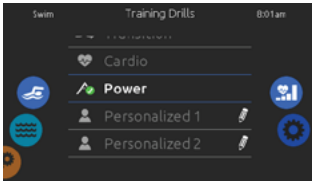


If you touch Stop to interrupt your swim session, you will be able to change the duration and/or the intensity of your session, select another training drill or modify any other parameters.

Touch Start to start your workout from the beginning. The preparation countdown will start.

USER INTERFACE - SMART TOUCH

TRAINING DRILLS - POWER



To select a training drill, touch the training drill icon on the top of the right wheel icon.

If you choose Power, this training drill will perform a pyramid program where the intensity will progressively increase until a maximum intensity level is reached. It will then decrease progressively to end at low intensity.



You can adjust the duration and intensity of your Power training drill by touching the up and down arrows.

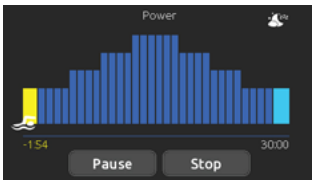
Touch Start when ready.



The preparation countdown is displayed, allowing you to get in position before your swimming session starts. Your in.mix controlled lights will blink during the countdown (requires an installed in.mix).

The keypad can be put in sleep mode by touching the sleep icon located at the top right of the screen. It will prevent interruptions of your swim session from water splashing on the keypad display.

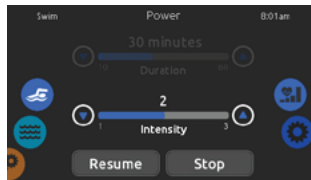
You can touch Pause or Stop whenever you need.



During the workout session, you can follow your progression with the swimmer icon moving toward right over the training duration bar.

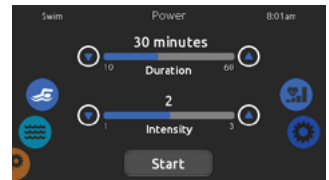
Your in.mix controlled lights will change colors before each interval to inform you of the change of intensity (requires an installed in.mix).

You can touch Pause or Stop whenever you need.



Touch Pause to suspend your swim session. You will be able to change the intensity level of your drill or go in other menus to start the music, for example.

Touch Resume when ready to swim again. The workout session will resume but the preparation countdown stopwatch won't reappear.

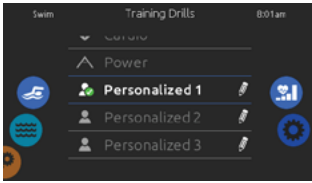


If you touch Stop to interrupt your swim session, you will be able to change the duration and/or the intensity of your session, select another training drill or modify any other parameters.

Touch Start to start your workout from the beginning. The preparation countdown will start.

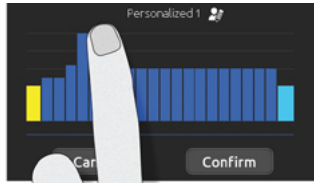
USER INTERFACE - SMART TOUCH

TRAINING DRILLS - PERSONALIZED



Three personalized training drills are available and can be edited to create custom workouts.

Touch the pencil icon at the right end of the desired personalized drill to open the training drill edit window.



Draw with your finger the desired workout pattern on the screen.

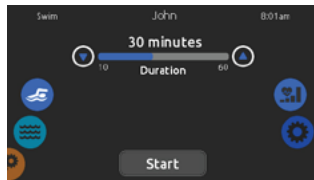
Name your personalized training by touching the pencil icon located at the right of the workout name.



Type your workout name. Once done, touch the return key to get back to the training drill screen.

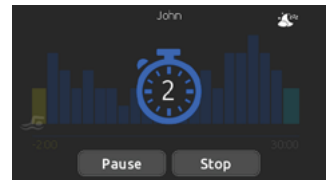


Touch Confirm to save your personalized workout. If you cancel, the modifications will not be saved.



This page allows you to adjust the duration of your personalized training drill by touching the up and down arrows.

Touch Start when ready.

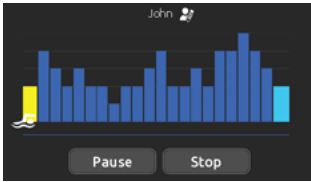


The preparation countdown is displayed, allowing you to get in position before your swimming session starts. Your in.mix controlled lights will blink during the countdown (requires an installed in.mix).

The keypad can be put in sleep mode by touching the sleep icon located at the top right of the screen. It will prevent interruptions of your swim session from water splashing on the keypad display.

You can touch Pause or Stop whenever you need.

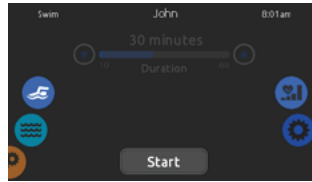
USER INTERFACE - SMART TOUCH



During the workout session, you can follow your progression with the swimmer icon moving toward right over the training duration bar.

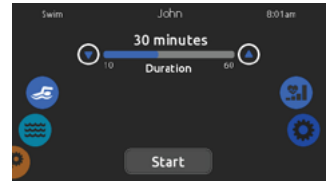
Your in.mix controlled lights will change colors before each interval to inform you of the change of intensity (requires an installed in.mix).

You can touch Pause or Stop whenever you need.



Touch Pause to suspend your swim session.

Touch Resume when ready to swim again. The workout session will resume but the preparation countdown stopwatch won't reappear.



If you touch Stop to interrupt your swim session, you will be able to change the duration and/or the intensity of your session, select another training drill or modify any other parameters.

Touch Start to start your workout from the beginning. The preparation countdown will start.

USER INTERFACE - SMART TOUCH

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

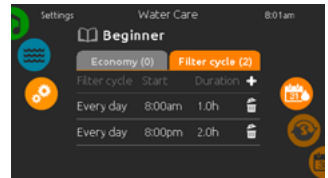
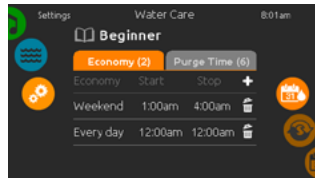
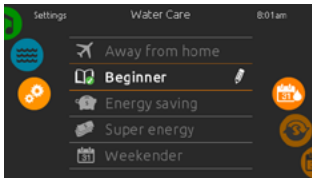
The spa will always be in economy mode during peak hours, every day of the week.



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

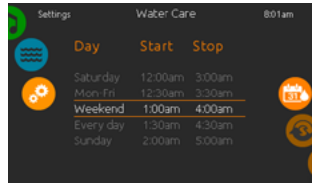
Touch the Economy tab to change the economy schedule. You can add economy schedules by touching the « + » symbol . To delete a schedule, touch the garbage can icon at the right end of the desired line.

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.

USER INTERFACE - SMART TOUCH

MODIFYING WATER CARE SCHEDULES

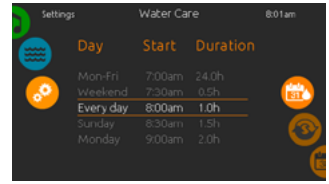


In Economy mode, the set point will be reduced by 20°F, which means that the heating system will not be engaged unless the temperature falls to 20°F below the spa's set temperature.

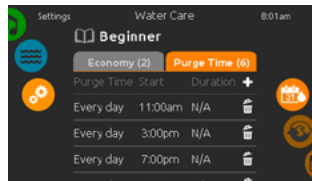
The filtration schedule shown on the screen will apply to the main filtration pump, most likely pump 1. If your spa uses a circulation pump configured to run 24 hours, the screen will show you the purge setting instead of filtration. The purges are pre-programmed for a fixed number of minutes, therefore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

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.



PURGES

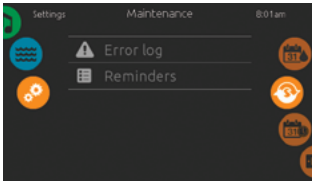
Touch the Purge tab to change the purge settings. You can add purges by touching the « + » symbol.

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



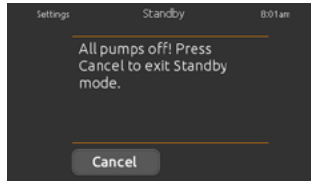
MAINTENANCE

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

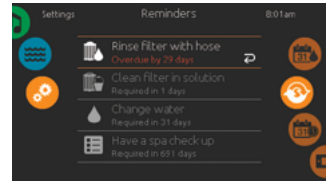
Simply touch the line of the item you want to change.



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.



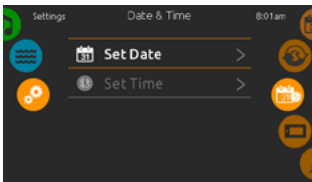
REMINDERS

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.

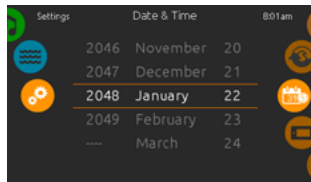
DATE AND TIME



DATE AND TIME

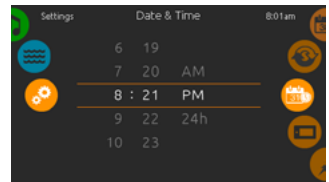
To modify date and time settings, slide the right wheel until the date and time icon is highlighted in the middle.

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



SET DATE

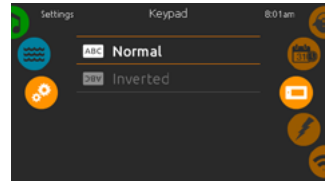
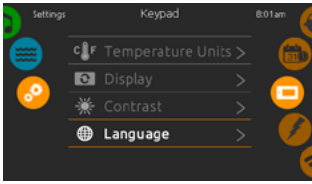
Here you can adjust the year, month and date. Simply swipe up and down the column you want to change, and select the desired value. When done, touch the calendar icon at the right of the screen.



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.

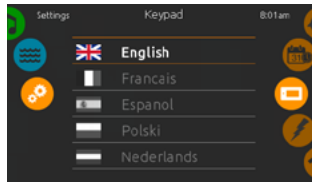
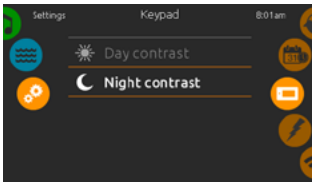
Simply touch the line of the item you want to change.

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.



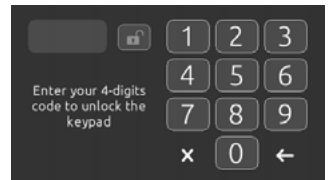
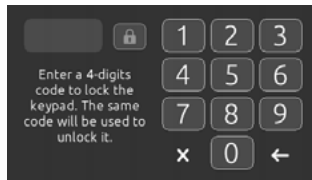
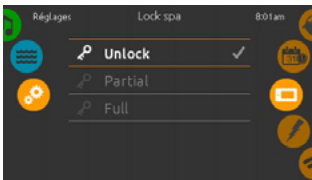
DISPLAY CONTRAST

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.

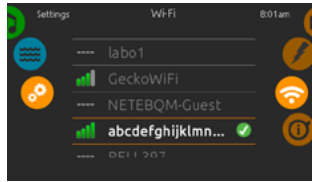
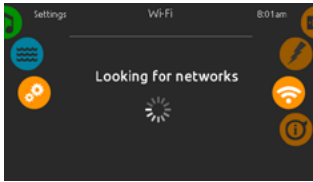
When Full Lock is selected, all functions are locked.

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

USER INTERFACE - SMART TOUCH

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.

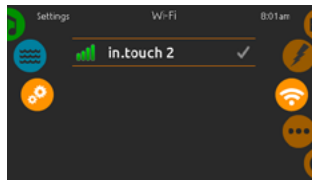
Swipe Up or Down the list to select your network.

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

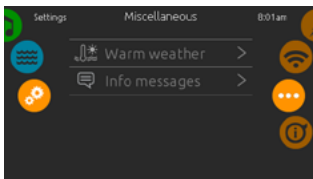


IN.TOUCH MODULE NOT CONNECTED

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

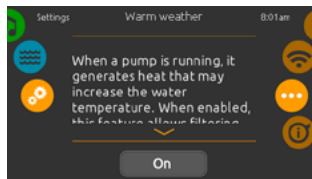
When an in.touch 2 is detected, this network will appear.

MISCELLANEOUS



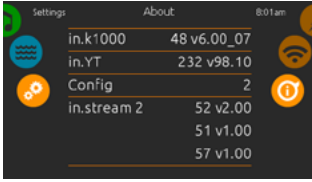
This menu gives access to modify the Warm Weather option and info messages in the media center.

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

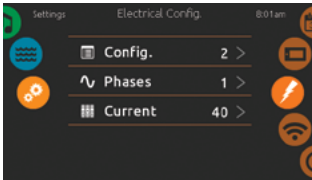


ABOUT

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.

USER INTERFACE - SMART TOUCH

AUDIO MODE

(only available if the system detects a connected Aquasoul Pro audio station)



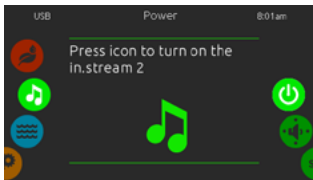
To select the audio mode, slide the left wheel up or down until the audio icon menu is highlighted in the middle.

In the Audio page you can access the following:

- Aquasoul Pro on/off
- speaker calibration
- audio source selector
- bluetooth pairing

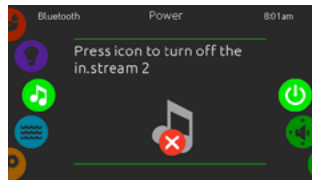
To select an item, slide the right wheel until the desired icon is highlighted in the middle.

ON/OFF



TURN AQUASOUL PRO ON

Slide the right wheel until the power on/off icon is highlighted in the middle. Press on the audio icon at the center of the screen to turn Aquasoul Pro on.



TURN AQUASOUL PRO OFF

Press on the audio icon in the center of the screen to turn Aquasoul Pro off.



MAIN DISPLAY

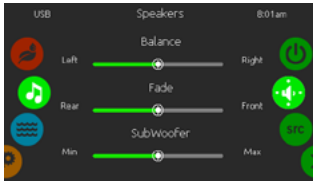
Press Play / Pause to start or pause playback of audio files.

Drag the volume slider to adjust the volume or tap the mute button to mute or unmute sound.

Press the last track or next track buttons to go to the previous song or skip to the next.

USER INTERFACE - SMART TOUCH

SPEAKER CALIBRATION



TO CALIBRATE YOUR SPEAKERS

Slide the right wheel until the speaker calibration icon is highlighted in the middle.

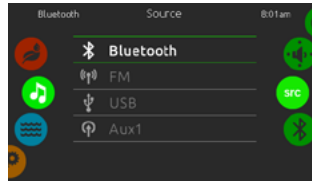
You can calibrate:

- balance
- fade
- subwoofer

Use the sliders to calibrate the speakers at the desired level.

The fade and subwoofer sliders will only appear on the screen if the corresponding speakers are installed on Aquasoul Pro.

AUDIO SOURCE SELECTOR



TO SELECT AN AUDIO SOURCE

Slide the right wheel until the source icon is highlighted in the middle.

In the menu list, the following sources are available:

- Bluetooth
- USB
- Aux. 1

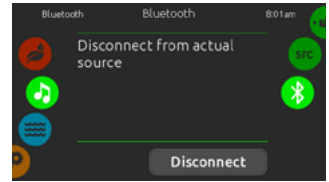
Simply select the desired one to use.

Note that only the sources installed on Aquasoul Pro will be displayed in the source menu. The USB and Aux. 1 connections are on the in.stream2 unit, they are not led out.

Please note that the Play/Pause and Change Track functions apply to devices using Bluetooth technology and USB, and will not work when AUX is selected as the source.

Please refer to the Aquasoul Pro connexions section to learn how to connect your Bluetooth device.

BLUETOOTH PAIRING



If you are using a device with Bluetooth technology, it must be connected for functions to work.

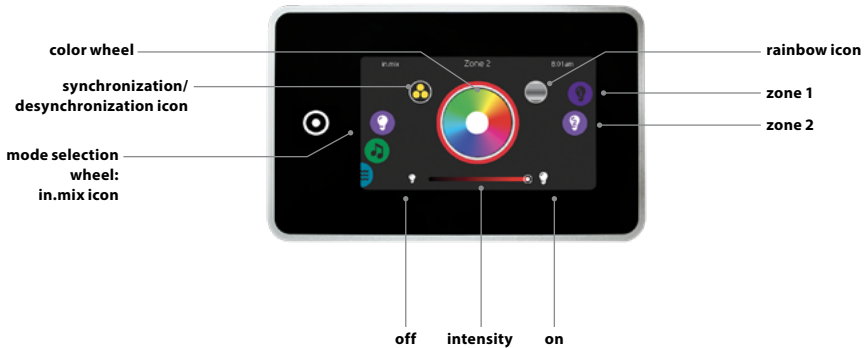
Slide the right wheel until the bluetooth icon is highlighted in the middle. Then follow the instructions displayed on the screen.

If a device with Bluetooth technology is connected to Aquasoul Pro, you can disconnect it by pressing the Disconnect button at the bottom of the screen.

Doing so will also prevent Aquasoul Pro from automatically reconnecting to this specific device until it has been reconnected using the device itself.

COLOR MODE

(only available if the in.mix is detected among the spa accessories)

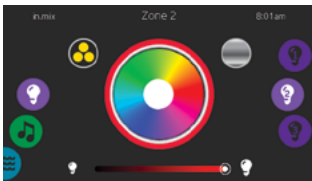


By default, the in.mix selects Zone 2 when you access the menu. To select the color mode, slide the left wheel up or down until the in.mix icon menu is highlighted in the middle.

In the color page you can access the following:

- zone selection
- changing colors
- on/off
- synchronizing zones
- intensity

IN.MIX FUNCTIONS



ZONE SELECTION

To select a zone, turn the right wheel until the desired icon is highlighted in the middle. This selection allows you to modify its color.

CHANGING COLORS

Once a zone has been selected, use the color wheel to choose the desired color, or the rainbow icon to get changing colors.

The rainbow icon alternates between slow transitions, fast transitions and normal color selection.

ON/OFF

There are two ways to turn the in.mix on or off. The first one is by using the Light icon on the SPA Screen. The second way is by touching the light bulb icons located each side of the intensity bar.

SYNCHRONIZING ZONES

The synchronization/desynchronization icon allows you to match the color of the selected zone with the other zones.

INTENSITY

Located at the bottom of the screen, the slider allows you to modify the intensity of the color.

USER INTERFACE - SMART TOUCH

TOO MUCH WATER ON DISPLAY

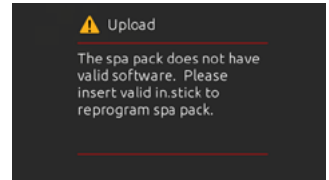
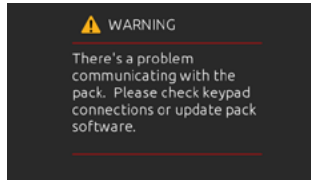


WIPE SCREEN

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 21°C. 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.

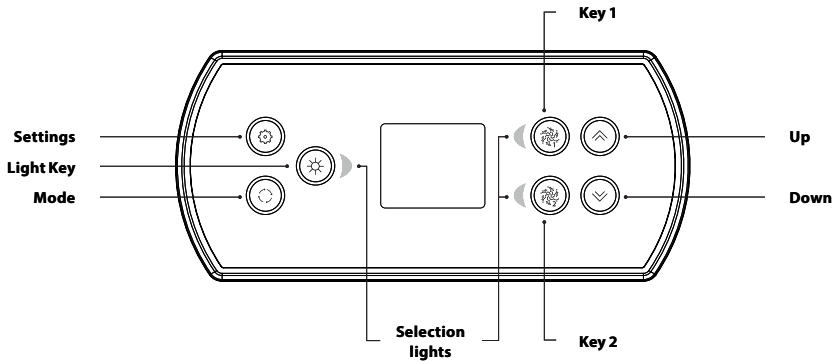
Besides continuously measuring the water temperature, it automatically changes the duration of the filtration period, but filters for at least 4 hours if the spa is equipped with a circulating motor, or for at least 2 hours if the water is filtered by the massage motor.

