

treesse

bathtub

Fusion SKI

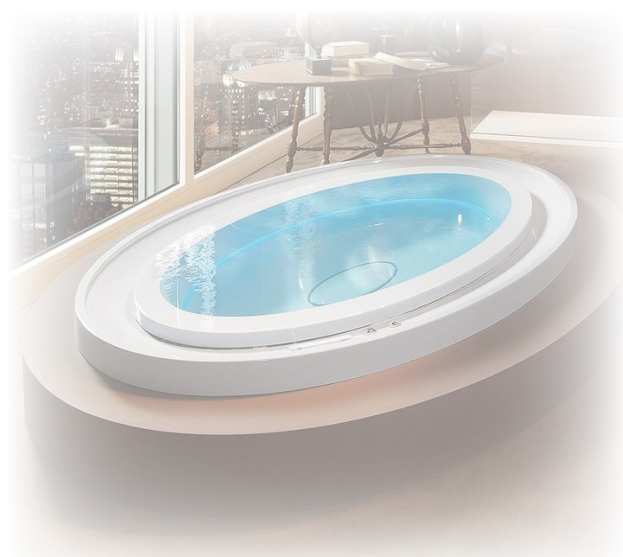
Installation manual

The installation of this bathtub is simple and immediate, however we advise you to read this manual carefully before installing it.

The Tressse team is always available for any information or request for assistance that may be required during installation.

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Good luck with your work!



Maximum care has been paid to guarantee the accuracy of this manual.

The Manufacturer reserves the right to modify the equipment or the documentation at any time, without notice.


Therefore there might be small differences between this manual and the product you have received: we apologise in advance for any inconvenience.

The total or partial reproduction of this manual without the Manufacturer's consent is prohibited. Measurements are purely indicative and not binding.


The original language of this manual is Italian: the Manufacturer is not responsible for any mistakes in translation/interpretation.

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 Read this guide carefully before installing the appliance, and conserve this booklet with care for any future consultation of users.


If you do not understand something, contact the manufacturer for an explanation.


 Installation must be carried out by qualified personnel in compliance with local regulations and national provisions regarding civil and industrial systems.

Before making electrical and plumbing connections to the equipment, the installer must receive the declaration of conformity of the building's systems from the user. Without such document, the Manufacturer cannot be held responsible for damage to the systems or premises where the bathtub will be installed.


 Comply with regulations, instructions and measurements on the "Pre-installation technical sheet".

 Unauthorised actions, tampering or modifications that do not follow the information provided in this manual can cause damages, injuries or fatal accidents and null and void the warranty.

 During the installation of the bathtub, do not place objects inside it, even temporarily: they may fall down the drain

 When installing the bathtub, always use personal protective equipment (e.g., gloves, safety shoes, etc.)



 Persons not involved with appliance installation may not pass through or occupy the work area during appliance assembly.



Ecological notes

Given their potential danger, the packaging materials must be kept out of reach of children and animals, and correctly disposed of in compliance with local regulations.

Treesse invites you to protect the environment by disposing of the material in recycling bins.

EXPLANATION OF PICTOGRAMS



Danger! Situation presenting immediate danger, or a hazardous situation that could cause injury or death.



More info: helps the installer understand a topic better



The pictogram refers to text in another document



Ecological notes for respecting the environment

1 PREPARATIONS AND CHOICE OF POSITION



The pre-installation sheet supplied at the time of purchase provides all the information necessary for a correct preparation of the installation environments.

Before installing the bathtub, check that everything has been prepared. Find below a quick checklist, for complete information always refer to the pre-installation sheet.

Check that:

- A platform or a recess (in the case of recessed installations) of reinforced concrete, with a thickness suitable for supporting the weight of the bathtub and the people within.
- Ø15 cm vents have been installed to ensure proper ventilation of the technical compartment
- Drainage grating around the perimeter has been installed to help preserve the equipment and the structure.
- If possible, non-slip flooring has been installed in the area around the bathtub.
- For a recessed installation, a technical inspection port measuring at least 50 cm wide has been prepared on all sides of the bathtub.
- The connections to the water supply and electrical grid have been made in compliance with current regulations in force in the country of installation.
- A drain and gate valves have been installed (to close the hot and cold water supply).
- A water softener has been installed (upstream of the bathtub) if the water has a high degree of hardness.



More information

OUTDOOR INSTALLATION

It is prohibited to install this type of bathtub outdoors.

INDOOR INSTALLATION

Preparations: in the area used to access the bathtub it is recommended to install anti-slip flooring. The evaporation of water in the bathtub in the presence of high internal temperatures can generate very high levels of humidity in the environment.

To avoid this problem, provide good natural or forced ventilation in the installation environment and, if necessary, a dehumidification system. Damage caused by this phenomenon is not covered by the manufacturer warranty.

Choice of position: Always take into account the size of the bathtub: narrow passages, doors and steps can be an obstacle to its transport to the desired place.

2 CHECKING BATHTUB INTEGRITY



After having removed the bathtub from the packaging, check its integrity.

Check:

- That there is no visible structural damage.
- That there are no cracks in the surface of the bathtub or in the outer covering (cracks due to incorrect transport or support are not covered by the warranty).
- The correct position of the sleeves and pipes.
- That any ties are not loosened.

If you notice any anomalies, do not proceed with the installation but rather promptly contact the Manufacturer.

1 MOVING

To move the bathtub to the place of installation a suitable lifting device (e.g., pallet jack) is required. As an alternative, provide for the availability of eight people.

Before moving the bathtub make sure that it can **easily pass** through the doors and hallways to reach the desired place of installation.



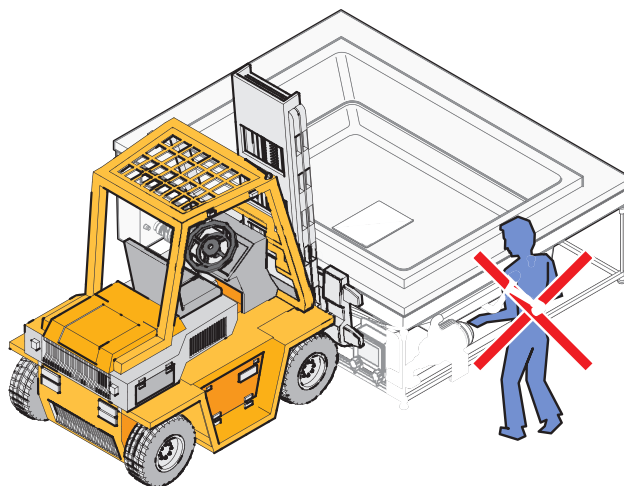
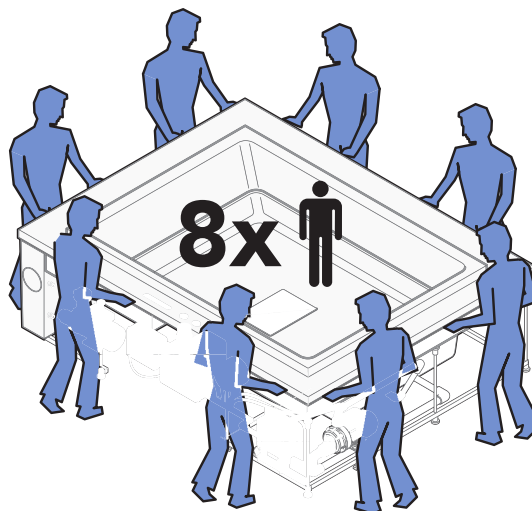
Movement must be carried out using personal protective equipment (e.g., gloves, safety shoes, etc.) and taking all the necessary safety precautions for those involved and to not damage the bathtub.