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

USER INTERFACE - EASY 7

EASY 7

KEYPAD LAYOUT



**Functions for keys 1 and 2 will depend on your system's low level configuration.*

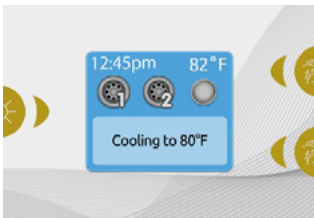
SETTINGS KEY

One press gives you access to a menu to manage the settings of your spa. Refer to the settings section for details about the settings menu.

MODE KEY

Successive presses on the Mode key will give access to control different optional accessories of your spa such as Audio and others. Note that if an accessory is not present in your spa configuration, its menu will not appear. Refer to the following section to get details about the possible accessories and their detailed functionalities. The screen will revert back to the spa mode if no key is pressed for 60 seconds.

If you don't have any accessories on your spa, the Mode key can be used to directly change your display orientation.



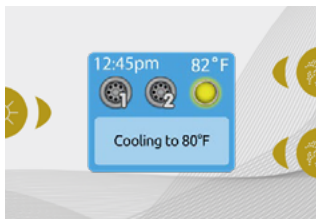
POWER

Press any button to turn the keypad on. After 30 minutes without activity it will shut off.

MAIN SCREEN

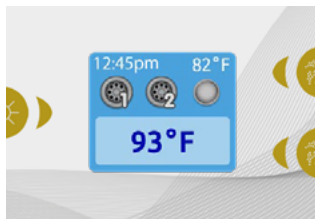
The main screen gives you access to your accessories and water temperature. At the bottom of the screen you will see any error or maintenance messages that are present..

USER INTERFACE - EASY 7



START OR STOP ACCESSORIES

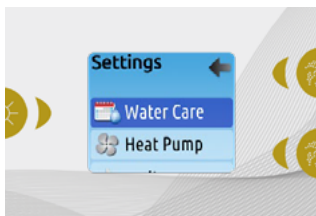
To start or stop an accessory, press the associated button. Icons will become animated when their accessory is turned on, and inanimate when turned off. Icons on the screen will reflect the speed or state of the devices running on your spa. When an accessory has more than two states, press the button until it reaches the desired state.



WATER TEMPERATURE

The temperature shown at the top of the screen is the current water temperature. Use the Up and Down buttons to set the desired temperature. The set point will appear in blue at the bottom. After 3 seconds without any change to the set temperature value, the keypad will resume the normal display of messages. When the set value is lower than the current temperature Cooling to xx.x will appear. When the set value is higher than

the current temperature, Heating to xx.x will be indicated. Normally there is a short delay before the heating starts, during which Heating Suspended is indicated.



SETTINGS

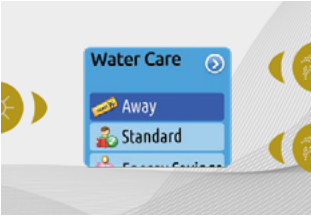
From the home page you can access the Settings, where you will find:

- Water care
- Heat Pump (if installed)
- Audio (if installed)
- in.clear-200 (linked version)
- Standby
- Maintenance
- Date & time
- Keypad
- Wi-Fi
- Config
- Restore
- About

Use the arrow keys to move up and down in the list. To select an option, press the lit button beside it (Light button).

At any point you can press the Settings button to return to the home screen.

USER INTERFACE - EASY 7



WATER CARE

The Water Care section will help you set up your ideal filtration and heating settings. Choose from Away, Standard, Energy Savings, Super Energy Savings, and Weekender, depending on your need. Use Light key to choose your setting. A checkmark will appear on the selected icon to confirm.

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.

** Default pack value*

WATER CARE MODES



AWAY:

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



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:

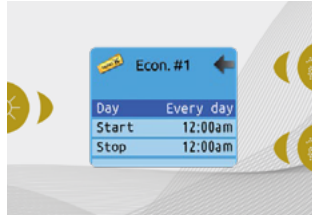
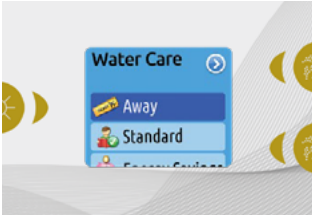
The spa will always be in economy mode during peak hours, every day of the week*.



WEEKENDER:

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

** Filtration will be reduced when the economy mode is active.*



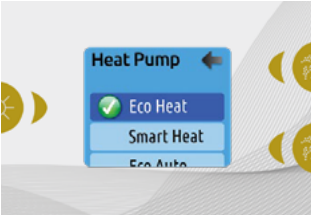
MODIFYING SCHEDULES

To see and/or modify a Water Care category, use the lit button to the right (Key 1) to open the selected Water Care menu.

Use the arrow keys to choose a schedule to modify (choice of economy and filtration schedules). Use the Light key to move between parameters.

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 Key 1 to go back. Ensure that you have selected the desired Water Care option in the main Water Care menu.

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.



HEAT PUMP

This menu allows you to change the regulation mode of your heat pump. You can choose from Eco Heat, Smart Heat, Eco Auto, Smart Auto, Cool and Electric.

A green checkmark indicates the currently selected regulation mode. To change the setting, simply navigate the menu using the arrow key and press the Light Key to choose the desired regulation mode.

HEAT PUMP MODES



ECO HEAT

In this mode, the heat pump is used as the unique source of heating. The heating element is kept off and the heat pump is not used to cool the water should its temperature rise above the current set point.



SMART AUTO

This mode borrows functionality from both Smart Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is activated only if there is a large temperature difference between the water and the set point.



SMART HEAT

This mode uses the heat pump as the main heating source. The heating element is turned on only if there is a large temperature difference between the water and the set point. The heat pump is not used to cool the water in this mode.



COOL

This mode uses the heat pump in cooling mode only. The heat pump is not used as a heating source and the heating element is never activated.



ECO AUTO

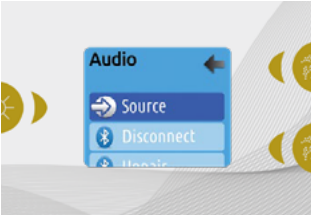
This mode borrows functionality from both Eco Heat and Cool modes and has the ability to select the proper Heat or Cool mode automatically according to the water temperature. The heating element is never activated in this mode.



ELECTRIC

This mode keeps the heat pump off and uses only the heating element to regulate water temperature.

USER INTERFACE - EASY 7



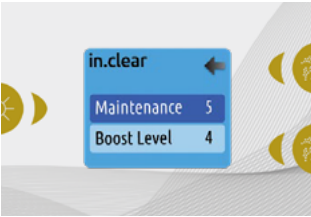
AUDIO

The Easy 7 can be used with the in.tune, in.stream or in.stream 2 audio systems. The Audio section in the Settings menu of an in.stream gives you the option to disconnect or unpair your Bluetooth enabled device when using the in.stream.

With version 7.00 and higher, it is also possible to select Source to use a device connected by auxiliary cable or Bluetooth wireless connection.

The in.stream 2 Settings menu gives you a Source selector, a Bluetooth disconnect option, an On/Off switch and an audio control on fader, balance and subwoofer. For more information on audio functions, see the in.tune, in.stream or in.stream 2 operation section.

The Audio option will only appear in the menu for keypads that are set up for an in.stream connection. The in.stream 2 is automatically detected at power-up.

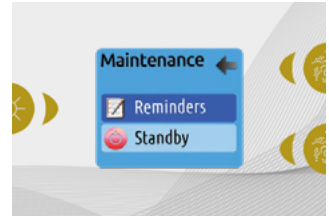


IN.CLEAR-200 / LINKED VERSION

The Easy 7 keypad can be used with the in.clear sanitization system. The in.clear section allows you to configure your maintenance settings and Boost level. For more information on maintenance and Boost settings, see the in.clear user manual.

Use the Up and Down keys to make your selection, then light key to confirm.

Use the Up and Down keys to change the maintenance or Boost value, and light key to confirm.



MAINTENANCE

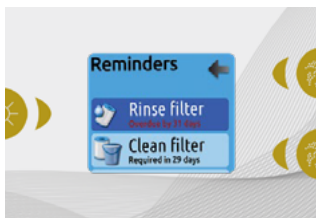
From the Settings page you can access the Maintenance menu, which gives you access to the following options:

- Maintenance reminders
- Standby

Use the Up and Down keys to make a selection, and Light key to confirm.

** If the maintenance value is modified by more than 2, a warning message will appear with an option to cancel or confirm the change.*

USER INTERFACE - EASY 7

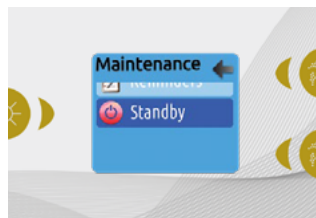


MAINTENANCE REMINDERS

The Easy 7 keypad will remind you of maintenance required on your spa, like rinsing or cleaning the filter. Each task has its own duration, based on normal use.

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

Use the Up and Down keys to move through the list.



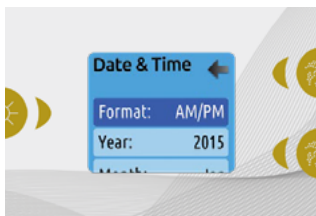
STANDBY

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

Once Standby mode has been activated a screen will appear to show that pumps are stopped. The normal spa page will return at the end of maintenance.

Press the Key 1 to leave Standby mode and restart the spa.

Note: In version 6.00 only, Standby mode is accessible directly from the Settings page.

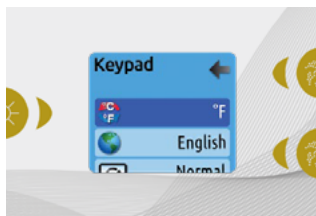


DATE AND TIME

Here you can adjust the time format, change the year, date and time. Use the arrows to choose the setting that you want to adjust, and select it by pressing the Light key.

Use the arrow buttons to change the parameters, and the Light key to move between parameters. Key 1 will take you back to the main Settings menu.

Note: In version 6.00 and earlier, only the day of the week can be changed, and not the year or date.

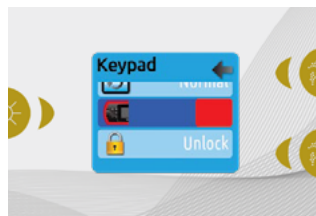


KEYPAD SETTINGS

In this section, you can change the temperature unit, language, display orientation, rim light color and keypad security. Note the spa pack must be configured accordingly to be able to change the rim light color.

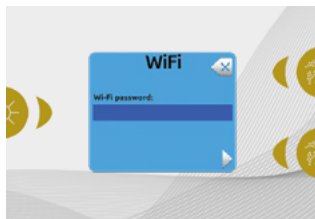
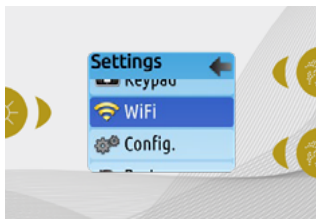
When you change the display orientation, the contextual options and arrow keys adjust to the chosen orientation. If you don't have any accessories installed on your spa, the Mode key can be used as a display orientation key. Simply press on it to change your orientation from normal to inverted, and vice versa.

Whether the display is inverted or not, the Mode and Menu keys remain unchanged, as well as the accessory keys in the main Spa menu.



With the Easy 7 equipped with a selectable rim light color module: If the "RGB backlight" option is enabled in the spa configuration an option will appear to allow selection of the keypad rim light color.

You can lock the keypad by selecting one of 3 security levels: Unlock, Partial or Full. The Partial level locks the set point adjustment and many options in the settings menu. The Full level locks all keypad functions. To unlock the keypad (either Partial or Full), press and hold the top right key for 5 seconds.



WiFi (IN.TOUCH ONLY)

For the WiFi menu to appear in the Settings menu your in.touch module must be equipped with software version 11.00 or higher. This menu allows you to connect your in.touch module to a WiFi network or to change its network.

For more details about other in.touch connection methods please see the in.touch techbook.

To connect your in.touch module to a wireless network, use the Up/Down keys to go to the WiFi option in the Settings menu and Light key to select it.

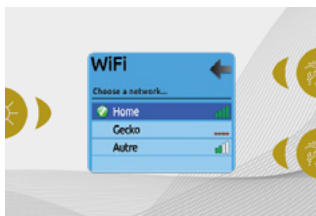
After a few seconds the available networks will appear on the screen, as well as their signal strength.

Use the Up/Down keys to move through the list. Select your network by pressing on Light key.

If the WiFi network is password protected enter it when prompted.

- Use the arrow keys to choose your letters and change the type of character (uppercase, lowercase, number, symbol).
- Use Key 2 to move the cursor forward
- Use Key 1 to backspace
- Use Light key to confirm

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



Once the in.touch module is connected to a WiFi network a check mark in a green circle will appear in the WiFi menu, and the network logo will change to green in Settings menu.

Note:

WiFi logo color in Settings menu corresponds to the in.touch connection state.

Yellow = not connected

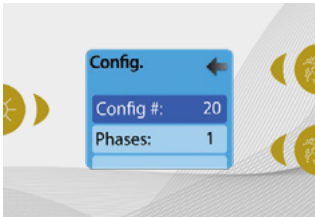
Green = connected to a network

Yellow with wait icon = connection attempt to a network

Red with wait icon = in.touch no longer detected

(in.touch must be reset before next connection attempt)

USER INTERFACE - EASY 7



CONFIG

Please do not make changes in the electrical configuration section unless you are a qualified electrician.

In this section you can change the low-level configuration, number of phases, input current and heat pump current.

Use Up/Down to move between parameters, and the Light key to select a parameter to change. Please refer to the techBook of your specific control system for spa for details about the low level settings.

Once you have changed the Number of Phases in the menu, you will be unable to use the Up/Down keys to return to the Low-level Configuration menu. Please go back and re-enter the Config menu.

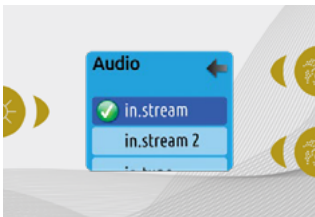
Note with version 15.00 and higher:
Depending on the pack configuration, a code may be required to change these settings. This code is "5555".

The table below shows the key assignment based on the accessories selected in your pack's low level configuration. Please refer to the Quick Start Card (QSC) for specifications to identify the low level configuration for your spa.

POSSIBLE KEY MAPPINGS

Low level configuration	Key 1	Key 2	Light
1 pump	Pump 1	–	Light
2 pumps	Pump 1	Pump 2	Light
2 pumps + blower	Pump 1	Pump 2 + Blower	Light
4 pumps*	Pump 1 & Pump 2	Pump 3 + Pump 4	Light
3 pumps + blower*	Pump 1 & Pump 2	Pump 3 + Blower	Light

*Only pump 1 can have a dual speed.

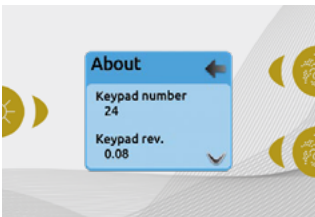


RESTORE/AUDIO CONFIGURATION

When you select Restore you will be asked to confirm your choice. Doing so will reset all settings to factory default.

Following a restore you will be asked to choose your audio source. Use the arrow key to choose between in.stream, in.stream 2, in.tune and no/other audio.

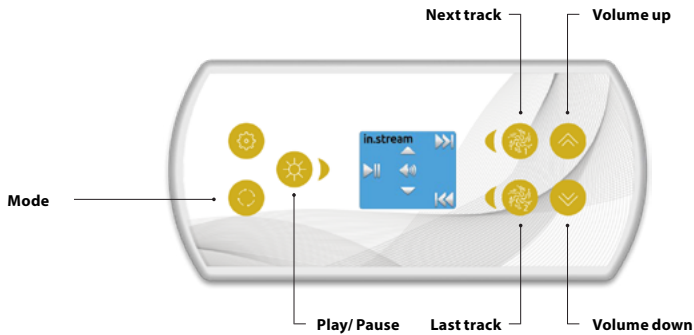
This should only be done at installation or when replacing a part.



ABOUT

This section shows information about the Easy 7 software number, and the revision numbers of the different components of your system.

IN.STREAM OPERATION



Press the Mode key to access your in.stream.

If you are using a device with Bluetooth technology, it must be connected for functions to work.

Play/Pause audio

Press the Play/Pause button to start or pause the audio.

Adjusting the volume

Press the Up or the Down key to increase or decrease the volume.

Turn power On/Off (version 7.00 and higher)

Press and hold the Play/Pause key for 3 seconds to turn the in.stream on or off.

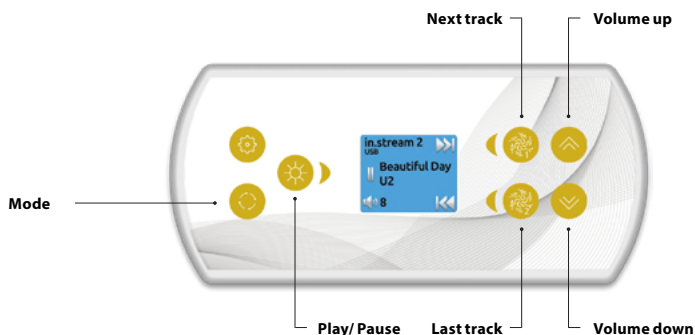
Changing tracks

Use the Last Track and Next Track keys to change tracks.

Disconnect or Unpair Bluetooth

These options can be found under the Audio section in the Settings menu.

IN.STREAM 2 OPERATION



Press the Mode key to access your in.stream 2.

If you are using a device with Bluetooth technology, it must be connected for functions to work.

Play/Pause audio

Press the Play/Pause button to start or pause the audio. This button is available for Bluetooth and USB only.

Adjusting the volume

Press the Up or the Down key to increase or decrease the volume

Turn power On/Off

This option can be found under the Audio section in the Settings menu.

Changing tracks

Use the Last Track and Next Track keys to change tracks or FM stations. This is not available with Aux source.

Disconnect

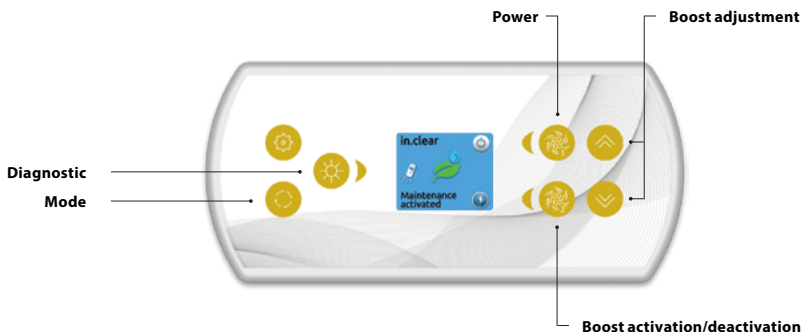
This option can be found under the Audio section in the Settings menu.

Fader, Balance and Subwoofer

These options can be found under the Audio section in the Settings menu.

IN.CLEAR FUNCTIONS

This menu is only available if an in.clear linked is detected.



Press on the Mode key to access your in.clear module.

This menu allows you to activate or deactivate your in.clear, to start or stop a Boost, and to enter diagnostic mode.

Turning the in.clear on/off

Press the power key to turn the in.clear on or off.

Control the Boost level

Press on the Boost activation/deactivation key to start a Boost, and again to cancel.

To adjust the Boost level use the arrow keys.*

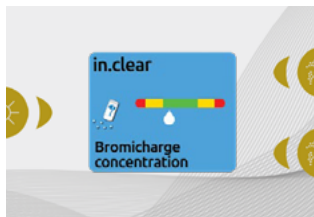
A message indicating that Boost mode is active is displayed at the bottom of the main screen for the duration of the Boost.