During transport, lift the bathtub by holding it exclusively by the edge and **NEVER** by holding the plumbing lines or operational parts (e.g., pumps, etc.).



During movement, the surrounding area must be kept free of persons not involved in the operation, animals or objects (e.g., packaging, etc.) that could get in the way.



The figures in the manual always depict the Fusion SKI 230. Unless otherwise specified, the installation of the other models must be carried out in a similar manner.

2 POSITIONING

POSITIONING IN THE PLANNED LOCATION

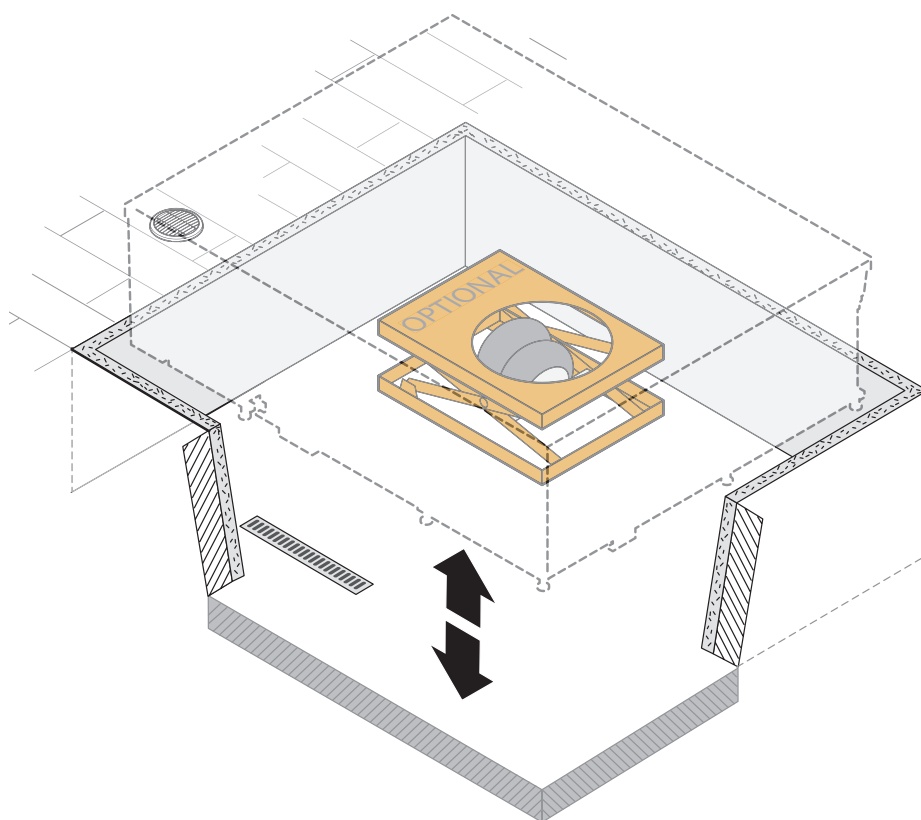
For **installation above ground (freestanding)**, place the bathtub in the installation environment and check its perfect flatness, essential for proper operation. If it is not level, it is possible to adjust the height of the minipool's feet to compensate up to a maximum of 1 cm.

For a **recessed installation**, lower the bathtub into the prepared space.



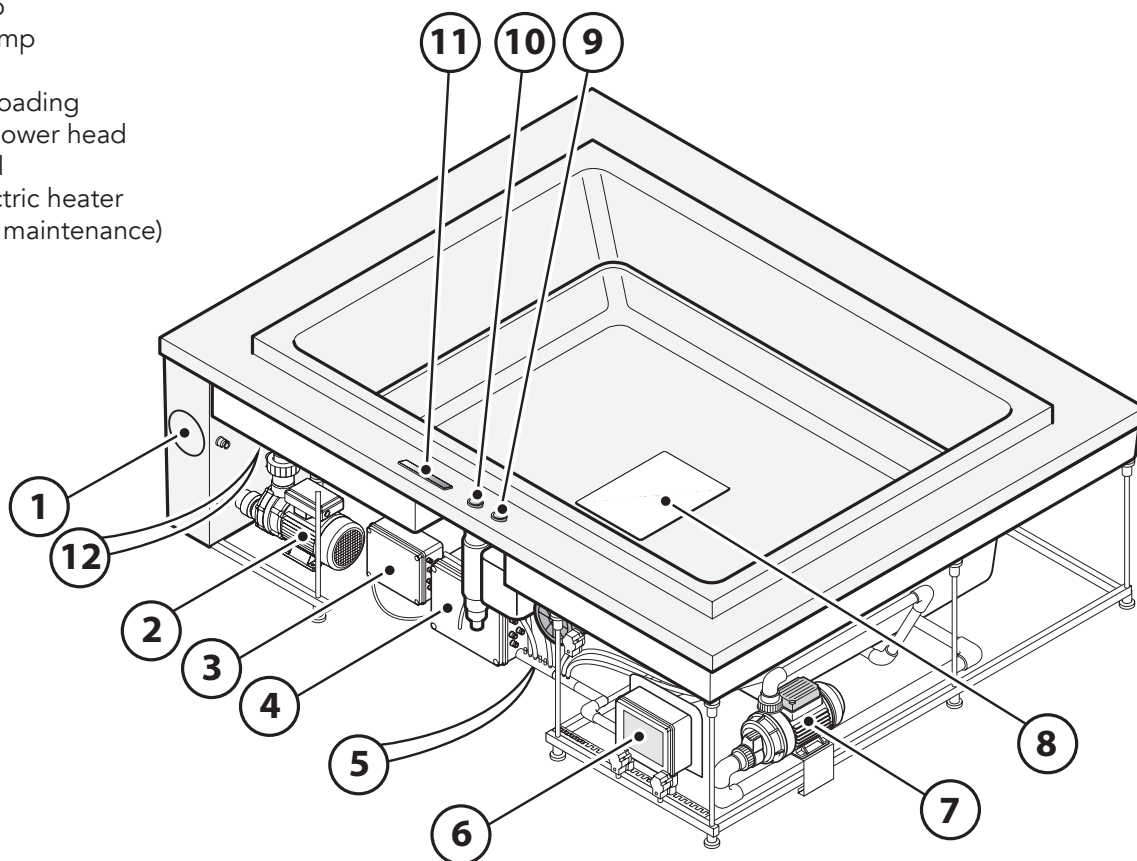
If it was not possible to provide a technical inspection port on all sides of the bathtub, a pneumatic lift is available (OPTIONAL - to be requested from the Manufacturer) in order to simplify future maintenance operations. It is recommended to provide a removable inspection hatch "A" positioned on the side where the bathtub components are situated.