* See the in.clear user manual for more details about Boost levels.

Diagnostic Mode

Press on the Diagnostic key to start a BromiCharge concentration level test. To exit diagnostic mode press on the Diagnostic key again. The system will automatically exit after 15 minutes.

In diagnostic mode, the BromiCharge gauge indicates the approximate level of BromiCharge in the spa water. Do not add BromiCharge if the indicator is in the green zone.



When BromiCharge is added the indicator will move slowly to the right. When water is added to the spa the indicator will move to the left. To obtain a good level of BromiCharge** start the pumps and add the specified amount of BromiCharge** and allow 5 minutes for the indicator to adjust before adding more.

For optimal performance, aim for the middle of the green zone.

** For more information on adjusting your BromiCharge level see the in.clear user manual.

USER INTERFACE - EASY 7

ERROR MESSAGES

The list below shows the different error messages that can appear on the home screen. Refer to the troubleshooting and error codes section of the TechBook for your spa pack system.

Code	Message
HL	Warning! HL Error
FLO - L01 FLO - L02 FLO	FLO condition - Check filter, pump, blockage, air lock and water level
NO FLO	Persistent NO FLO, all off - Check filter, pump, blockage, air lock and water level
HR	Danger! Relay stuck
OH	Warning! Spa temp. high
Pr	Warning! Temp. probes defective
AOH	Internal pack temp. high
FLC	Flow switch closed
SP in	Input voltage issue
RH NC	Comm. error in.xm2 - in.therm
RH ID	in.xm2 - in.therm incompatible
SC ER	Learning mode error
F1	in.xm2 Fuse # 1 is blown
F2	in.xm2 Fuse # 2 is blown
F3	in.xm2 Fuse # 3 is blown
Hr	Danger! Thermal fuse error
UPL	The spa pack does not have valid software. Please insert valid in.stick to reprogram spa pack.
CFLO	No Flow condition (in.clear)
HiBr	Add fresh water to the spa (in.clear)
HiBr	Add fresh water to the spa (in.clear)
LoBr	Add BromiCharge to spa water (in.clear)
NoBr	Add BromiCharge to spa water (in.clear)
Comm	Verify cable connections (in.clear)
Supp	Connect power cord to 240 V source (in.clear)
HP	1-99 Heat Pump error 1-99!

USER INTERFACE - EASY 7

FEATURE MATRIX

The following table presents the features and/or options available for the Easy 7 keypad, and the earliest software version at which this feature/option is available. All versions greater than the earliest version continue to support the feature.

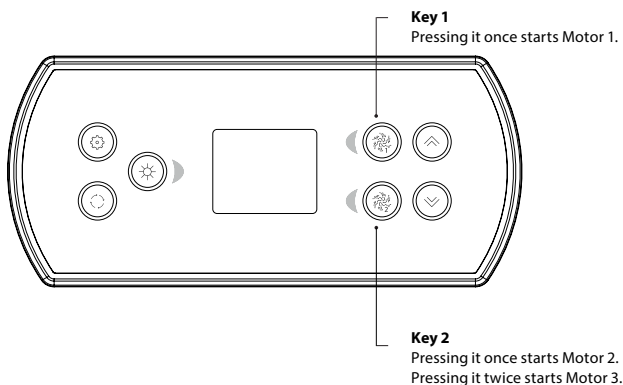
Keypad functions	Earliest support
Power	3.00
Main screen	3.00
Start or stop accessories	3.00
Water temperature	3.00
Settings	3.00
Water care	3.00
Water care modes	3.00
Modifying schedules	3.00
Audio	3.00
in.clear-200 (linked version)	13.00 **
Maintenance	
Maintenance reminders	7.00
Standby	6.00
Date and time	3.00
Keypad settings	
Temperature unit	3.00
Language	
English	3.00
Français	3.00
Español	6.00
Polski	6.00
Nederlands	6.00
Deutsch	6.00
Norsk	6.00
Svenska	6.00
Magyar	10.00
Italiano	10.00
Português	10.00
Česky	14.00
Display	7.00
Color	12.00
Security	15.00
Wi-Fi	7.00*
Electrical configuration	3.00
Factory reset/Audio config.	3.00
in.tune functions	3.00
in.stream functions	3.00
in.stream 2 functions	11.00
in.clear functions	13.00 **
in.mix functions	19.00
Heat pump functions	21.00
White zone 2	3.00
About	3.00

* Only available with the latest software version of the X and Y Series spa systems, and software version 11.00 or higher of the in.touch module.

** Only available with the latest software version of the X and Y Series spa systems.

USER INTERFACE - RIVER JET/USING THE TURBINE

OPERATING RIVER JET COUNTER CURRENT PUMP IN THE CASE OF EASY 7



The water direction switch is on the third motor.

USING THE TURBINE

SWITCHING THE TURBINE OFF AND ON:

Switch on the turbin pump icon on the k1000 Smart Touch after that the unit can be switched on by pushing the  button.
After 7-10 seconds, the turbine will start to operate at minimum speed.

The unit can be switched off by pushing the  button.
The speed of the turbine will decrease, and is switched off after 5-6 seconds, turn off the pump icon on the k1000 Smart Touch.

SPEED CONTROL:

-  the counter-current speed can be increased by pushing the button (7 speeds).
-  the counter-current speed can be decreased by pushing the button (7 speeds).
-  the control button lighting is active for 10 seconds after pressing a button.

Buttons **P1; P2; P3; P4** are not used for our pools.

WARNING!

When the turbine is switched on, the rotor is always moving at minimum speed at least.



**REMOTE CONTROL WITH
IP67 PROTECTION RATIN**

USER INTERFACE - 4 AND 1 SINGLE BUTTON PANEL

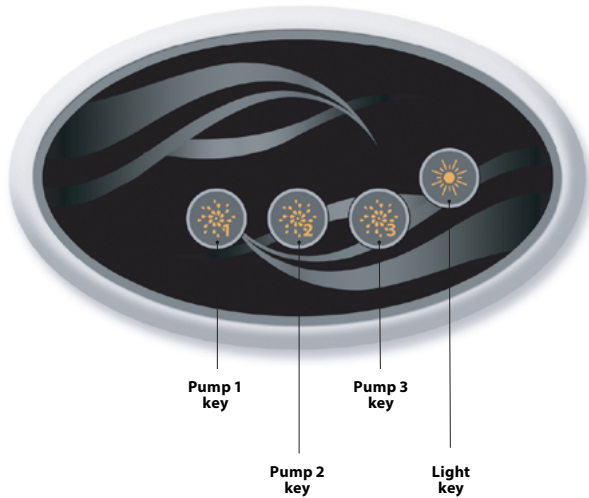
4 BUTTON PANEL

AUXILIARY KEYPAD FOR YOUR SPA

The 4 button panel is an auxiliary keypad designed to be installed as a second keypad on your spa.

It allows you to run the accessories while staying comfortably seated in your spa.

Its surface mount allows for an easy installation in different locations around your spa.



ONE SINGLE BUTTON PANEL

AUXILIARY KEYPAD FOR YOUR SPA

This one single button panel is also an auxiliary keypad designed to be installed as a second keypad on your spa.

It allows you to activate the spa pump associated to its respective section.

The panel surface allows for an easy installation in any location around your spa.



OPTIONAL ACCESSORIES - AQUASOUL PRO

AQUASOUL PRO

AUDIO STATION FOR SPAS



Aquasoul Pro audio system offers you the perfect means to bring music into your spa. Aquasoul Pro is simple to install and compatible with numerous audio sources. For example, you may connect Aquasoul Pro to an iPod using the auxiliary audio input or play music wirelessly using a Bluetooth mobile device. Listen to music in MP3 format saved on a USB flash disk or tune in to an FM station of your choice using the Aquasoul Pro integrated FM receiver. Depending on the configuration used, Aquasoul Pro can handle up to 4 speakers and one subwoofer.

The audio station can be used to charge most mobile devices on the market with its onboard USB charger controller.

Powered with its own internal universal power supply, Aquasoul Pro can be used in any place in the world. All the electronics circuits are contained in a innovatively designed and splashproof plastic enclosure.

Aquasoul Pro is equipped with state of the art class D audio amplifiers. This type of amplifier is very power efficient and dissipates much less heat than any comparable audio system for use in spa.

Depending on the selected configuration, Aquasoul Pro conveniently lets you control music from the main keypad or may be used as a stand-alone.

Main characteristics

- Fully splashproof (IPx5)
- Integrated universal power supply
- 1 auxiliary input
- Compatible USB port
- Integrated FM receiver with external antenna
- Bluetooth receiver
- Mobile device USB charger controller
- Up to 4 speakers and one subwoofer

OVERVIEW

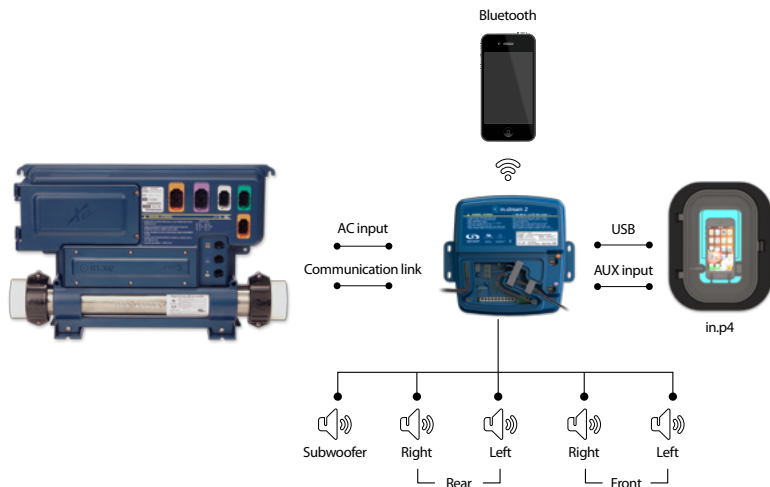


OPTIONAL ACCESSORIES - AQUASOUL PRO

Depending on the chosen configuration, Aquasoul Pro can support up to 4 speakers, 1 subwoofer, an auxiliary input, a USB connection with 1A charging capability, FM radio receiver and Bluetooth streaming.

The in.p4 waterproof enclosure, which provides protection to your iPod or smart phone, is available as an option.

With a compatible keypad, you will have full control over the Aquasoul Pro features from inside of your spa.



CONNECTIONS

PREPARATION



TO PREVENT ELECTRIC SHOCK HAZARD, DO NOT CONNECT TO MAIN POWER SUPPLY WHILE THE COVER IS REMOVED.



Remove the cover screws from the front of the apparatus with a Phillips screw driver.



Remove cover and put aside the foam gaskets located in the wire channel.

OPTIONAL ACCESSORIES - AQUASOUL PRO

CONNECTIONS

CONNECTING THE SPEAKERS AND SUBWOOFER



The speakers and the subwoofer output terminals are located on the 10-pin MATE-N-LOK connector marked "SUB R-R R-L F-R F-L"

Connector pins	Identification
1	Front Left speaker (+)
2	Front Left speaker (-)
3	Front Right speaker (-)
4	Front Right speaker (+)
5	Rear Left speaker (+)
6	Rear Left speaker (-)
7	Rear Right speaker (-)
8	Rear Right speaker (+)
9	Subwoofer (+)
10	Subwoofer (-)



CAUTION: AQUASOUL PRO DOES NOT COME WITH SPEAKERS AND ASSOCIATED WIRING. THE INTERCONNECTION BETWEEN THE AUDIO SYSTEM AND THE SPEAKERS MUST BE "CLASS 2 WIRING" AND BE DONE BY QUALIFIED PERSONNEL.

To connect your own speaker cable or to connect the optional adaptor, insert the 10-pin connector into the appropriate connector. Route the wires through the molded strain relief channel as illustrated.

OPTIONAL ACCESSORIES - AQUASOUL PRO

CONNECTIONS

PAIRING WITH A BLUETOOTH ENABLED DEVICE

Aquasoul Pro can play music from any device equipped with Bluetooth wireless technologies, however, you must pair your mobile device to the audio receiver in order to do so.

The system is ready to pair when it is not already connected to another device. To pair your device, make sure that you are close enough to the Aquasoul Pro, that it is turned on and that it is set in Bluetooth mode.

FOLLOW THESE STEPS TO PAIR YOUR DEVICE

1. Open the Bluetooth settings on your device. The location of the settings will depend on the device you are using.
2. Make sure Bluetooth is on.



3. Select "in.stream 2" in the list of discoverable Bluetooth devices detected nearby.
4. When prompted, enter 5555 as the PIN Code.



NOTE: In basic configuration (not connected to a keypad or controller), Aquasoul Pro is set in Bluetooth mode. Otherwise, please refer to your specific keypad operating manual for details on the Aquasoul Pro functions.

5. Once the pairing is done, select in.stream 2. When "connected" is displayed, Aquasoul Pro will be ready to start playing the selected audio.



Note: If the device moves out of range and loses connection, it should reconnect automatically as soon as it is close enough. This should happen without having to go through the menu again.

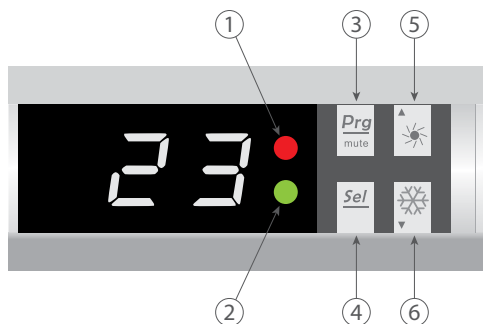
Aquasoul Pro will keep up to 8 devices in its memory. If one of the last three connected devices is in range and has its Bluetooth turned on, it will automatically connect to Aquasoul Pro.

If multiple devices are within range and have already been paired with Aquasoul Pro, priority will be given to the device that was first detected in the Aquasoul Pro memory.

OTHER ACCESSORIES - THE HEAT PUMP (OPTIONAL)

For further information see the original user manual of the heatpump. It shows the installation and technical details.

CONTROL PANEL



- 1. Heating mode indicator
- 2. Cooling/Defrost mode indicator
- 3. ON/OFF button
- 4. Mode button
- 5. Plus (+) button
- 6. Minus (-) button

OPERATING MODE SELECTOR

⚠ BEFORE STARTING, ENSURE THAT THE FILTRATION PUMP IS WORKING AND THAT WATER IS CIRCULATING THROUGH THE HEAT PUMP.

Prior to setting your required temperature, you must first select an operating mode for your remote control:



HEATING MODE

Select the heating mode for the heat pump to heat the water in your spa.



COOLING MODE

Select the cooling mode for the heat pump to cool the water in your spa.

OTHER ACCESSORIES - THE HEAT PUMP (OPTIONAL)

HEATING MODE

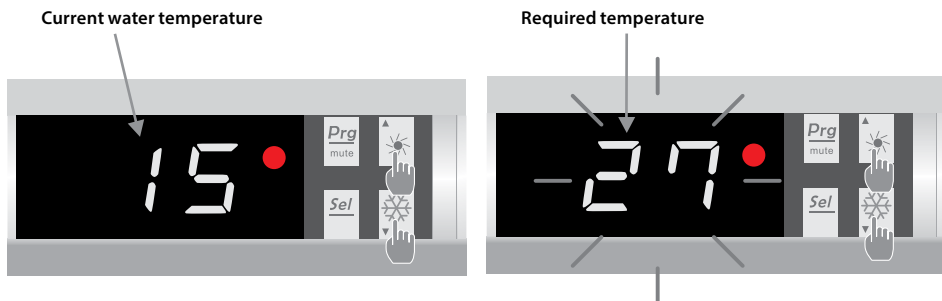
Step 1: Press  to switch on your pump.

Step 2: Press  to switch from one mode to another until the heating mode is displayed.

Step 3: Using buttons  and  select the required temperature.

EXAMPLE:

If the current temperature is 15°C, default setting temperature is 27° required temperature is 30°C.



USEFUL INFORMATION ABOUT HOW THE HEATING MODE OPERATES

When the incoming water temperature is less than or equal to the required temperature (setpoint temperature) -X°C, the heat pump will switch to heating mode. The compressor will stop when the temperature of the incoming water is greater than or equal to the required temperature (setpoint temperature).

Indicators for adjustment range X and Y

X: adjustable parameter from 1° to 10°C, default setting is 3°C. (Parameter "H")

OTHER ACCESSORIES - THE HEAT PUMP (OPTIONAL)

COOLING MODE

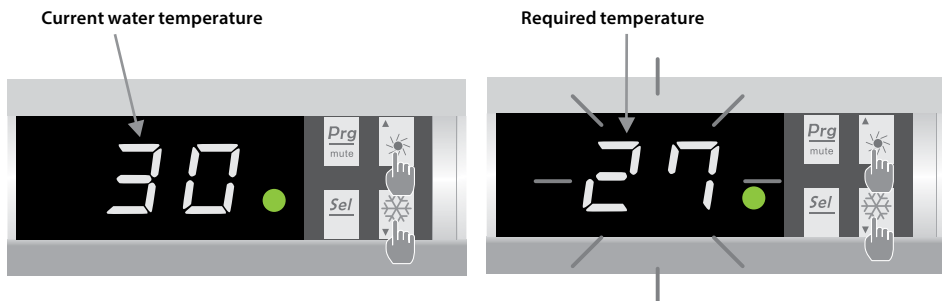
Step 1: Press  to switch on your pump.

Step 2: Press  to switch from one mode to another until the cooling mode is displayed.

Step 3: Using buttons  and  select the required temperature.

EXAMPLE:

If the current temperature is 30°C, default setting temperature is 27° required temperature is 15°C.



USEFUL INFORMATION ABOUT HOW THE COOLING MODE OPERATES

When the incoming water temperature is greater than or equal to the required temperature (setpoint temperature) + X°C, the compressor will switch to cooling mode. The compressor will stop when the temperature of the incoming water is less than or equal to the required temperature (setpoint temperature).

Indicators for adjustment range X

X: adjustable parameter from 1° to 10°C, default setting is 3°C. (Parameter "H")

OTHER ACCESSORIES - THE HEAT PUMP (OPTIONAL)

STATUS VALUES AND ADVANCED SETTINGS



WARNING: This operation is used to assist servicing and future repairs.
The default settings should only be modified by an experienced professional person.

THE SYSTEM'S SETTINGS CAN BE CHECKED AND ADJUSTED VIA THE REMOTE CONTROL BY FOLLOWING THESE

Step 1: Keep pressing  until you enter the settings verification mode.

Step 2: Press  and  for see the parameters.

Step 3: Press  to select the setting to be modified.

Note, some settings cannot be modified. Consult the settings table for further information.

Step 4: Press  and  to adjust the setting value.

Step 5: Press  to set the new value.

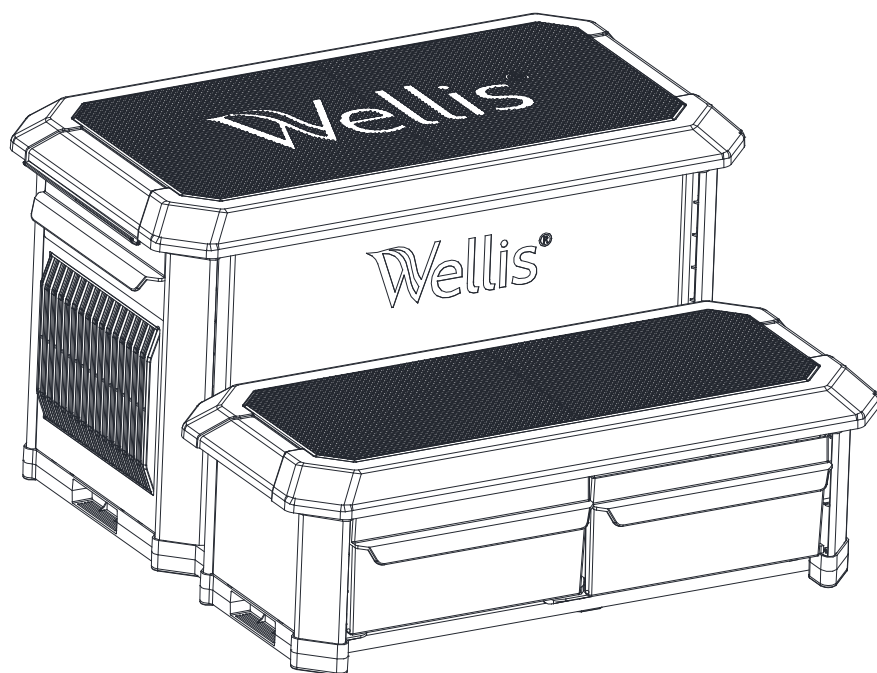
Step 6: Press  to return to the main screen.



PARAMETERS TABLE

N°	Description	Range value	Default value	Comment
A	Water temperature	-19~99°C		Actual data
b	Evaporator temperature	-19~99°C		Actual data
c	Ambient air temperature	-19~99°C		Actual data
d	Setting temperature in heating mode	15~40°C	27°C	Adjustable
E	Defrosting mode activation timer	10~80 min	40 min	Adjustable
F	Defrosting mode maximum duration	5~30 min	8 min	Adjustable
G	Setting temperature in cooling mode	8~28°C	12°C	Adjustable
H	Adjustment of temperature difference for restart	1~10°C	3°C	Adjustable
J	Automatic restart	0=OFF, 1=ON	1	Adjustable
O	Antifreeze protection – low air temperature	-10~15°C	-5°C	Adjustable
P	Evaporator temperature to enter defrosting mode	-19~0°C	-3°C	Adjustable
U	Evaporator temperature to exit defrosting mode	1~30°C	20°C	Adjustable
t	Reserved - Do not modify			Reserved
L	In.grid	0=OFF, 1=ON	1	Adjustable

For further information see the original user manual of the heatpump. It shows the installation and technical details.



SMART STEP MANUAL (OPTIONAL)

SAFE USE



To reduce the risk of drowning, falls, paralysis, electrocution, or other serious injury or death:

Use step properly.

Use for intended purpose only.

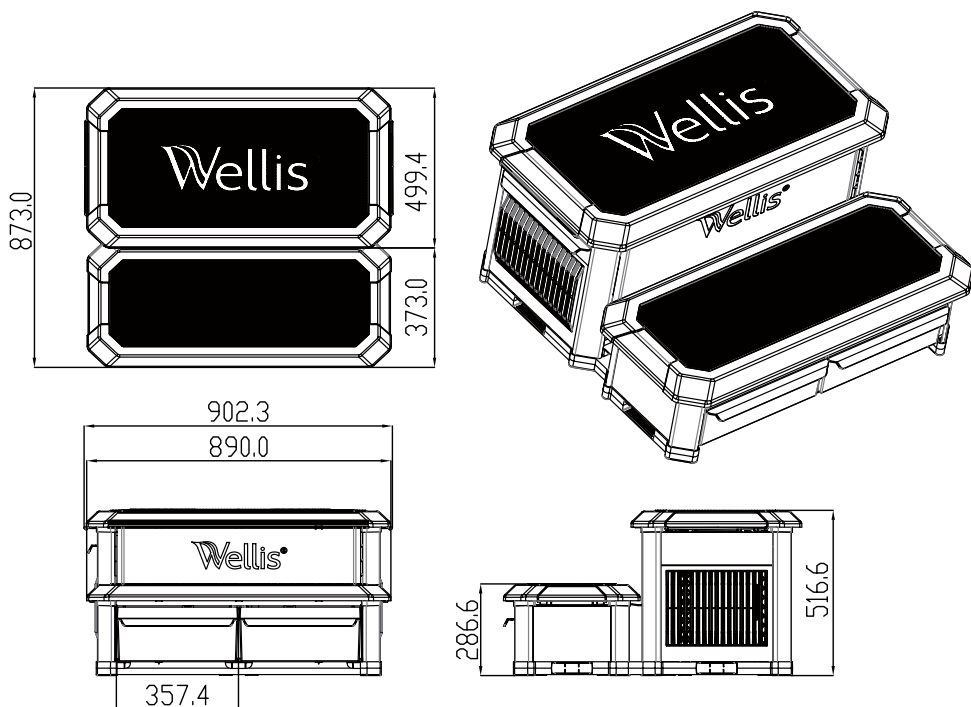
- **No diving or jumping from steps** - shallow water, risk of paralysis or death.
- **ONE PERSON ON THE LADDER/STAIR AT A TIME.**
- **Illuminate the steps** when using the spa at night.

Weight limit - 300 lbs maximum. Exceeding maximum weight may cause the step to fail.

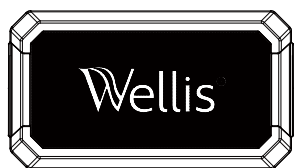
Secure the spa when not in use. - (for example, with a locked cover or secure gate) - refer to local codes.

Watch children at all times when they are in or around water to help prevent drowning.

BE SURE AND SAFE. - The manufacturer **IS NOT** responsible for improper assembly, installation and use.

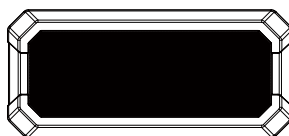


SMART STEP MANUAL (OPTIONAL)



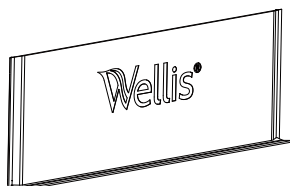
WE0135-1

1x



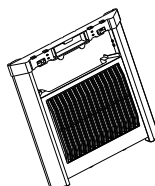
WE0135-2

1x



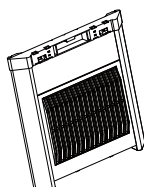
WE0135-5

1x



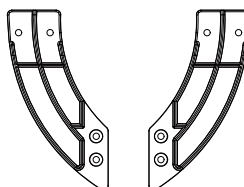
WE0135-6

1x



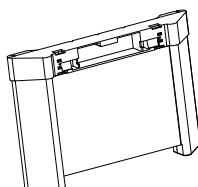
WE0135-7

1x



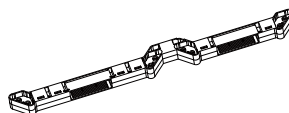
WE0135-10&11

1x



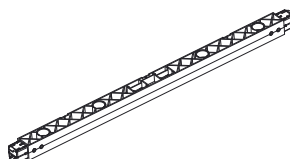
WE0135-13

2x



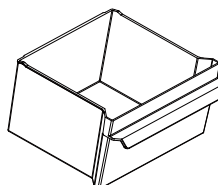
WE0135-14

2x



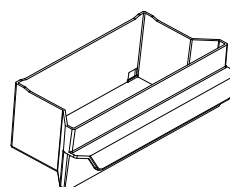
WE0135-15

11x



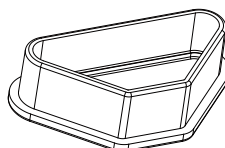
WE0135-16

2x



WE0135-17

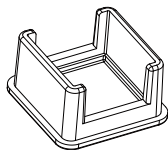
1x



WE0135-18

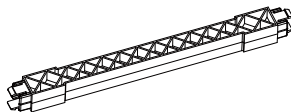
8x

SMART STEP MANUAL (OPTIONAL)



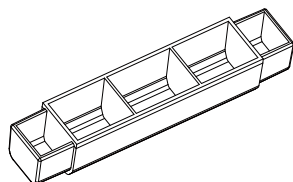
WE0135-19

5x



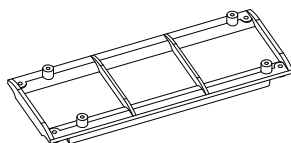
WE0135-20

2x



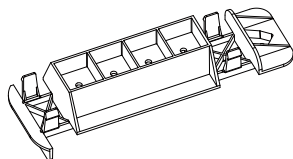
WE0135-21

2x



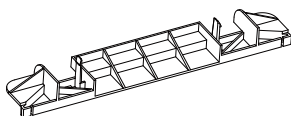
WE0135-22

2x



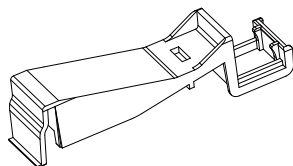
WE0135-23

2x



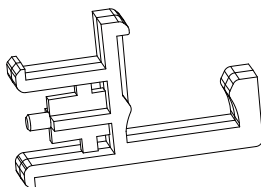
WE0135-24

2x



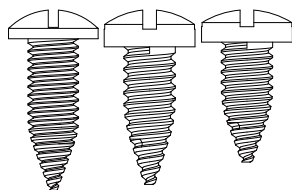
WE0135-25

6x



WE0135-26

8x



M4.2X14

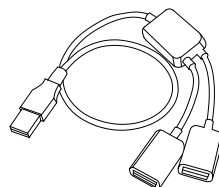
16x

M3X14

4x

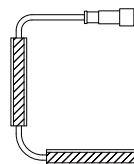
M3X10

16x



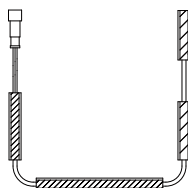
USB

1x



LED lights
Three paragraphs

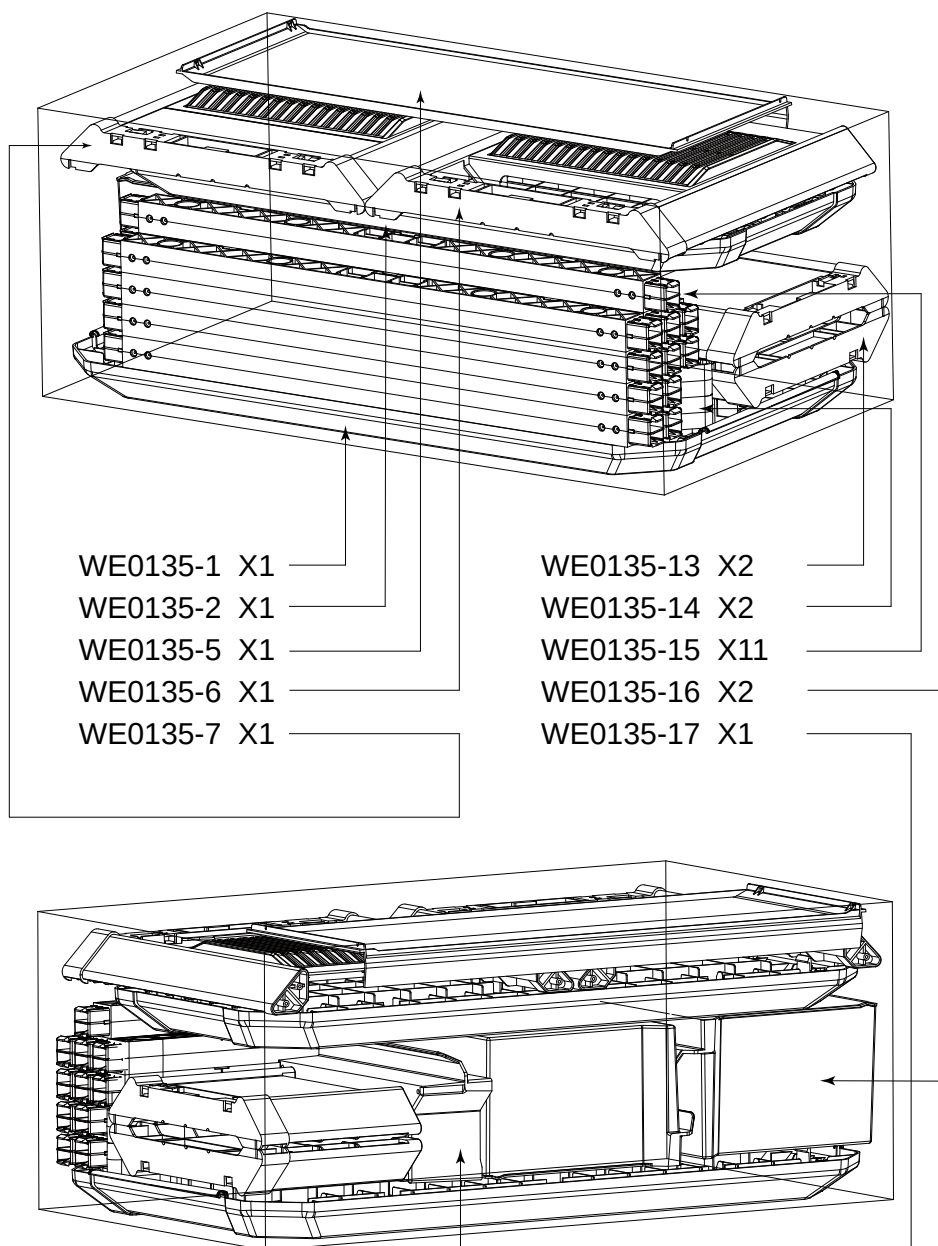
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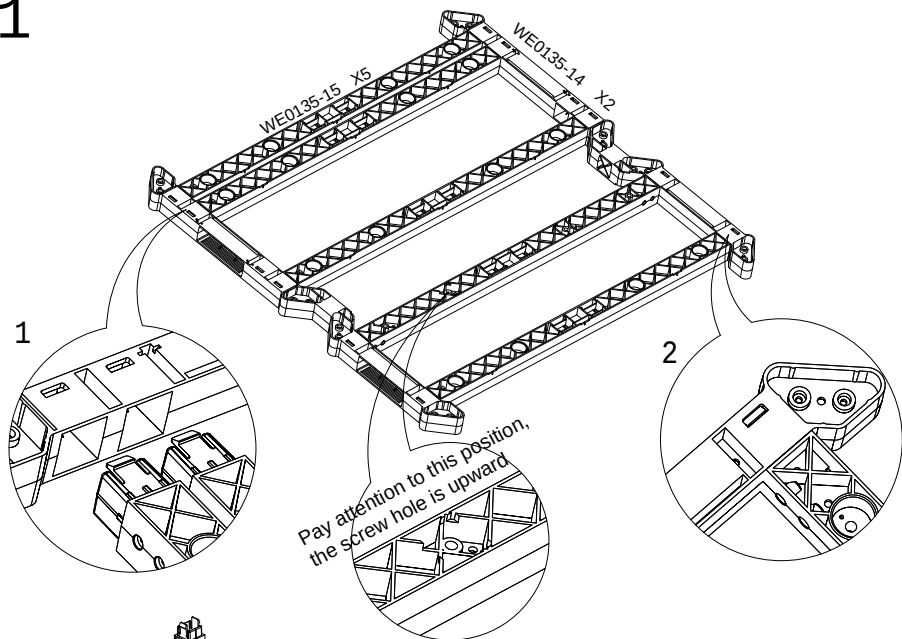
LED lights
Four paragraphs

1x

SMART STEP MANUAL (OPTIONAL)

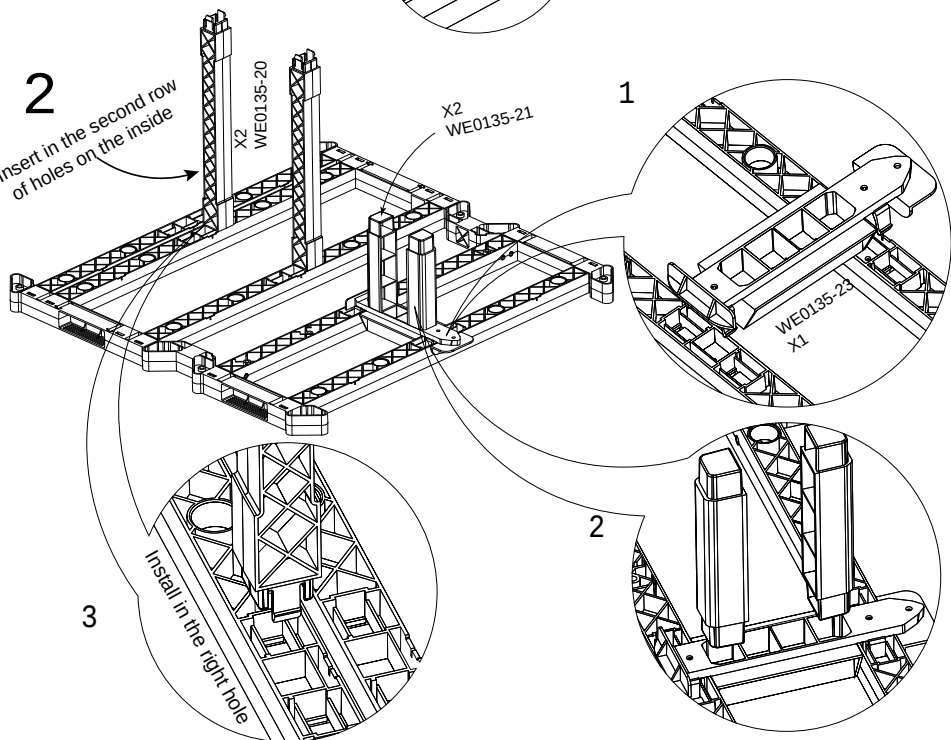


1



2

Insert in the second row of holes on the inside

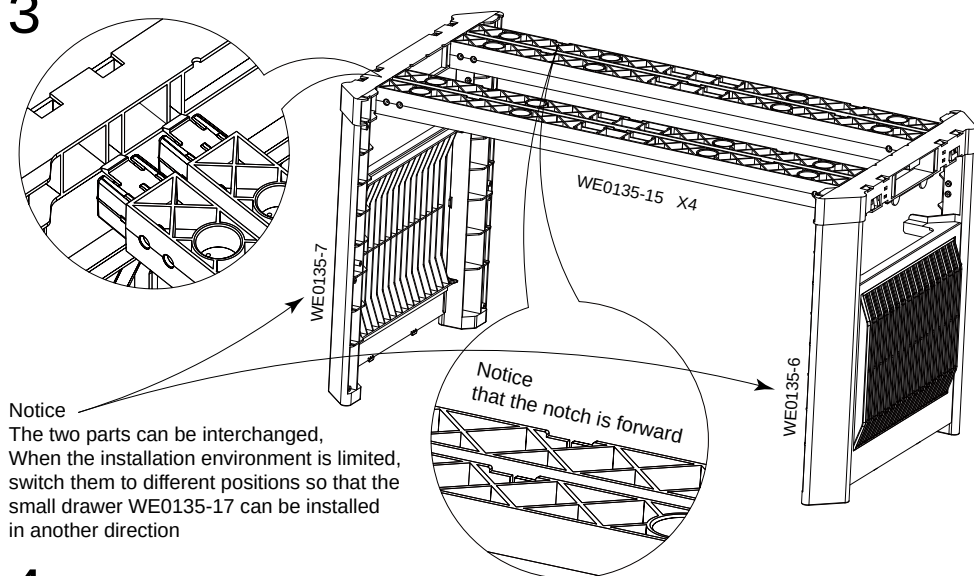


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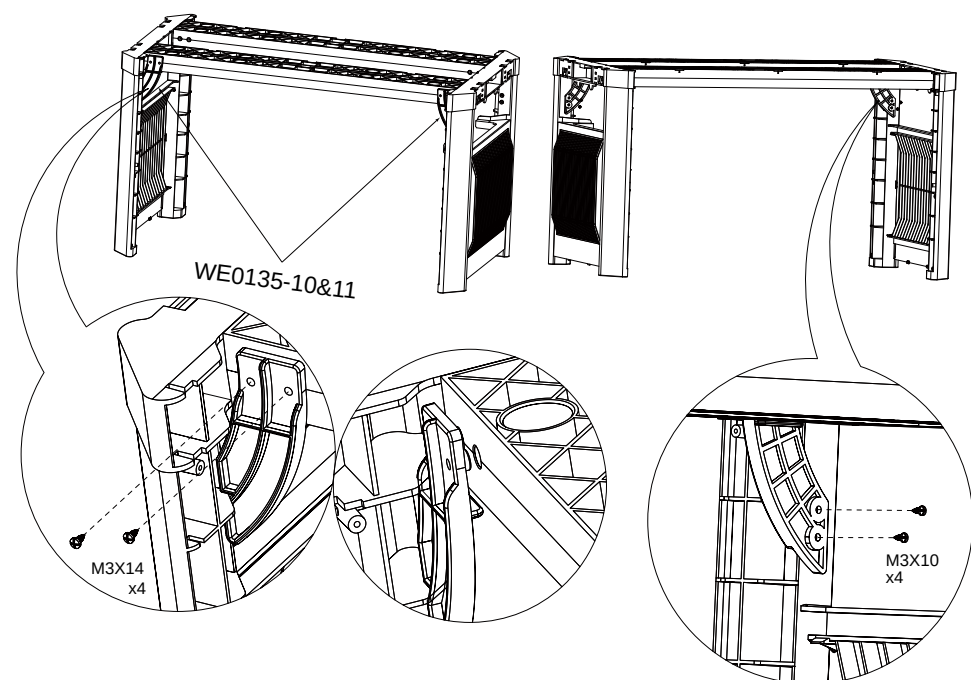
Install in the right hole