After positioning the bathtub in its prepared space and after having connected the lift, test it.



1 DESCRIPTION OF MAIN COMPONENTS

- 1 Compensation tank inspection
- 2 Recirculation pump
- 3 Chromatherapy control unit
- 4 Main control unit
- 5 Drain valve
- 6 Electronic tap
- 7 Whirlpool pump
- 8 Bottom plate
- 9 Disinfectant loading
- 10 Hand-held shower head
- 11 Control panel
- 12 Optional electric heater (temperature maintenance)



2 QUALIFICATIONS OF THE INSTALLER



Before installation it is recommended to carefully read the safety warnings at the beginning of this manual and to always operate in perfect physical and mental condition.

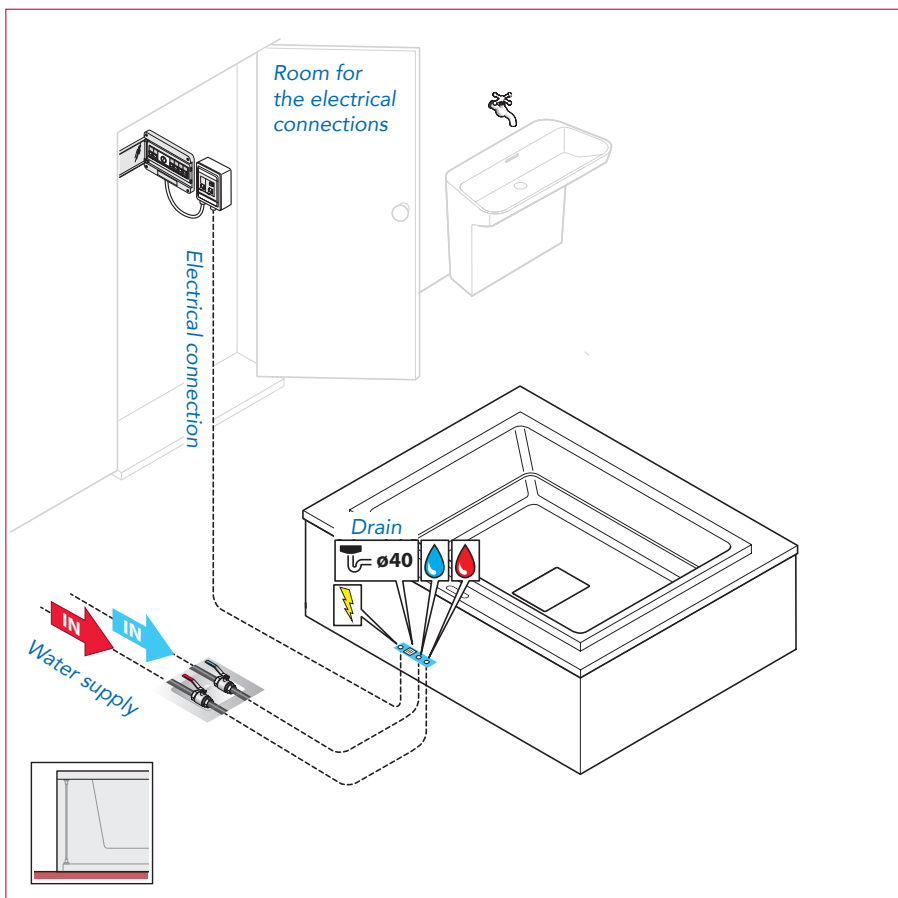
The installer, qualified and authorised by the Manufacturer, must carry out the operations based on his or her professional qualifications. Any activities for which he or she is not qualified (e.g., plumbing or electrical connections) must be performed by specific and qualified professionals so as not to risk their own safety and that of others who interact with the equipment.

3 CONNECTIONS REQUIRED

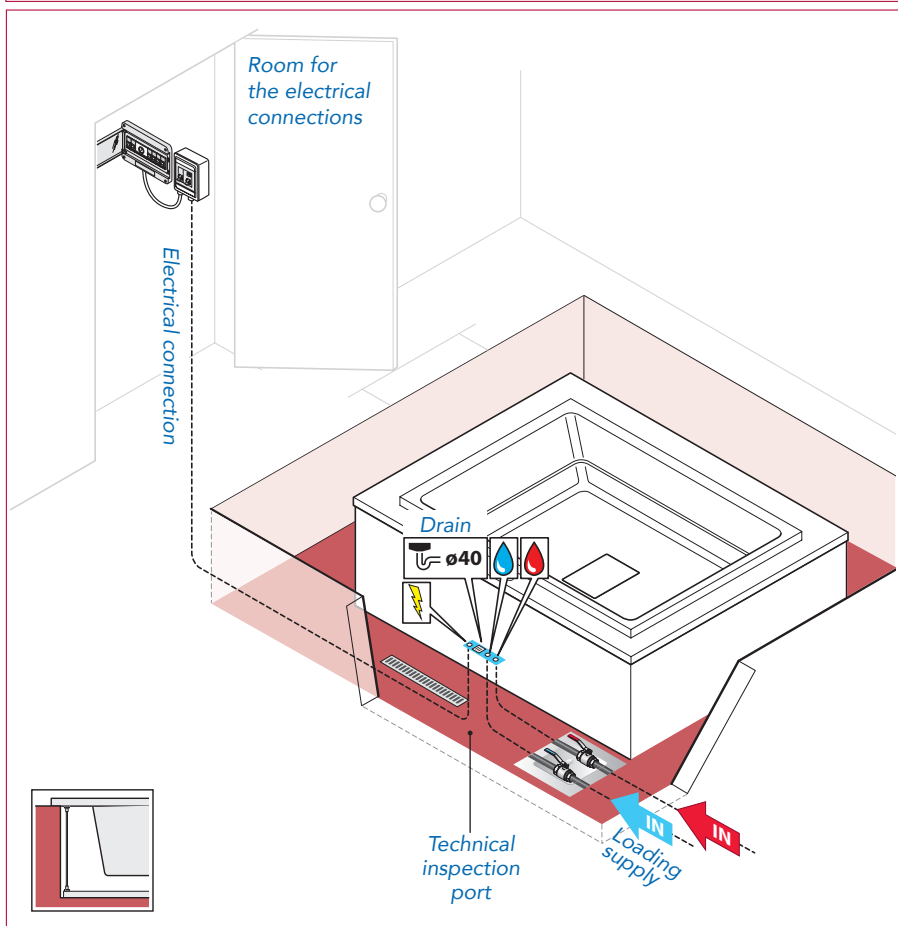
To be used, the bathtub requires only two connections:

- 1 plumbing connections (incoming and outgoing water)
- 2 electrical connection (power supply)

The following pages will provide detailed explanations of how to perform these preparations.