2

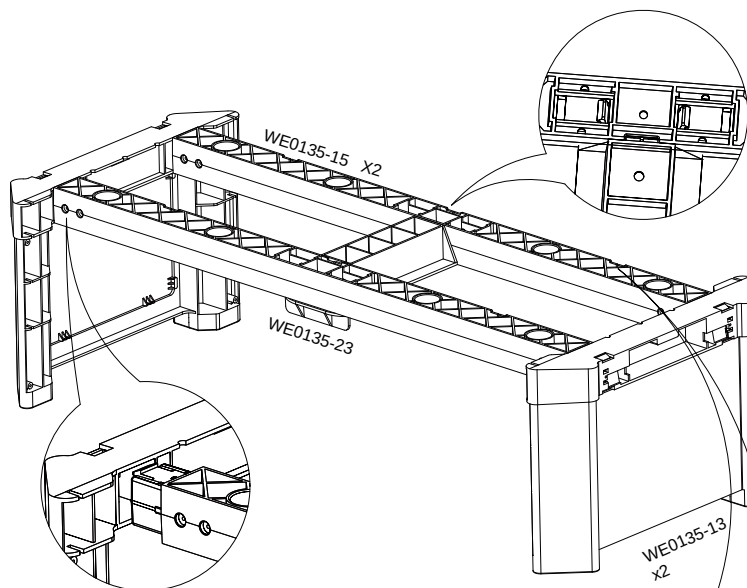
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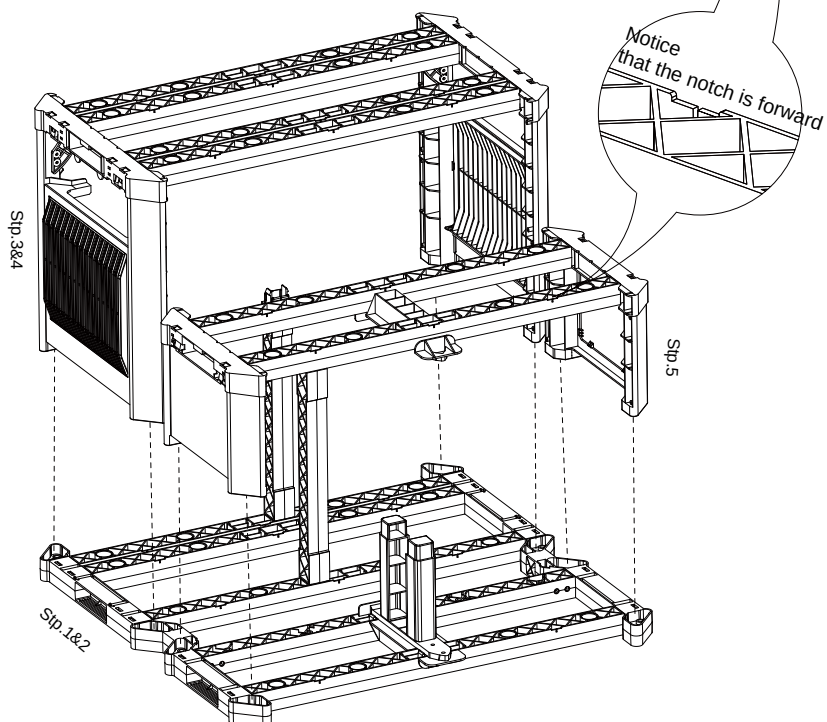
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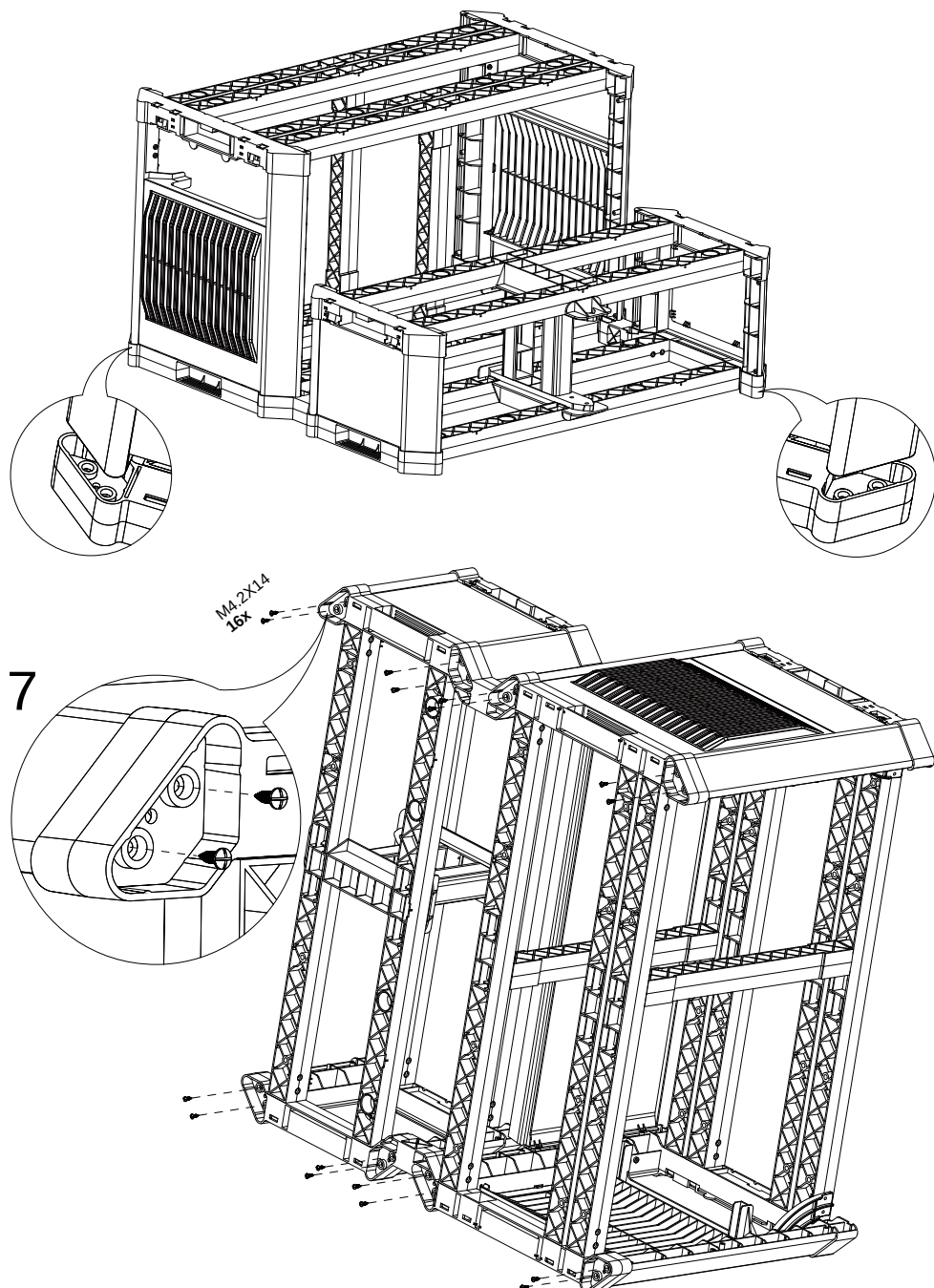
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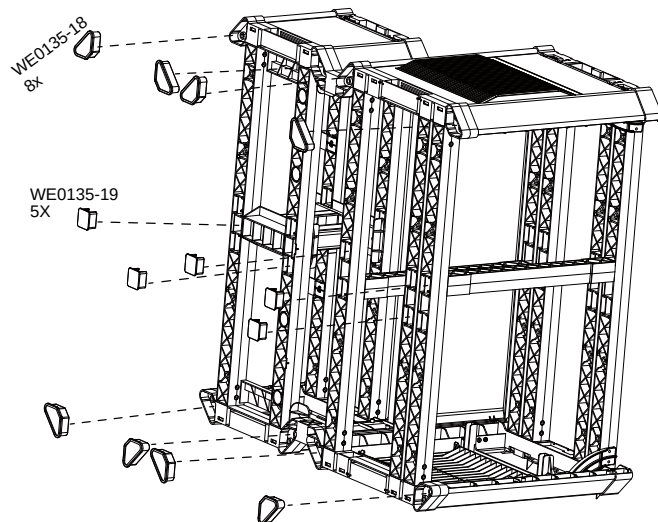
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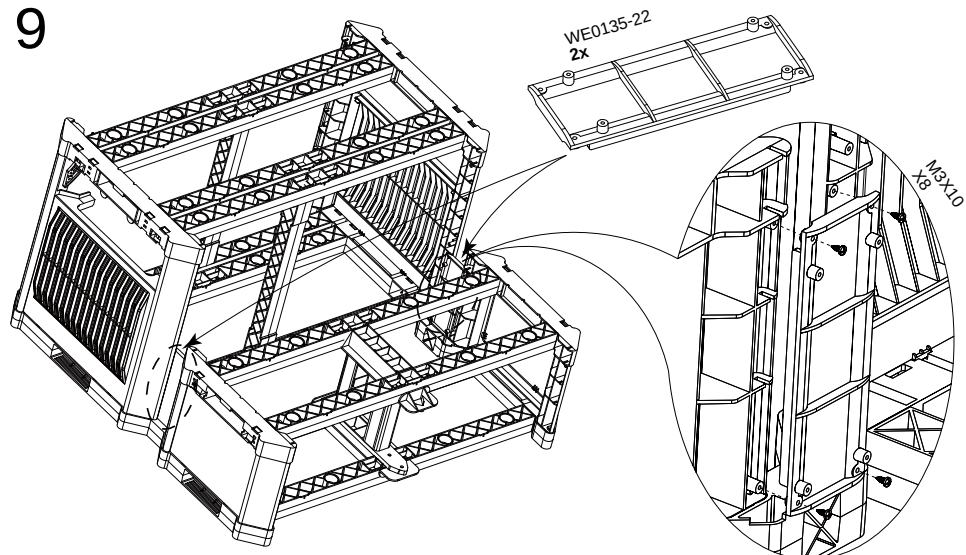
SMART STEP MANUAL (OPTIONAL)



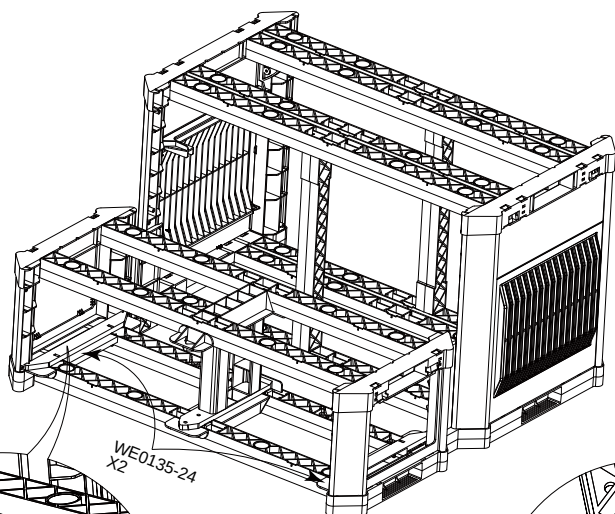
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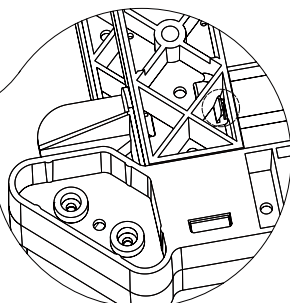
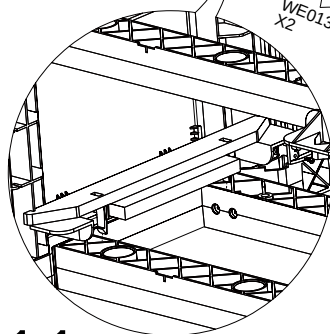
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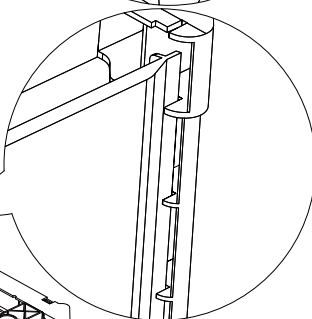
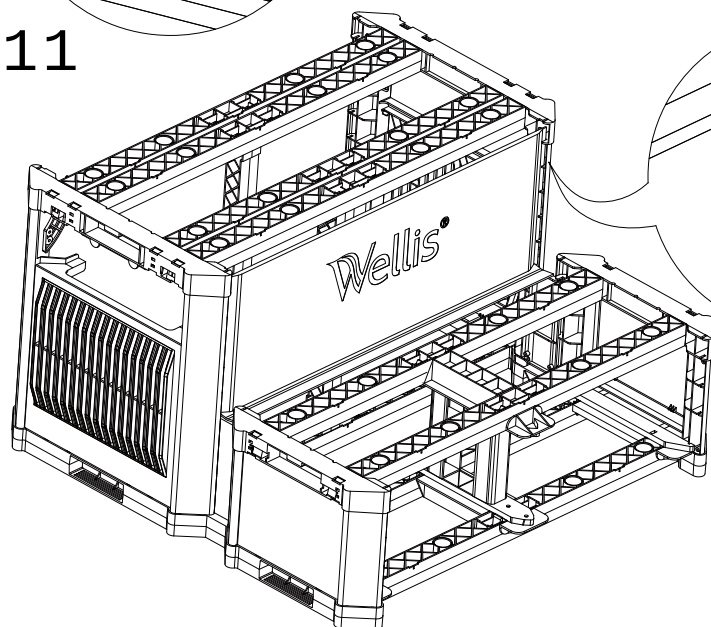
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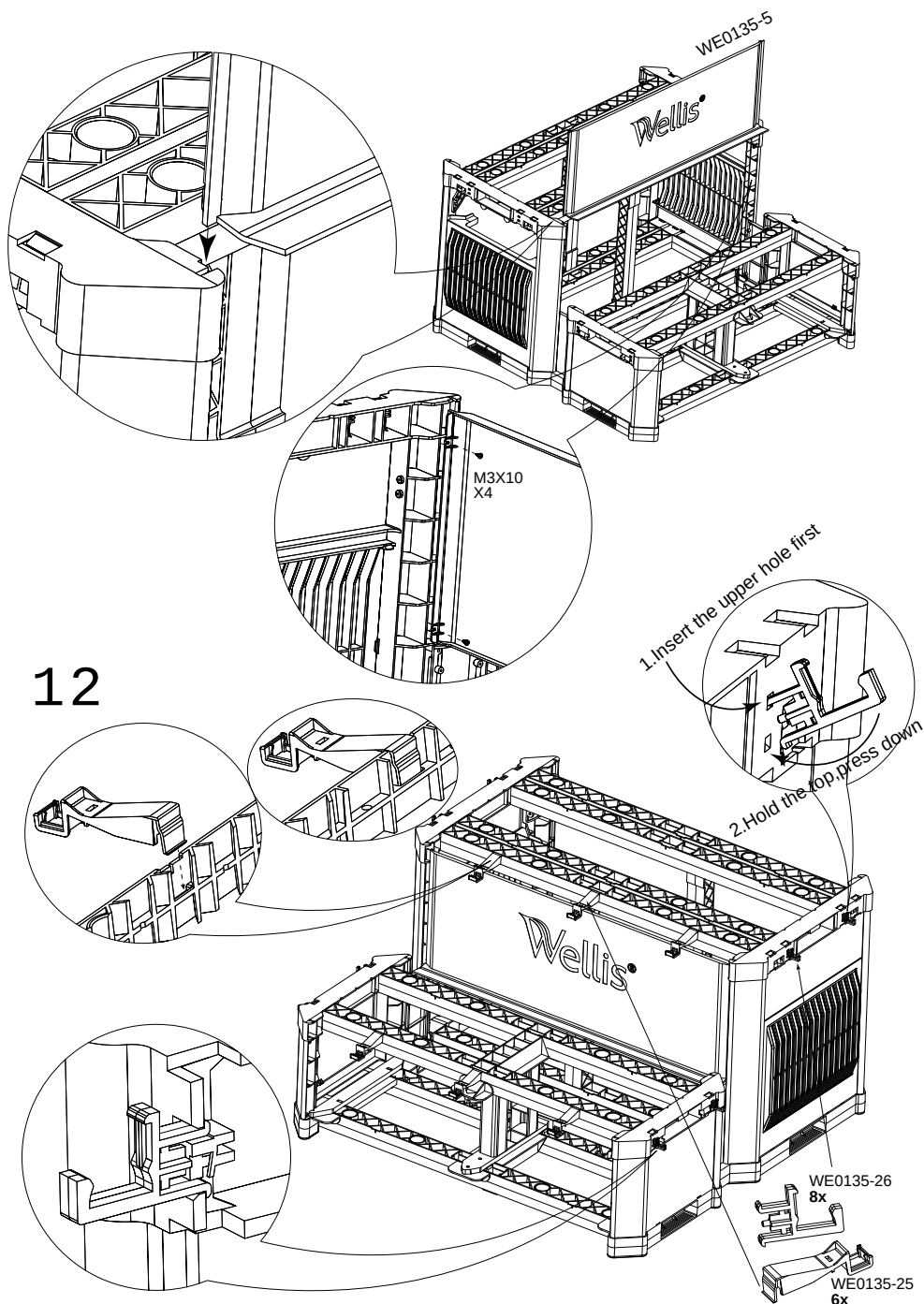
WE0135-24
X2



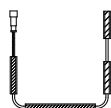
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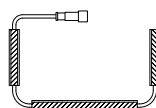
SMART STEP MANUAL (OPTIONAL)