EXAMPLES OF BATHTUB INSTALLATION



4 PLUMBING CONNECTIONS



All water connection operations must be performed after making sure that the bathtub's water supply valve is CLOSED.

The connection must be made by an experienced, qualified plumber.



It is recommended to use ONLY tap water. If this is not possible refer to the "more information" section to the side.

The plumbing connection must be:

- Dedicated exclusively to the bathtub (it is not possible to connect other equipment to the same connection).
- Made with hoses and connectors that are new and never used.

CHARACTERISTICS OF THE WATER SUPPLY

The optimal values for the water supply are as follows:

- Hardness between 7°F and 14°F (fresh water) - 200 to 400 mg/l (ppm).
- minimum inlet pressure: 150,000 Pa (1.5 bar)
- minimum inlet pressure: 300,000 Pa (3 bar)
- Water suitable for human consumption.

Make sure that during the pre-installation all the characteristics of the water supply have been met (see "Pre-Installation Sheet" on p. 9).



More information

WATER HARDNESS

Water hardness (TH) is determined by the total content of calcium and magnesium present in the water, coming from their soluble salts.

Water classification:

.....up to 7°F	=	Very soft water
From 7°F to 14°F	=	Soft water
From 14°F to 22°F	=	Slightly hard water
From 22°F to 32°F	=	Fairly hard water
From 32°F to 54°F	=	Hard water
.....more than 54°F	=	Very hard water

(1°F = 10 mg calcium carbonate per litre of water)



More information

TAP WATER AND WELL WATER

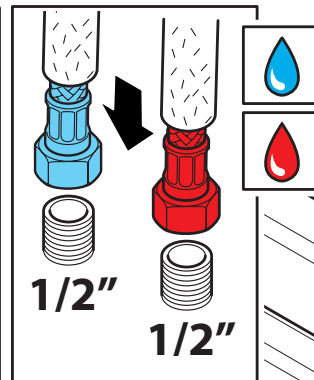
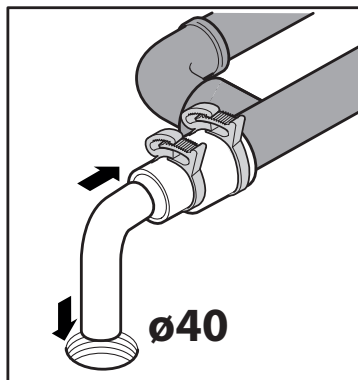
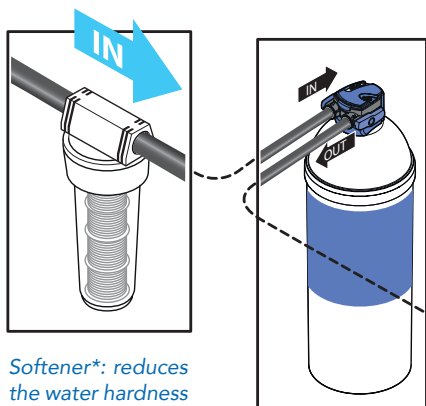
To ensure maximum hygiene and durability of the bathtub it is essential to pay close attention to the quality of the water that will be used to fill it. It is important that the water used be drinkable. It is always advisable not to use well water because it may be very hard, rich in metals like iron and manganese, and have bacterial loads. Tap water is recommended. In the case of very hard or ferrous water it is always recommended to install softening and iron removal systems upstream. The company cannot be held responsible for issues related to the use of non-drinkable water or lack of installation of such systems. *The plumber is responsible for choosing the type of components to be used and the verification of compliance with the purity and potability parameters of the water supply.*

EXAMPLE OF PRE-INSTALLATION PLUMBING FOR A BATHTUB

Connect the drain of the floor bathtub. The plumber is responsible for the choice and type of materials to be used and the verification of compliance with anti-pollution standards.

Connection to the bathtub using the 1/2 inch female hoses provided.

Filters*: retain impurities and oxides (indispensable if the water comes from a well)



Gate valves*: shut off the water flow

* The images are purely indicative: the model and type must be chosen by the plumber based on the characteristics of the water and the current system.

5 ELECTRICAL CONNECTIONS

The Tressse minipools are built in compliance with European laws (EN 60 335-2-60) and are tested during production to ensure the safety of the installer and user.

The connection must be made by an experienced, qualified electrician.



All electrical connections must be made only after disconnecting the electricity in the work area.

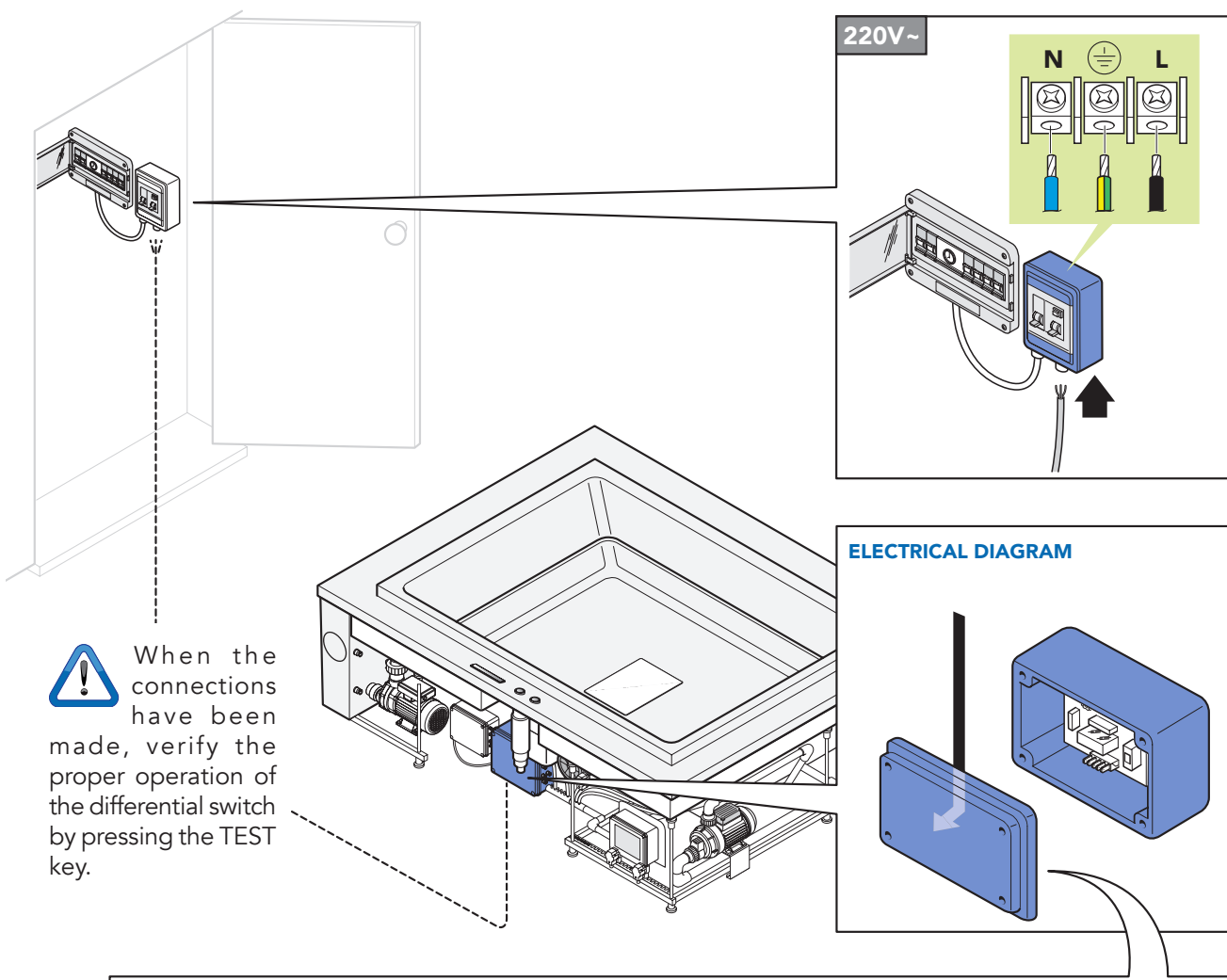
The electrical connection must be:

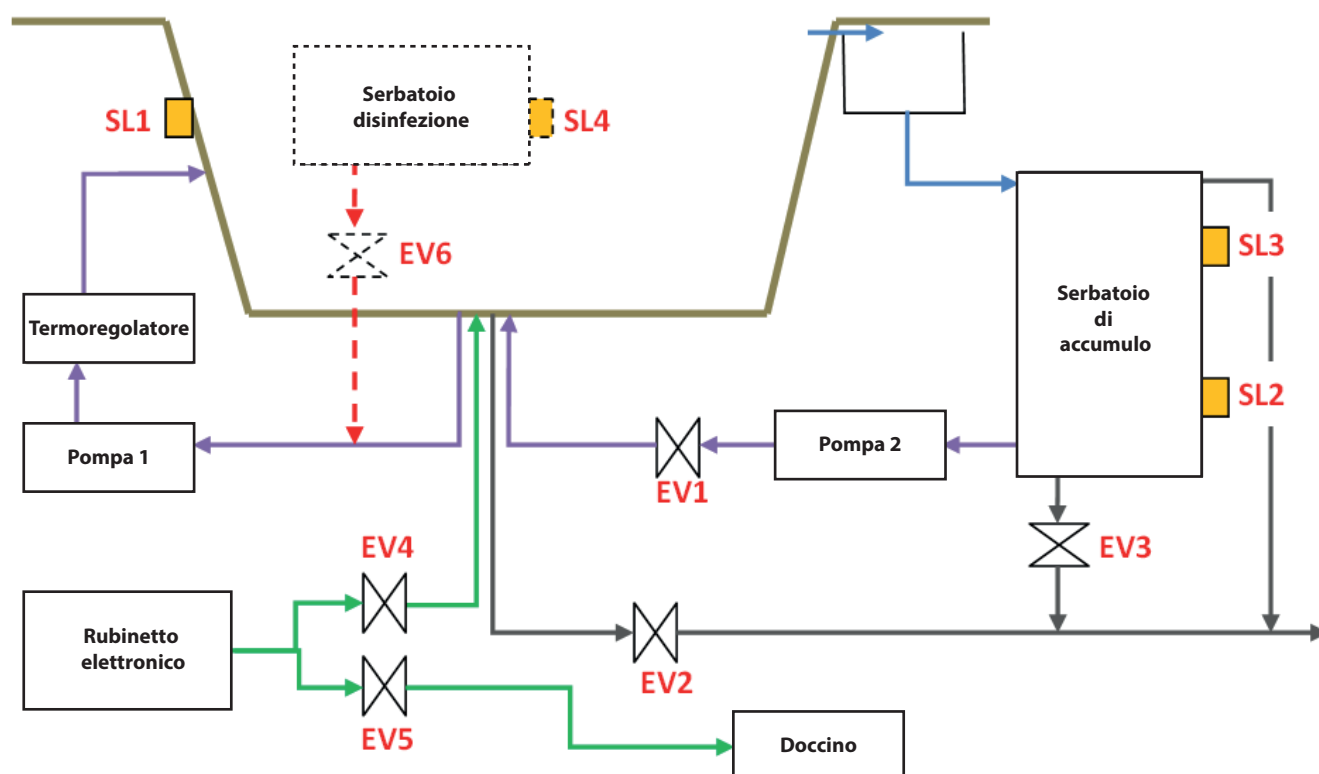
- Performed in a **fixed and permanent manner**, without intermediate splices, in accordance with regulations of the country of installation.
- **Sufficient for the current absorbed by the bathtub** (see technical specifications).
- Provided with a functioning **ground as per current regulations**.
- **Protected against splashing water**, then placed in a dedicated room, closed and sheltered from the weather.
- Controlled by a **multi-pole switch** with a contact gap of at least 3 mm and a breaking capacity equal to 60A (or in any case adequate for the absorption of the bathtub).
- Controlled by a **differential switch** no larger than 30mA.

The control unit's power supply cable must be of the H05 type with three wires (single-phase 230V) whose gauges are adequate for the absorption of the bathtub (see "Pre-installation Sheet"). Its size depends on the absorbed current and the distance of the bathtub from the main electrical cabinet.



The Manufacturer is not responsible for connections made in a way that does not comply with local codes, the specifications in this manual or tampering with any electrical component of the bathtub.