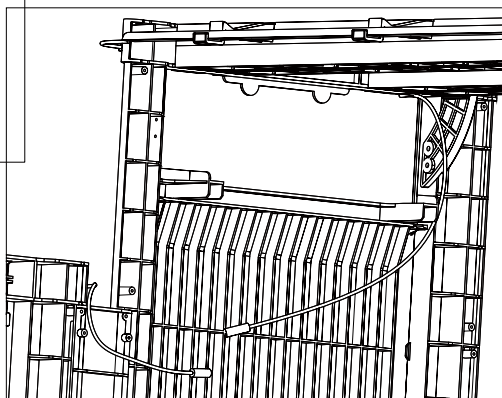
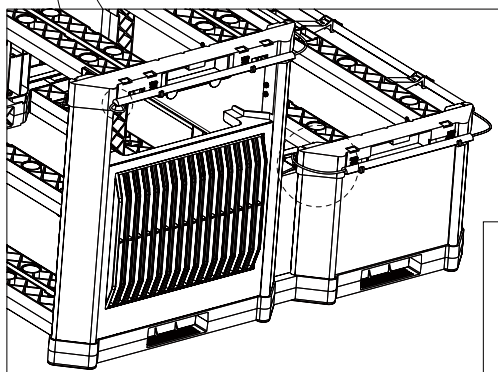
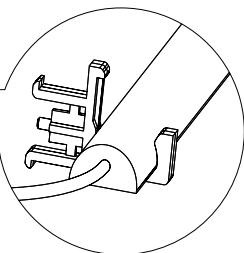
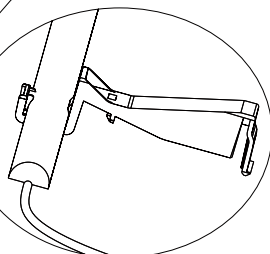
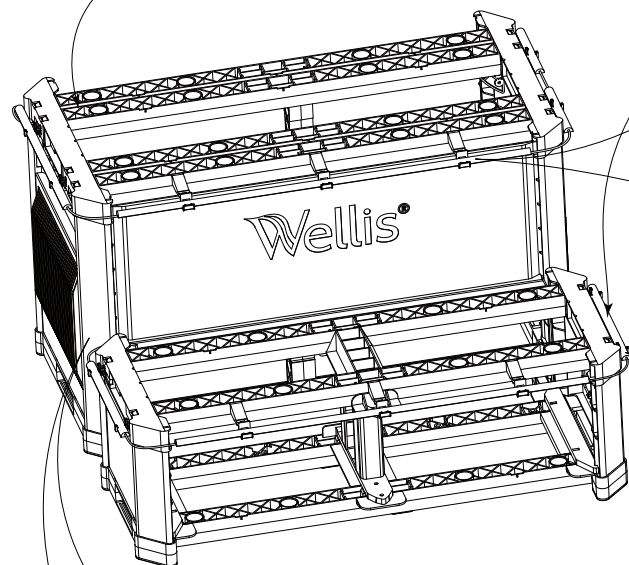
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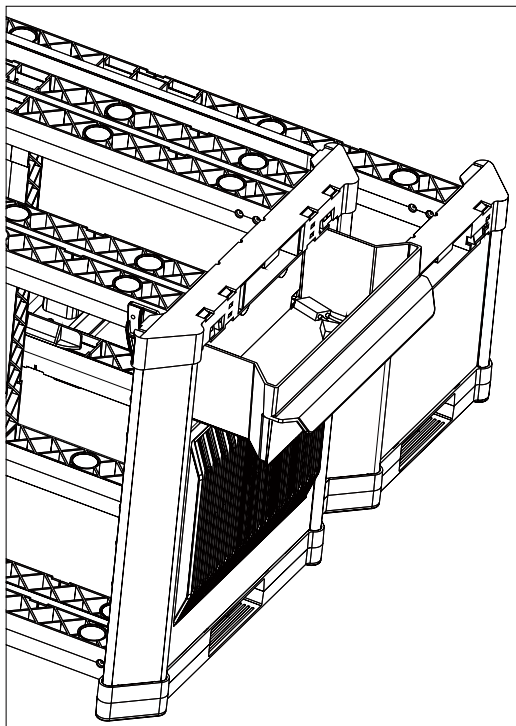
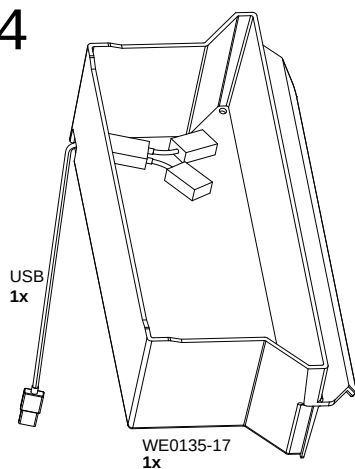
LED lights
Four paragraphs
1x



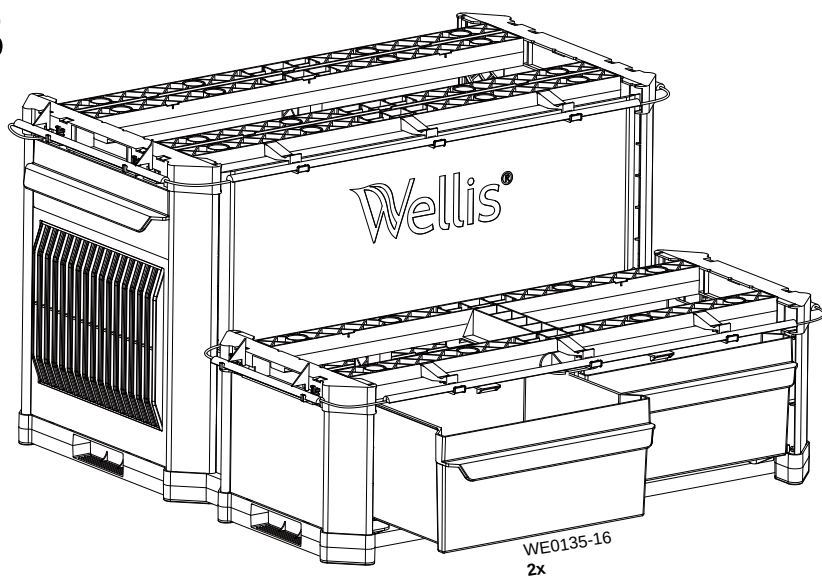
LED lights
Three paragraphs
1x



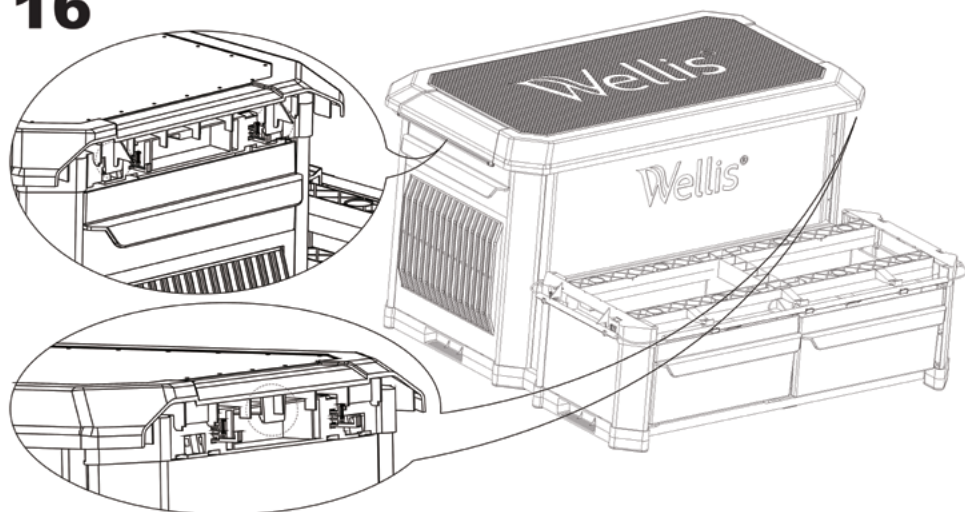
14



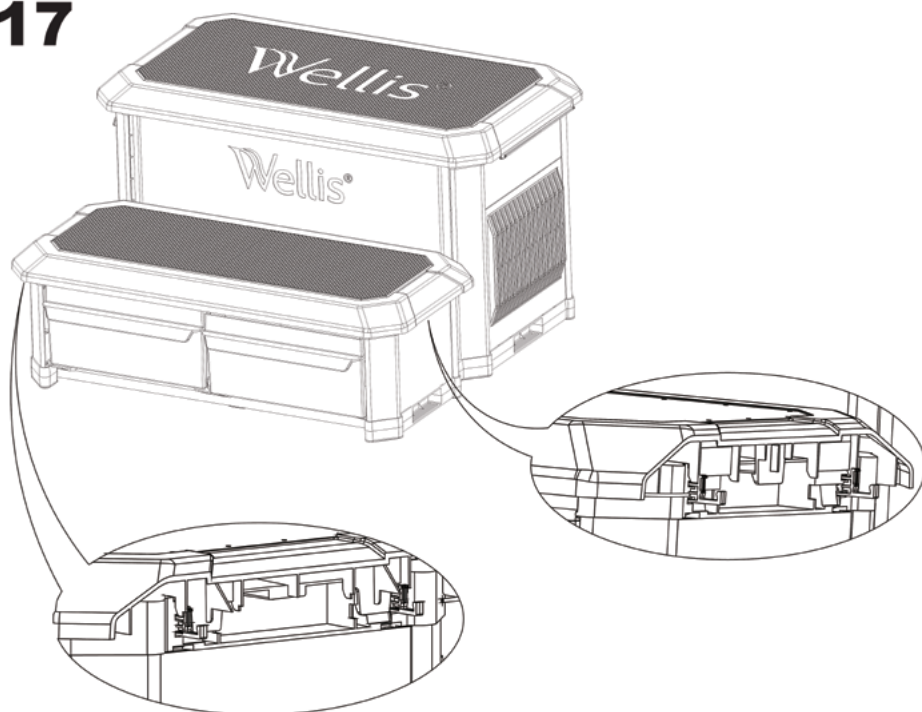
15



16



17



OTHER ACCESSORIES - IN.GRID

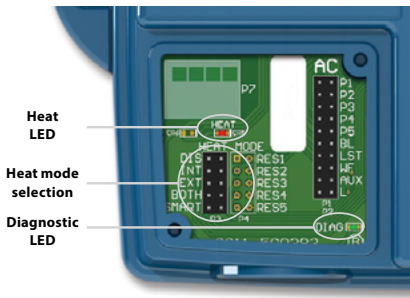
Heat Mode Operations

You can choose between four different water regulation modes available. Your in.grid is automatically detected by the spa control system at power up. It will be ready to use with your preferred heat mode one minute following power up.

The relay contacts of the in.grid will be closed if the external heating system is activated. Otherwise, the relay contacts are open.

Your desired heat mode must be set by adding a jumper on one of the five (5) different positions.

***Note:** Your heat mode selection can be changed with the in.touch 2 app on your mobile device. On your app, any new selection will override the jumper setting of the in.grid. The in.touch 2 app will automatically detect the in.grid presence and will adapt its menu configuration as required.



Five available heat modes are offered with in.grid:

1- DIS (DISABLED)

Use this mode if the spa configuration does not have any external heating system and only the single switch functionalities are used. This will avoid in.touch 2 application on a mobile device to display the Heat Mode Selection menu*. The spa controller will regulate the water temperature using the standard resistive heater. The single button switches will control the different spa accessories according to the AC jumper selections.

IMPORTANT: This mode can only be set with the heat mode jumpers.

2- INT (INTERNAL)

This mode provides an easy way to revert back to standard water regulation using the internal heater in case of problem with the external heating system.

3- EXT (EXTERNAL)

Use this mode for a maximum energy saving purpose. The spa control system will only use your external heating system to regulate the water temperature. In normal operation, the internal heater will never be activated.

Freeze Protection

Freeze protection has been added because EXT (EXTERNAL) mode does not allow the activation of the internal heater. In cold weather, if it becomes impossible to keep the water over freezing point, the help of the internal heater will then be needed. This is the only time the freeze protection will come in.

At any time, if the water temperature drops to 40°F (4.5°C), the resistive heater will give a boost to avoid freezing. The freeze protection will stay active until water temperature reaches the minimum allowed set point (usually 59°F / 15°C). Normal EXT mode will resume functioning thereafter.

4- BOTH (BOTH SYSTEMS ALL AT ONCE)

The spa control system will always use the external heating system AND the internal heater simultaneously to regulate the water temperature; they are both activated or deactivated at the same time.

5- SMART (ENERGY SAVINGS)

The spa control system will always use the external heating system to regulate the water temperature. If the temperature falls too far below your set point (-2.5°F), the internal heater will be activated to help your external heating system reach the set point.

Troubleshooting

DIAGNOSTIC LED

The diagnostic LED will help you with the status of the connection between the spa control system and the in.grid.

Blinking light: Spa control system not detected, not compatible or in Disable mode if one of your single switches doesn't operate properly.

Solid light: Spa control system detected

No light: Power Off

HEAT LED

Solid light: Relay contacts close and external heating system on.

No light: Relay contacts open and external heating system off.



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 prepared 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.

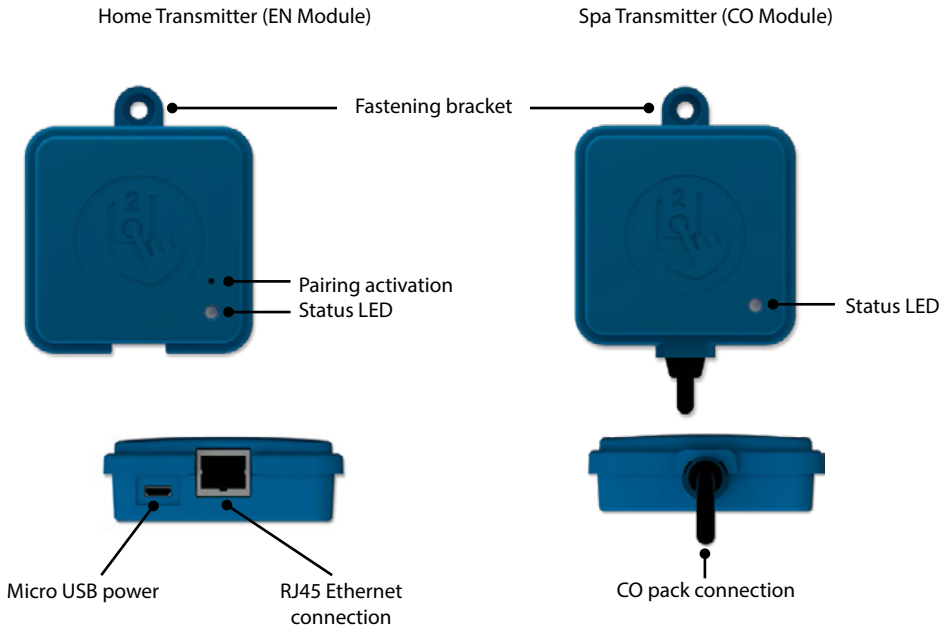
Strong and long range communication signal

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.

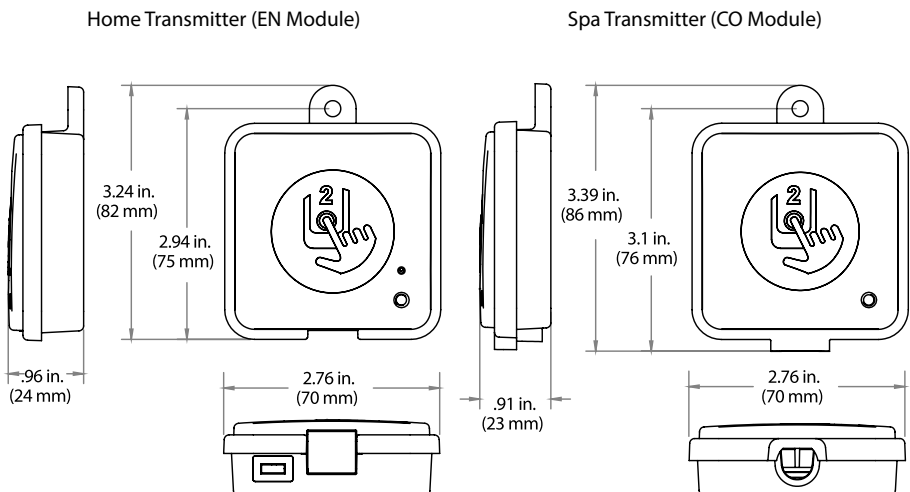
State-of-the-art app with push notifications

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



Home Transmitter (EN Module) installation

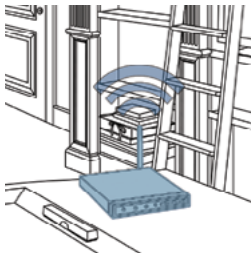
The Home Transmitter unit must be installed inside the house near the router as it needs to be connected to it. The Home Transmitter is provided with an Ethernet cable and a power supply. If required, a longer cable of good quality can be used by the installer (longer cable not provided) to install the 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:

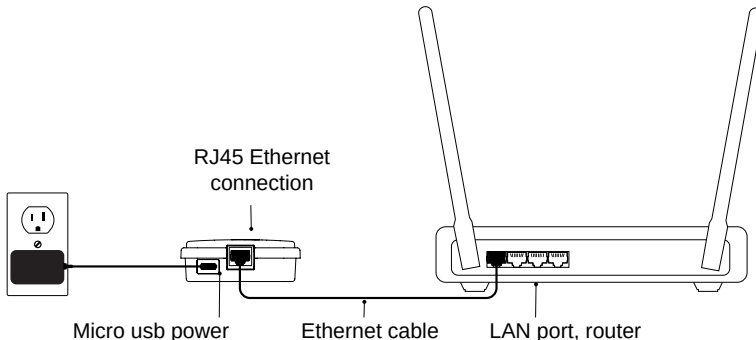
- If possible, install device on the first floor of your house.
- If installing in a basement, place at highest level possible and closest to a window.
- Try to install as far as possible from materials that may interfere with signal (ie. metal structures, thick cement walls).
- Install as far as possible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

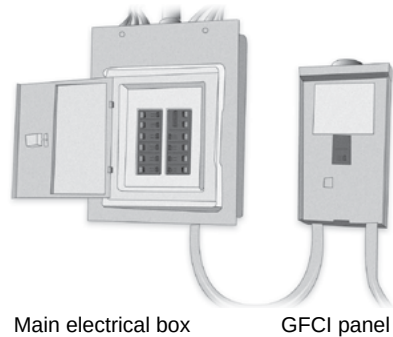
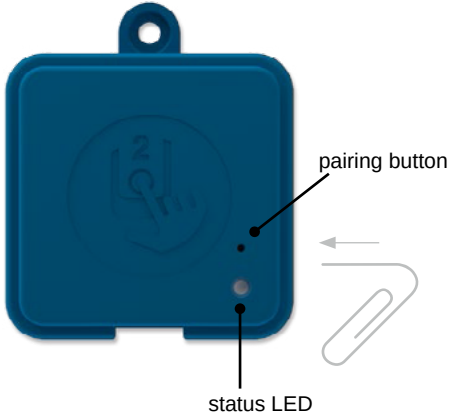
Finally, to power up the Home Transmitter, connect the provided transformer to a 120V (North American model) or 220V (European model) household supply and connect the USB cable between the transformer and the Home Transmitter.



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).

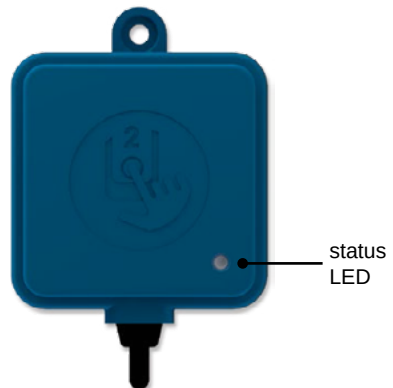
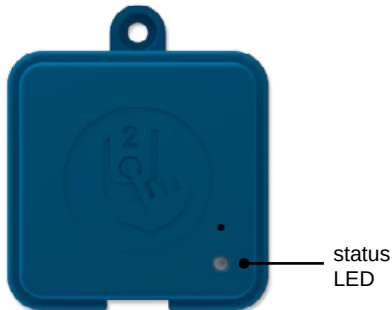
3. Shut off the spa's breaker (thus turning off the Spa Transmitter), wait a few seconds, and then flip the breaker back on. Within a few seconds, the pairing operation should complete and the Home Transmitter status LED will no longer be YELLOW.

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

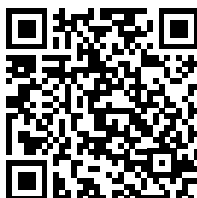
Pairing mode	Yellow (Blinking)
Router not detected	Red
Router detected	Green
in.touch 2 server detected	Blue
Module is fully functional	Blue

Spa Transmitter

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

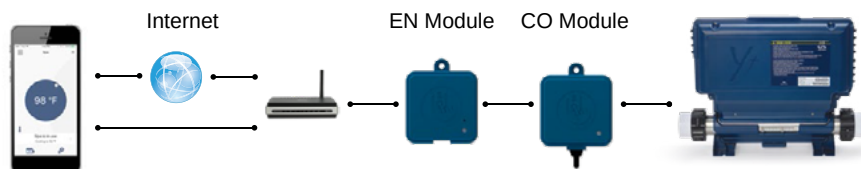
** When the LED status is blinking (blue, green or red) this indicates that the communication between the EN module and the CO module is not established.*

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.

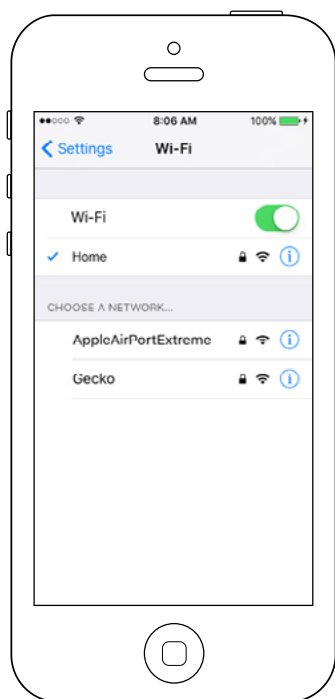
On the Internet

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.

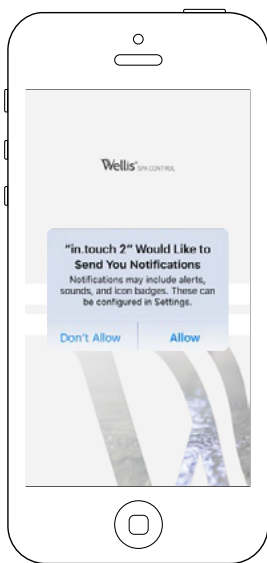
To have access to your spa away from home, you will need to have previously linked your mobile device to your spa on your home network.

Setup your Wi-Fi on your device



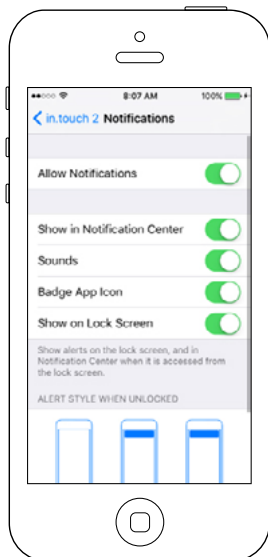
Before using your application, go to the Wi-Fi section of your device's settings. Make sure you are connected to your home network. This needs to be the same Wi-Fi provided by the router to which you connected your Home Transmitter.

Start the Wellis Spa Control 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.

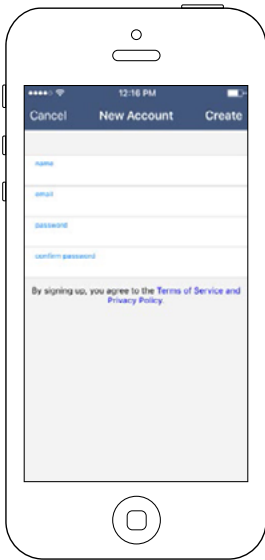
On Android, go to your settings menu and then into the notifications menu. Select the in.touch 2 app, from this page you may turn notifications on or off.

Login page



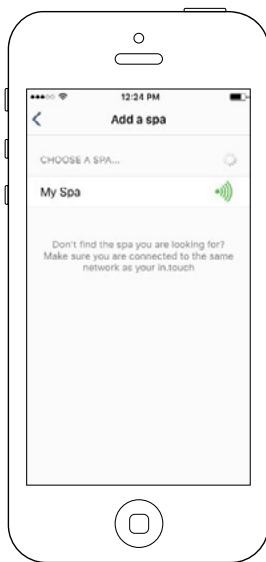
Before using your application, you must create an account first and then, you'll be able to sign in. Your account will give you the opportunity to have access to your spa from any in.touch 2 application.

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



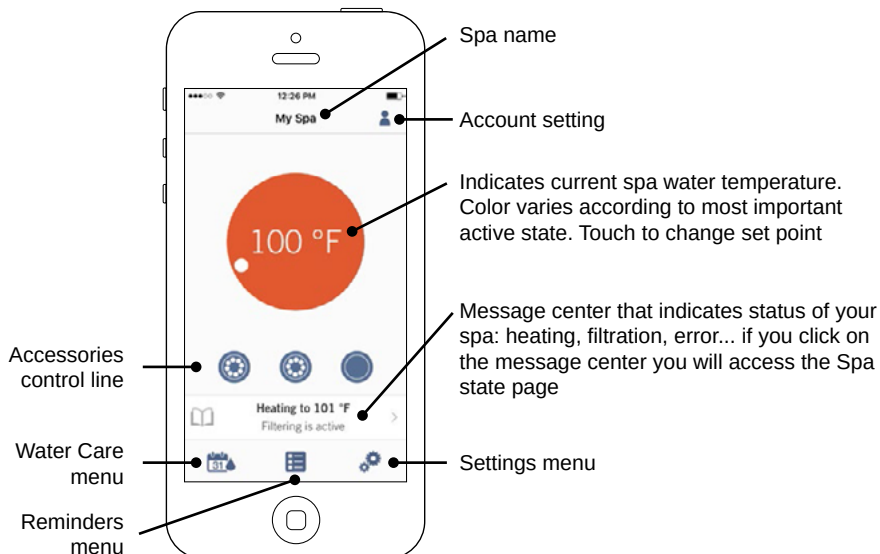
This page displays all the spas detected by your application. To detect your spa, you need to connect your mobile device to the same network to which you connected your Home Transmitter.

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 possible states:

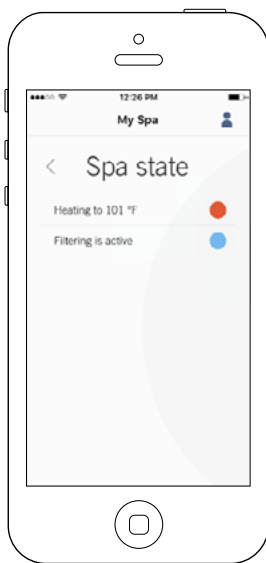
-  • Signal superior to 80%
-  • Signal between 80% and 51%
-  • Signal between 50% and 31%
-  • Signal below 30%
-  • The Spa Transmitter is not available

Home page

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



Spa state

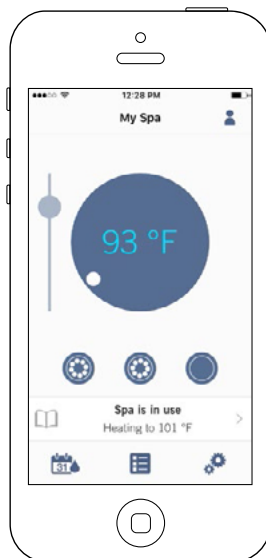


This page displays all the active states of your spa. Below is a quick description of each state you may encounter on your spa. Each state is associated to a priority and color that determines the color of the widget on the home page.

- 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.

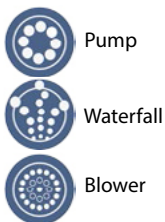
** If you are in economy mode your spa temperature will be 20°F below your set point.*

Turn on/off accessories

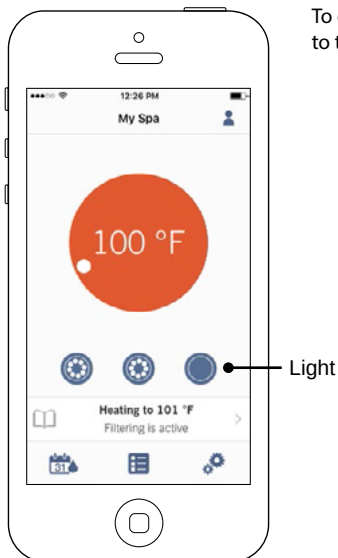


According to your spa pack configuration, you can start or stop an accessory by simply touching the associated icon. The icon will become animated when the accessory is on. Simply press on the icon to start or stop the accessory. If your accessory has more than one speed, press the button until the desired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

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

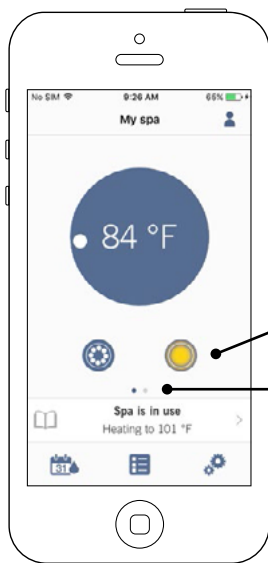


Turn on/off the lights



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

Control your in.mix 300

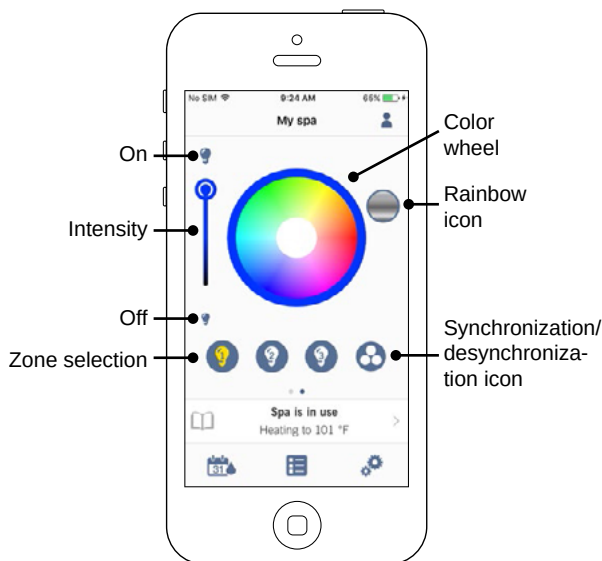


This menu is only available if an in.mix 300 is detected in your spa accessories

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.

Turn on/off in.mix 300

Swap to in.mix 300



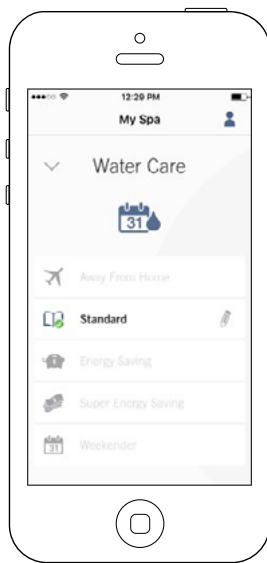
The in.mix 300 page allows you to customize your color zones in or around your spa.

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

To select a zone, click on the wanted one in the "zone selection" stripe. 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.

The synchronization / desynchronization icon gives you the possibility to match the color of the selected zone with the other zones

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 checkmark 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:

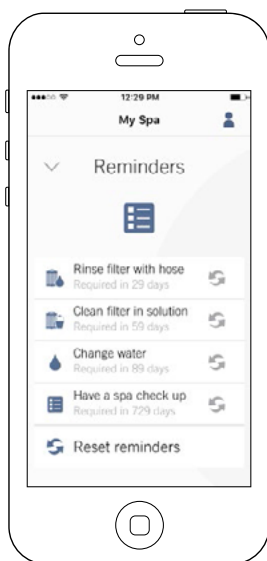
The spa will always be in economy mode during peak hours, every day of the week.



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.

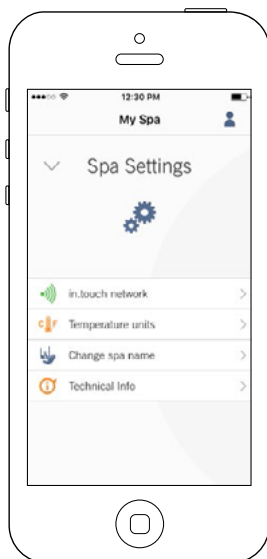
You can modify the programmed schedules by selecting one and adjusting the schedule.

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

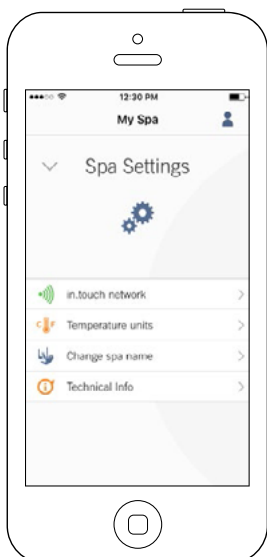


In the Settings page you can access the following:

- *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

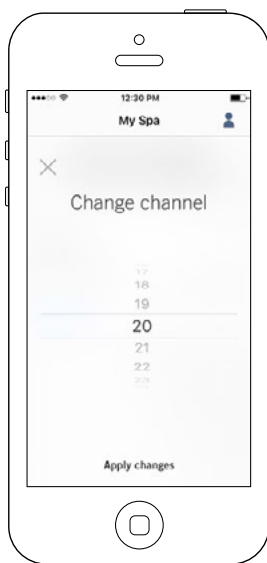


The in.touch network menu allows you to have access to information concerning the RF connection parameters between the Home Transmitter and the Spa Transmitter. This menu gives you access to:

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

To change channels, press on the Channel line.

Change channel

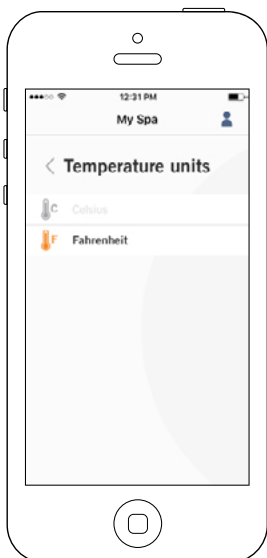


The Change channel page allows you to change the channel used by the two in.touch 2 modules.

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

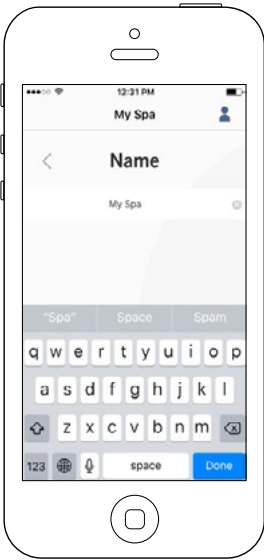
Temperature units



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

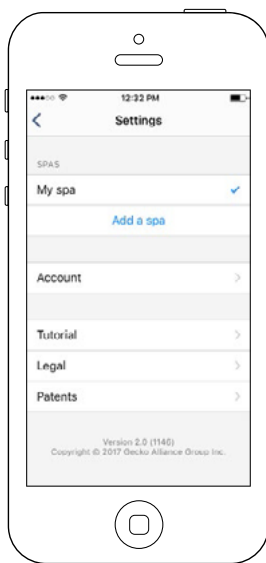
Technical Info



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:

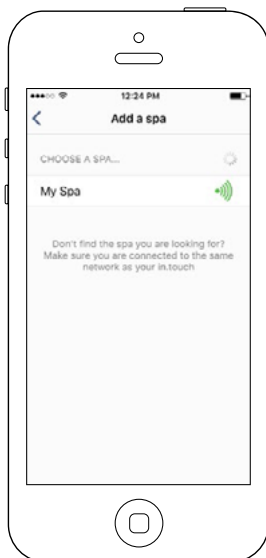
- *Add a spa from local network*
- *Account*
- *Tutorial*
- **Legal*
- ***Patents*

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



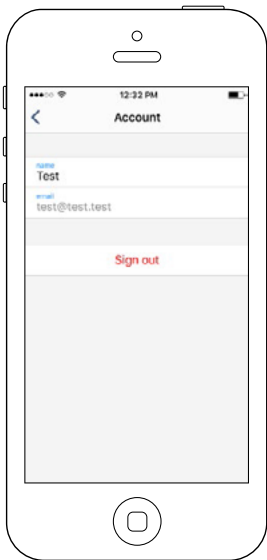
This page displays all the spas detected by your application. To detect your spa, you need to connect your mobile device to the same network to which you connected your Home Transmitter.

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 possible states:

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

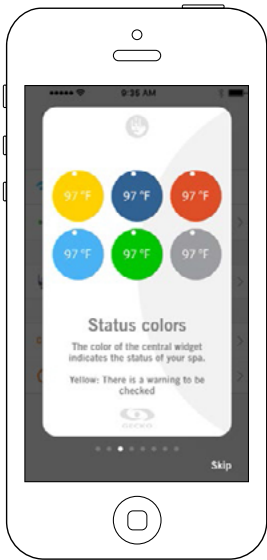
Account



This section gives you access to your account information.

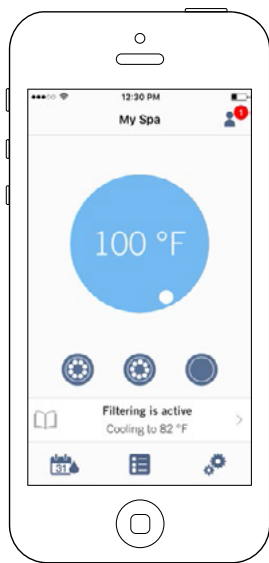
You can have access to this page by touching the following tabs: Settings (up right corner) - account

Tutorial



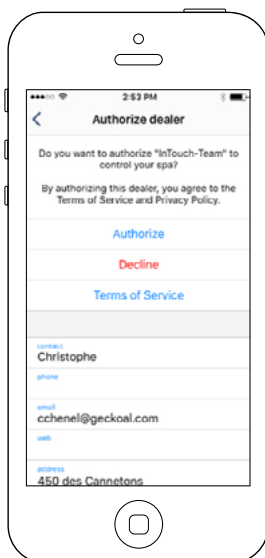
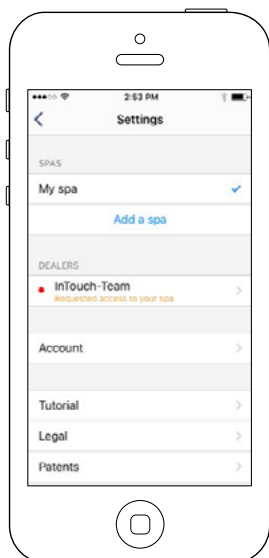
This section gives you a quick overview of your in.touch 2 application's functions.

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

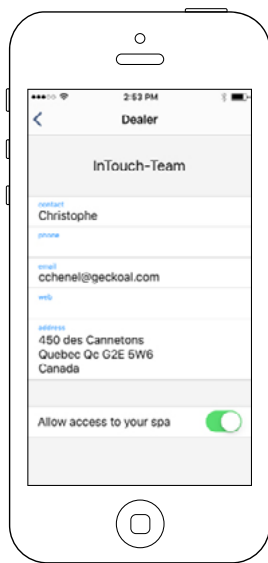


All the invitations you may receive are under the dealers tab in the "settings" menu.

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.

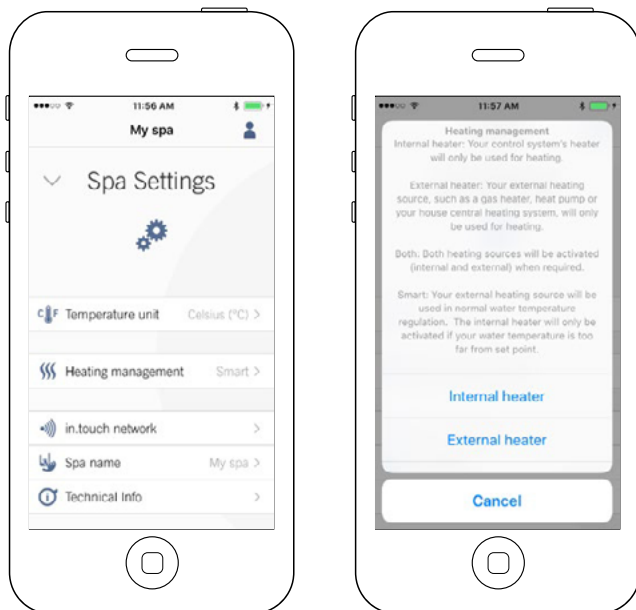
If you don't want your dealer to have access to your spa anymore, simply swap to the left the "Allow access to your spa" button at bottom of the page.