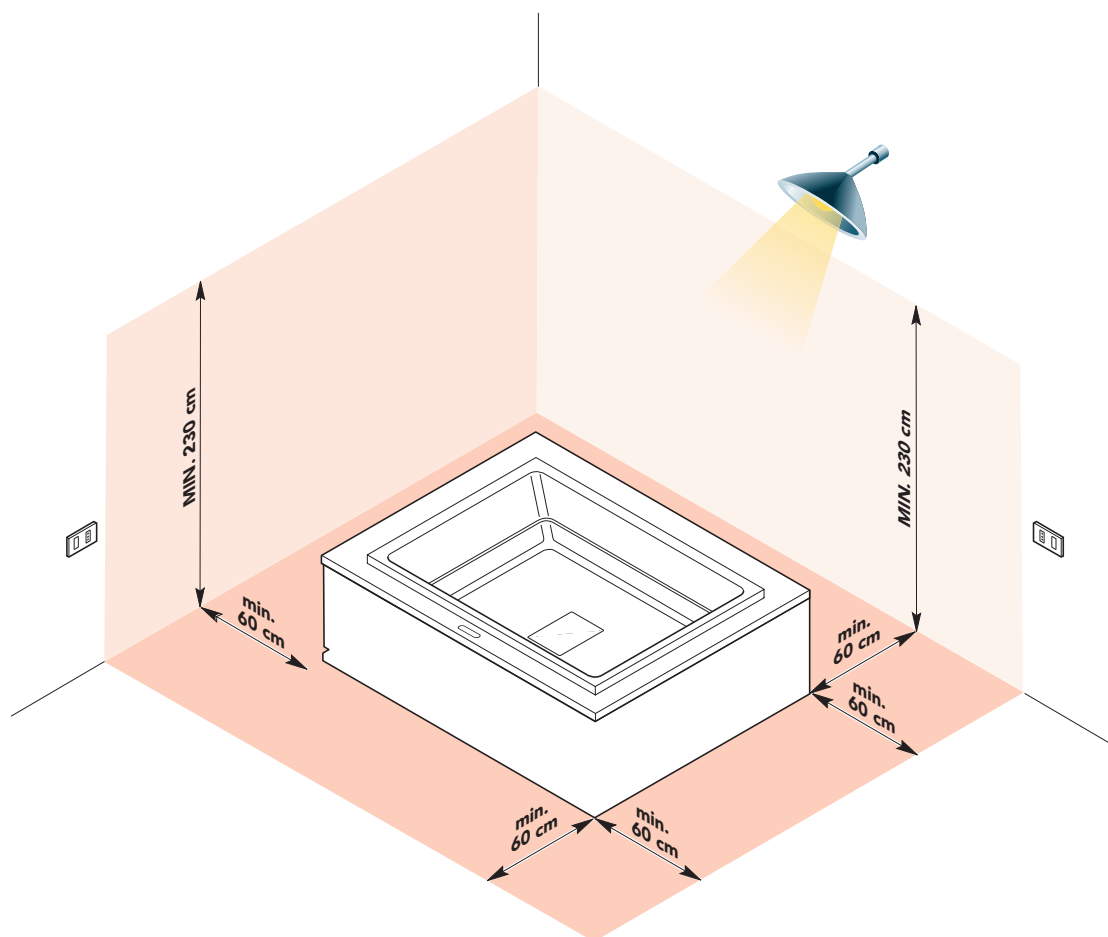


- SL1: bathtub level sensor, enables whirlpool operation
- SL2: storage tank safety level sensor
- SL3: storage tank fill level sensor
- SL4: disinfectant reservoir level sensor
- EV1: mechanical non-return valve (clapet valve or spring)
- EV2: motorised rotating valve
- EV3: traditional drain solenoid valve For convenience designed as one, in the final system there will be two solenoid valves in parallel to increase water drainage speed
- EV4: bathtub fill solenoid valve
- EV5: shower head solenoid valve
- EV6: disinfection solenoid valve
- Pump 1: pump for whirlpool circuit
- Pump 2: pump for the water recirculation circuit
- Thermoreg.: automatic thermoregulator for maintaining the water temperature

SAFETY ZONE



Local regulations prohibit any electrical installation (plug sockets, switches, lamps, etc.) in the area surrounding the bathtub for a distance of at least 60 cm and a height of 230 cm.



6

TESTING AFTER INSTALLATION

MAKE SURE THAT...	✓
The bathtub is level and firm (if necessary adjust the feet - up to a maximum of 1 cm).	
The water connections have been made properly in accordance with local and national codes and that they can guarantee a perfect seal (verification to be carried out after filling the bathtub).	
Electrical connections are made correctly in accordance with local and national codes and that the cables are not damaged, crushed or abnormally bent.	
The minipool's drainage valves are closed.	
The water supply gate valves have been opened.	
Tools, documents or other items were not left under the bathtub or in the recess.	

1 FILLING THE BATHTUB

Perform a preliminary cleaning of the bathtub using a bit of water and a mild detergent.

Do not use cloths or cleaners that are abrasive, aggressive or that contain solvents because they could irreparably damage the surface of the bathtub.



Do not start any operation until the bathtub has been completely filled, otherwise the bathtub could be damaged.

Before filling, once again check the quality of the water supply. This is very important for the well-being of the users and for the long life of the bathtub.



For more information see chapter "Characteristics of the water supply" on page 10.

AUTOMATIC FILLING USING THE KEYPAD

Filling is carried out by following the figures on the side (follow the instructions for your keypad).

Filling takes place from the bottom of the bathtub, and once it has finished the tank is filled.

Once the correct level has been reached, the system automatically stops filling.

At this stage and until filling is completed, no other functions of the bathtub - except chromatherapy - will be available.

The automatic bathtub filling cycle is divided into two distinct stages:

STAGE 1 (see the diagram on page 13)

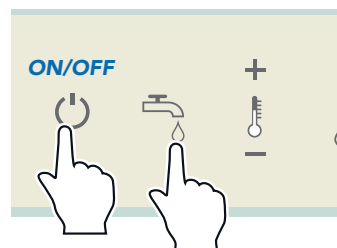
- Closure of the EV2, EV3 and EV5 solenoid valves.
- Motors and thermoregulator turned off.
- Enabling of the electronic tap with relative temperature set and of the EV4 fill solenoid valve. The condition remains until manual stop or until the water level in the bathtub as verified by the SL1 sensor is reached.

A 60-minute safety timer is provided, after which the function is interrupted, reporting an anomaly to the plumbing system (the water fill key flashes red).

STAGE 2 (see the diagram on page 13)

- Closure of the EV2, EV3 and EV5 solenoid valves.
- Motors and thermoregulator turned off.
- Enabling of the electronic tap with relative temperature set and of the EV4 fill solenoid valve. The condition remains until manual stop or until the maximum level of the storage tank as verified by the SL3 sensor is reached.

A 60-minute safety timer is provided, after which the function is interrupted, reporting an anomaly to the plumbing system (the water fill key flashes red).



Automatic filling using the keypad switch on the bathtub with the ON/OFF key and then press the "fill" key. This activates the automatic filling of the bathtub, controlled by two level sensors and is confirmed by the fixed solid blue colour of the key.



More information

MAINTAINING THE WATER LEVEL IN THE BATHTUB

When the bathtub is completely filled a maximum sensor (SL2) and a minimum sensor (SL1) continuously monitor the water level inside the compensation tank.

SL1 (minimum sensor) = 0, the sensor does NOT detect water

SL1 (minimum sensor) = 1, the sensor detects water

SL2 (maximum sensor) = 0, the sensor does NOT detect water

SL2 (maximum sensor) = 1, the sensor detects water

If the lack of water is minimal (e.g., evaporation or a person gets out):

- The minimum sensor still detects water (SL1 = 1).
- The maximum sensor does not detect water (SL2 = 0).
- ➡ activates automatic filling until conditions are restored and for a maximum of 60 minutes.

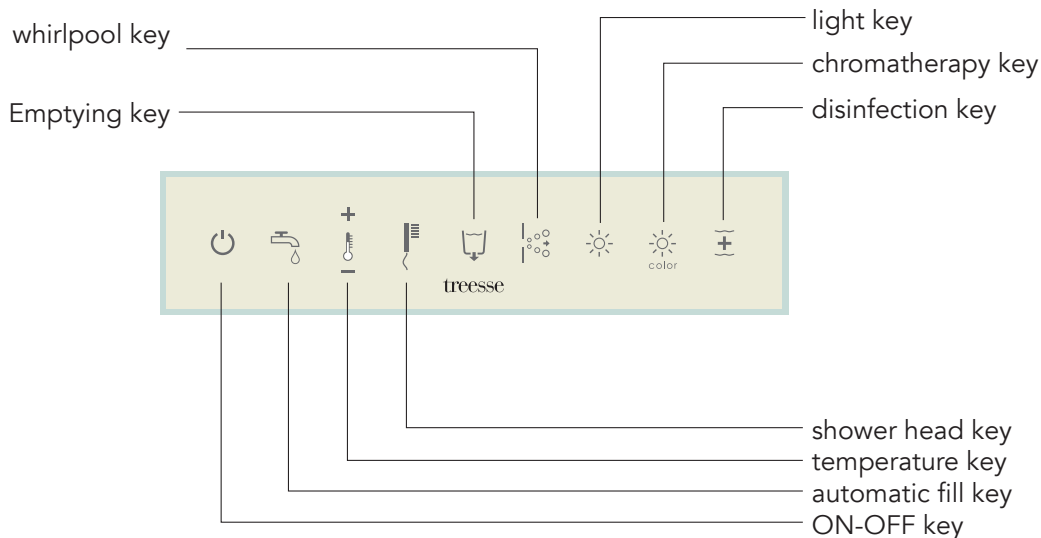
If the lack of water is considerable (e.g., two or more people get out of the bathtub):

- Both the minimum and maximum sensors do not detect water (SL1 = 0, SL2 = 0).
- ➡ The recirculation pump moves the water from the compensation tank to the bathtub.
- The minimum sensor detects water (SL1 = 1, SL2 = 0).
- ➡ activates automatic filling until conditions are restored and for a maximum of 60 minutes.

2

OPERATION TEST

CONTROL PANEL



HOW TO ACTIVATE FUNCTIONS

POWER ON

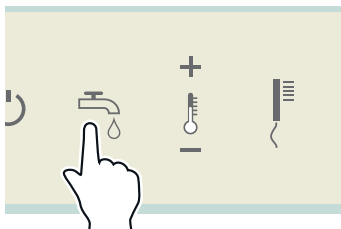


The minipool is powered on by connecting it to the mains. When first turned on, the "ON-OFF" key will be backlit in blue and all others will be turned off, indicating that all the functions are disabled for use.

With the first press of the "ON-OFF" key, its backlight changes from blue to red, while all the others are blue: the system is ready for use.

Pressing the "ON-OFF" key again puts the bathtub in sleep mode, turning off the backlight of the keys and all the active functions (except for the drain).

FILLING



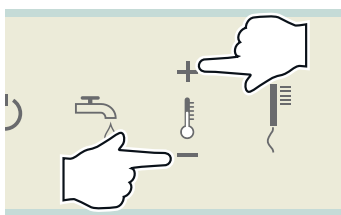
Pressing the "**Fill**" key starts the automatic filling of the bathtub. When pressed, the backlight changes from blue to red until the bathtub reaches a sufficient level for the whirlpool (detected by the SL1 sensor).

If you want to fill the bathtub further to also fill the storage tank (all three sensors detect the water level), it will be necessary to press the key again.

Filling can be interrupted at any moment by the user (regardless of the level reached) by pressing the "Fill" key.

During tank filling (second phase), it is only possible to use the whirlpool function.

WATER TEMPERATURE SETTING



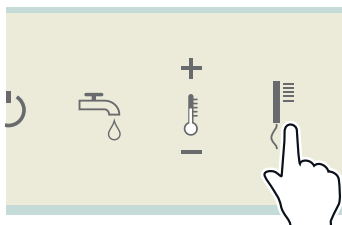
The "**Temperature**" key makes it possible to adjust the temperature of the water in the bathtub and the shower head.

Every time the "+" (increase) or "-" (decrease) keys are pressed, the temperature increases/decreases by **+/-0.5°C**.

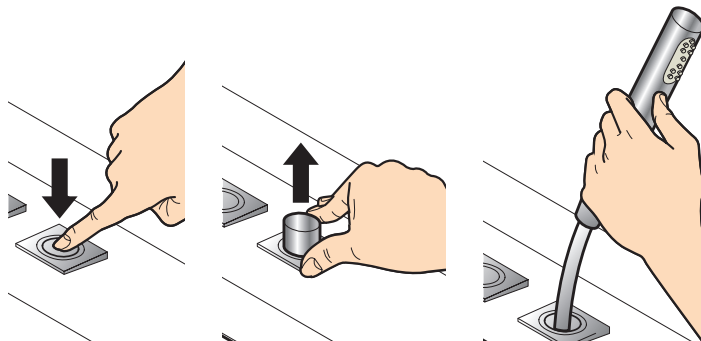
To change the value more quickly hold the key down.

HOW TO ACTIVATE FUNCTIONS

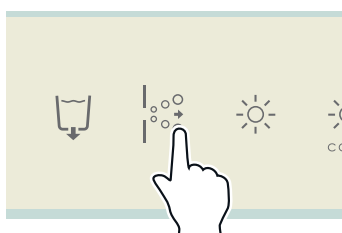
SHOWER HEAD HOUSING



Pressing the **"shower head"** key makes water come out of the shower head. The water continues to flow until the key is pressed again or for a maximum of **20 minutes**. While the water continues the **"shower head"** icon is red. *The function can only be activated with the shower head extracted from its housing: the figure above shows how to do this.*



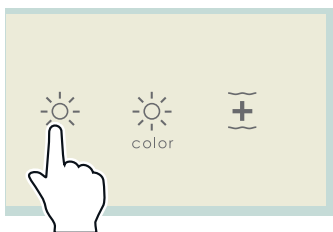
WHIRLPOOL



Pressing the **"Whirlpool"** key activates the whirlpool function. The function remains active until the key is pressed again or for a maximum of **20 minutes**.

When the whirlpool is running the key is red. *If the whirlpool is started but the water level in the minipool is too low, the key will flash red three times and the whirlpool will not start.*

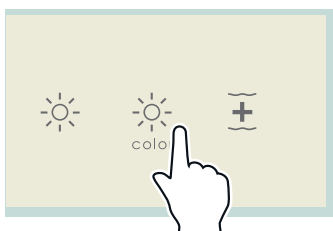
TURNING ON LIGHTS



Pressing the **"Lights"** key activates the LEDs in white light mode. The function remains active until the key is pressed again or for a maximum of **60 minutes**. When the light is on the key is red.