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.

in.grid Heating Management



Heating management will appear when an in.grid is detected.

You can change your in.grid heating management without the need to open the spa skirt to change the jumper.

To do so, go to your Spa Settings - Heating management.

You can choose between 4 modes:

- Internal Heater
- External Heater
- Both
- Smart

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.

2- INT (INTERNAL)

This mode provides an easy way to revert back to standard water regulation using the internal heater in case of problem with the external heating system.

3-EXT (EXTERNAL)

Use this mode for a maximum energy saving purpose. The spa control system will only use your external heating system to regulate the water temperature. In normal operation, the internal heater will never be activated.

Freeze Protection

Freeze protection has been added because EXT (EXTERNAL) mode does not allow the activation of the internal heater. In cold weather, if it becomes impossible to keep the water over freezing point, the help of the internal heater will then be needed. This is the only time the freeze protection will come in.

At any time, if the water temperature drops to 40°F (4.5°C), the resistive heater will give a boost to avoid freezing. The freeze protection will stay active until water temperature reaches the minimum allowed set point (usually 59°F / 15°C). Normal EXT mode will resume functioning thereafter.

4- BOTH (BOTH SYSTEMS ALL AT ONCE)

The spa control system will always use the external heating system AND the internal heater simultaneously to regulate the water temperature; they are both activated or deactivated at the same time.

5- SMART (ENERGY SAVINGS)

The spa control system will always use the external heating system to regulate the water temperature. If the temperature falls too far below your set point (-2.5°F), the internal heater will be activated to help your external heating system reach the set point.

WIRING DIAGRAM - W5000

W5000



WIRING DIAGRAM - W5000

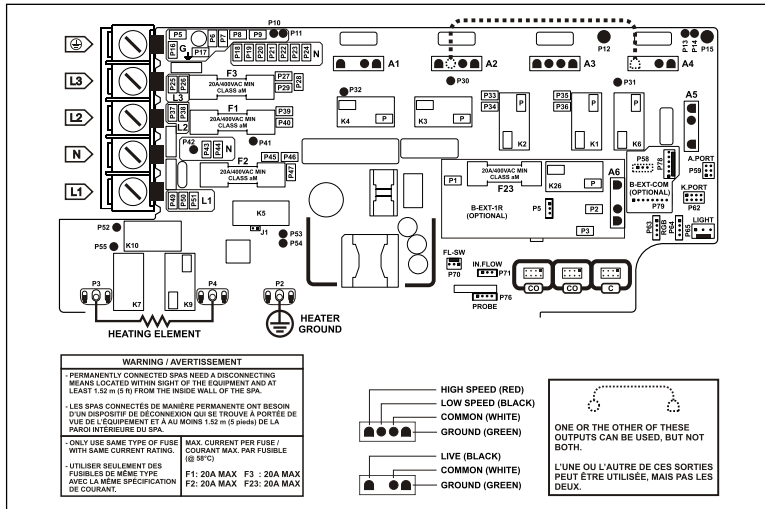
CONNECTIONS

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)		PUMP 1 (A3)		PUMP 1 (A2) (in.ye-5 CE)		PUMP 3 (A4) (in.ye-5-CE only)	
Voltage	230 V	Voltage	230 V	Voltage	230 V	Voltage	240 V
Green / ground	P16	Green / ground	P8	Green / ground	P7	Green / ground	P9
Black / line	P45	Black / low speed	K2-P	Black / low speed	K6-P	Black / line	K6-P
White / common	P22	Red / high speed	K1-P	Red / high speed	K3-P	White / common	P21
		White / common	P20	White / common	P19		

Pump 2 (A2) (in.ye-3-CE)		Circulation pump* (A1)		Light (12 V dc, 1.3 A Max.)*		Optional output (A26) (in.ye-4-CE or -6-CE only)	
Voltage	230 V	Voltage	240 V			Voltage	230 V
Green / ground	P7	Green / ground	P6	P65		Green / ground	P17
Black / low speed	K2-P	Black / line	K4-P	LEDs RGB (in.Ju.me only)		Black / line	K26-P
White / common	P19	White / common	P18	P63; P64		White / common	P44

* Ozonator and circulation pump can be combined on the same output via the optional splitter PP1.

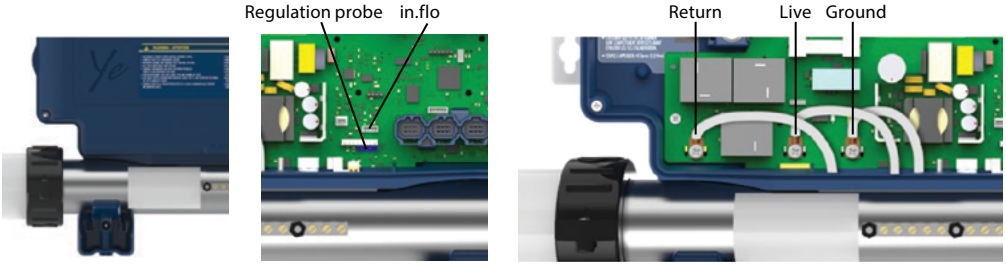
** Max. available current for Light and LEDs RGB together.

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

WIRING DIAGRAM - W5000

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)

WIRING DIAGRAM - W5000

ELECTRICAL WIRING

ELECTRICAL WIRING: EUROPEAN MODEL IN.YE

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

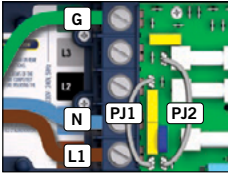


WARNING!

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!

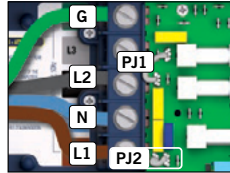
Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



1-phase

Connect PJ1 between
P37 and P49.

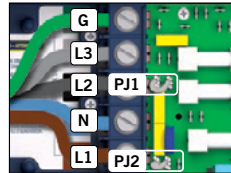
Connect PJ2 between
P50 and P26.



2-phase

Connect PJ1 between
P37 and P26.

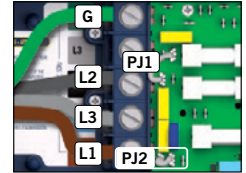
Connect PJ2 between
P50 and P49.



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.

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

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

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.

WIRING DIAGRAM - W5000

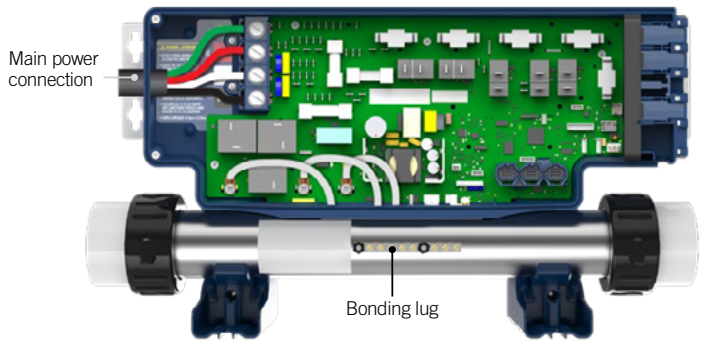
ELECTRICAL WIRING

ELECTRICAL WIRING : ALL MODELS



Warning

Disconnect power before starting electrical work. Wiring must be completed by a qualified electrician and must be done in accordance with the local electrical code.



To complete the electrical connections of our in.ye control system you will need a Phillips screwdriver and a flat-head screwdriver (slotted head size between 5/16" and 3/8").

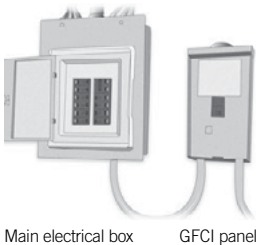
Remove the screws from the system control lid and remove it.

Remove 5 1/2" (142 mm) of cable insulation.

Strip away 1" (25 mm) of insulation from each wire.

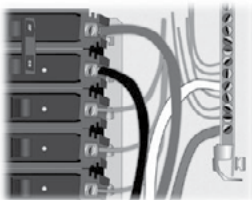
Pull the cable through the cutout of the box and secure it with a NPT strain relief* (hole diameter 1,335" [34,42 mm]). Ensure that the NPT strain relief clamps are around the outer sheath of the cable.

** For CE use an IEC certified plastic bushing that will maintain the IPX5 rating.*



Main electrical box

GFCI panel



Warning

For units to be installed in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5' (1.52 m) away, adjacent to, and within sight of the unit.

This product must always be connected to a circuit protected by a ground fault interrupter.

Proper wiring of the electrical service box, GFCI and in.ye terminal block is essential!

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



Disposal of the product

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

WIRING DIAGRAM - W8000

W8000

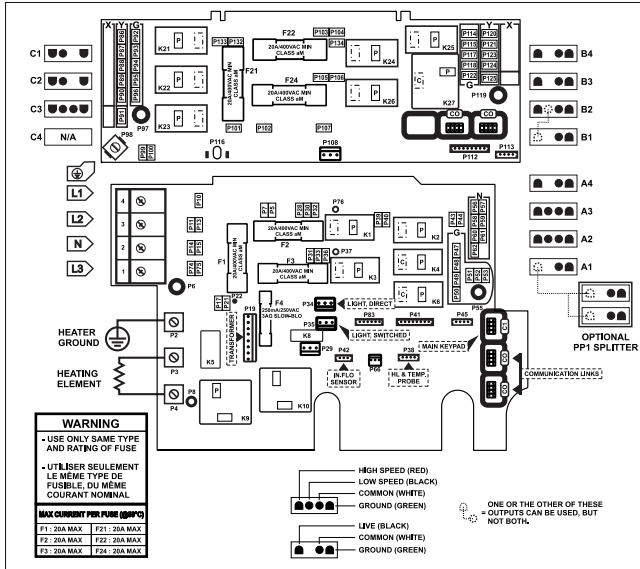


WIRING DIAGRAM - W8000

CONNECTIONS

CONNECTING HIGH VOLTAGE ACCESSORIES: EUROPEAN MODEL in.yt

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.yt. 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.



DIRECT OUTPUT 1 (A4)

Voltage	230 V
Green / ground	P48
Black / line	P32
White / common	P57

DIRECT OUTPUT 2 (C1)

Voltage	230 V
Green / ground	P92
Black / line	P132
White / common	P86

AUXILIARY (B1) (IN.YT-12-CE ONLY)

Voltage	230 V
Green / ground	P118
Black / line	K26-P
White / common	P124

PUMP 1 (A3)

Voltage	230 V
Green / ground	P49
Black / low speed	K2-P
Red / high-speed	K1-P
White / common	P58

PUMP 2 (A2)

Voltage	230 V
Green / ground	P50
Black / low speed	K6-P
Red / high-speed	K3-P
White / common	P59

PUMP 3 (C3)

Voltage	230 V
Green / ground	P94
Black / low speed	K22-P
Red / high speed	K21-P
White / common	P88

PUMP 4 (B2) (IN.YT-12-CE ONLY)

Voltage	230 V
Green / ground	P117
Black / low speed	K26-P
Red / high speed	K27-P
White / common	P123

PUMP 5 (B3) (IN.YT-12-CE ONLY)

Voltage	230 V
Green / ground	P115
Black / line	K24-P
White / common	P121

BLOWER (B4) (IN.YT-12-CE ONLY)

Voltage	230 V
Green / ground	P114
Black / line	K25-P
White / common	P120

CIRCULATION PUMP (C2) (IN.YT-12-CE)

Voltage	230 V
Green / ground	P93
Black / line	K23-P
White / common	P87

OZONATOR (A1)

Voltage	230 V
Green / ground	P51
Black / line	K4-P
White / common	P60

CIRCULATION PUMP (C2) (IN.YT-7-CE)

Voltage	230 V
Green / ground	P93
Black / line	K22-P
White / common	P87

LIGHT (12 V AC, 1A MAX.)

Voltage	230 V
Always on	P34
Relay	P35

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

WIRING DIAGRAM - W8000

ELECTRICAL WIRING

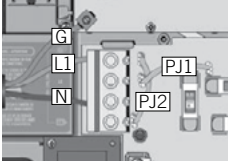
ELECTRICAL WIRING: EUROPEAN MODEL IN.YT

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



WARNING!

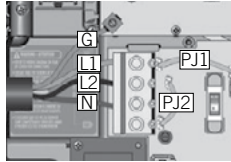
in.yt.ce models must always be connected to a circuit protected by a Residual-Current Device (RCD) having a rated operating residual-current not exceeding 30 mA. Correct wiring of the electrical service box, RCD, and pack terminal block is essential! Check your electrical code for local regulations. Only copper wire should be used, never aluminum.



1-phase

Connect PJ1 between P7 and P13.

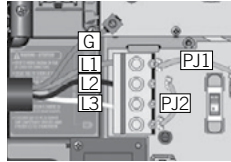
Connect PJ2 between P10 and P74.



2-phase

Connect PJ1 between P7 and P10.

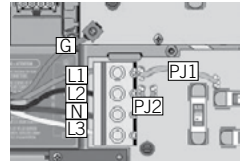
Connect PJ2 between P13 and P74.



3-phase Delta (no neutral)

Connect PJ1 between P7 and P10.

Connect PJ2 between P13 and P74.



3-phase with single neutral

Connect PJ1 between P7 and P10.

Connect PJ2 between P11 and P13.

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.

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).

WIRING DIAGRAM - W8000

ELECTRICAL WIRING

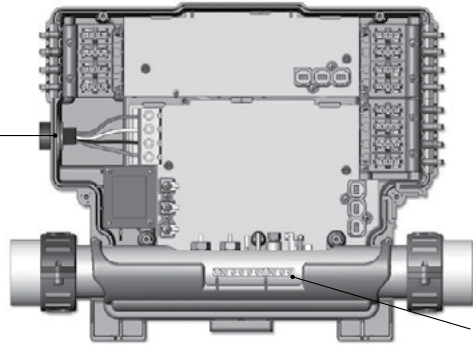
ELECTRICAL WIRING : ALL MODELS



Warning

Disconnect power before starting electrical work. Wiring must be completed by a qualified electrician and must be done in accordance with the local electrical code.

Main power connection



bonding lug

To complete the electrical connections of our in.ye or in.yt control system you will need a Phillips screwdriver and a flat-head screwdriver.

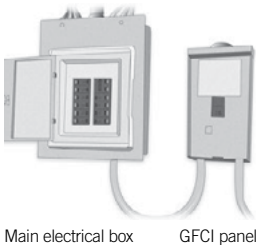
Remove the screws from the system control lid and remove it.

Remove 5 1/2" (142 mm) of cable insulation.

Strip away 1" (25 mm) of insulation from each wire.

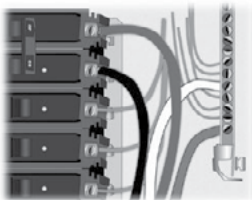
Pull the cable through the cutout of the box and secure it with a NPT strain relief* (hole diameter 1,335" [34,42 mm]). Ensure that the NPT strain relief clamps around the outer sheath of the cable.

** For CE use an IEC certified plastic bushing that will maintain the IPX5 rating.*



Main electrical box

GFCI panel



Warning

For units for use in other than single-family dwellings, a clearly labeled emergency switch shall be provided as part of the installation. The switch shall be readily accessible to the occupants and shall be installed at least 5' (1.52 m) away, adjacent to, and within sight of the unit.

This product must always be connected to a circuit protected by a ground fault interrupter.

Proper wiring of the electrical service box, GFCI and Y Series terminal block is essential!

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



Disposal of the product

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

BREAKER SETTING

Config

Please do not make changes in the electrical configuration section unless you are a qualified electrician.

In this section you can change the low-level configuration, number of phases, input current and heat pump current.

Use Up/Down to move between parameters, and the Light key to select a parameter to change. Please refer to the techBook of your specific control system for spa for details about the low level settings.

Once you have changed the Number of Phases in the menu, you will be unable to use the Up/Down keys to return to the Low-level Configuration menu. Please go back and re-enter the Config menu.

Note with version 15.00 and higher:

Depending on the pack configuration, a code may be required to change these settings. This code is "5555".



POWER UP

IMPORTANT Please read the following before starting the device.

Verify that all accessories are linked to the ground lug and connected to the to the control system.

A minimum flow of 68 LPM (18 GPM) is required. Make sure that all valves are open in the hot tub plumbing and that the water flow is sufficient between the main pump and the water heater.

Turn on the breaker.

IN.FLO DRY-FIRE PROTECTION

At start up, the in.flo's detector verifies the water flow according to the following sequence:

The Pump 1 or the circulation pump runs for a period of 2 to 5 minutes.

The display will show "--" during the flow verification. After this time, the system confirms if flow is adequate or not.

If the flow is sufficient, the temperature of the water is displayed on the keypad screen. When the water has reached the consigned temperature plus 0.45°C (0.8°F), the water heater turns off.

DISPLAY SEQUENCE AT START UP (EVERY PARAMETER IS DISPLAYED FOR 2 SECONDS)

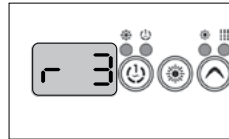


Lamp test

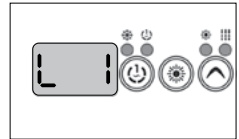
All segments and LEDs light up.



Software number



Software revision



Low-level selected

Low-level selected from the low-level menu.

COMMON HARDWARE ISSUES

Problem	Usual Cause	Solution
System not operating	– House circuit breaker tripped or in OFF position	– Reset circuit breaker on house breaker panel
Heater not operating	– Water level too low – Heater mode not selected – No power to heater – Heater not operating – Jets are closed	– Add water to reach 6" (15.5 cm) below top lip of spa – Open all jets – Refer to temperature/heater functioning – Check house circuit breaker – Contact dealer
Water not clean	– Clogged or blocked floor suction or skimmer – Filter clogged (dirty) – Poor water chemistry – Insufficient filtering time – Improper maintenance – High content of solids in water	– Clean floor suction/skimmer – Remove blockage – Clean or replace – See Maintenance section – Run filtration mode longer – Contact dealer – Use clarifier or drain and refill spa
Abnormal water usage	– Excessive evaporation and/or splashing	– Use spa cover and refill as necessary
Overheating	– High ambient temperature	– Contact dealer
Low water flow from jets	– Operating in FILTER mode-low speed – Clogged or blocked suction or skimmer – Dirty filter – Jets in OFF position – Slice valves closed	– Select hi-speed jets – Clean floor suction/skimmer – Remove blockage – Clean or replace – Open jets – Contact dealer
Noisy pump and motor	– Clogged floor suction or skimmer – Low water level – Damaged or worn motor bearings	– Clean floor suction/skimmer – Add water to normal water level (6" or 15.5 cm below lip) – Contact dealer
No water flow from jets	– Pump not primed – Adjustable jets turned off – House circuit breaker tripped, no power to system – Faulty pump or motor – Pump surges – Slice valves closed	– See Priming section – Turn on jets – Reset circuit breaker at house panel – Low water. Check level on Weir door – Contact dealer
Water leakage from under spa	– Check unions & drain hoses	– Close or tighten as necessary
No air flow from jets	– Air control not open – Jet nozzle not seated properly – Jet nozzle missing	– Open control – Check jet nozzles – Inspect jets and replace as needed
Motor will not operate	– House circuit breaker tripped or in OFF position – Improper or defective wiring or electrical supply – Thermal Overload Protection switch tripped	– Reset circuit breaker – Contact dealer – Auto reset after motor has cooled. Contact dealer if motor continues to cycle
The spa will not shut off	– Spa trying to heat – Spa is in filter cycle	– Check Set Temperature – Check Filter Times