The function can always be activated, even if the water level is low.

TURNING ON CHROMATHERAPY



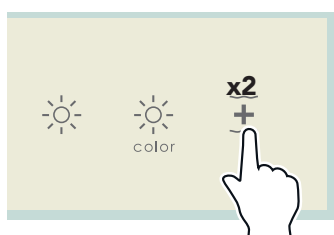
With every quick press of the **"Chromatherapy"** key the colour changes, moving through the 15 available. Choose the one that is best suited to your needs.

A long press (at least four seconds) of the **"Chromatherapy"** key activates a sequence of 15 colours that change automatically.

The function can always be activated, even if the water level is low.

HOW TO ACTIVATE FUNCTIONS

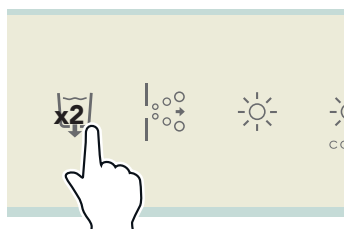
DISINFECTION



DISINFECTANT



EMPTYING



The disinfection function is an automatic cleaning procedure for the bathtub's entire water circuit, including the tanks. It should be carried out after every use of the bathtub or after long periods of disuse.

HOW TO START IT

Press the "**disinfection**" key.

To prevent accidental use, after the first press the key flashes blue. At this point:

- A) If it is not pressed again, the key returns to fixed blue and nothing happens (the system interprets the first press as an accident).
- B) If by the third blue flash the "**disinfection**" key is pressed again, the function starts and the key turns solid red.

Subsequently:

- It is **filled** with water until the tank is completely filled (SL3 sensor).
- The two pumps (whirlpool and recirculation) and the solenoid valve of the **disinfectant** are activated for 30 seconds. The two pumps remain active for an additional five minutes.

After five minutes the bathtub is automatically **drained**.

It is important to leave the bathtub switched on for at least one hour after the end of the disinfection procedure to allow for the complete emptying of the pipes.

If the whirlpool is started but the water level in the minipool is too low or there is no disinfectant in the reservoir, the key will flash red three times and the cleaning will not start.

In this case fill the bathtub or top up the reservoir using the appropriate products.

Pressing the "**empty**" key activates the bathtub's automatic emptying cycle.

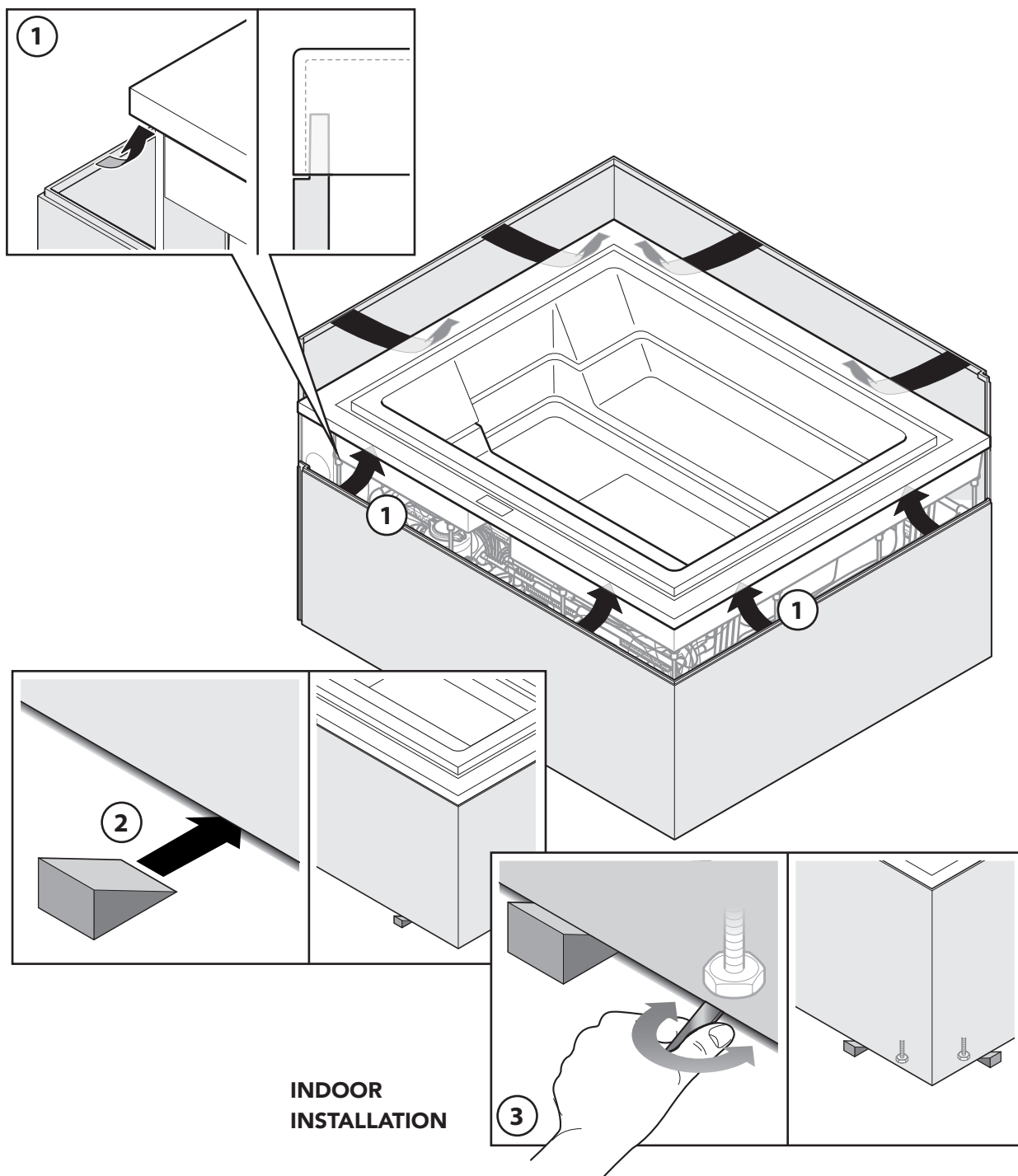
To prevent accidental use, after the first press the "**empty**" key flashes blue. At this point:

- A) If it is not pressed again, the key returns to fixed blue and nothing happens (the system interprets the first press as an accident).
- B) If by the third blue flash the key is pressed again, the emptying cycle starts and the key changes from blue to:
 - Flashing red in the first phase of the cycle (it cannot be interrupted).
 - fixed red in the second phase of the cycle (in this moment it is possible to stop the emptying by pressing the key again).

Throughout the entire emptying cycle, both chromatherapy and the shower head can be activated.

It is important to leave the bathtub switched on for at least one hour after the end of the disinfection procedure to allow for the complete emptying of the pipes.

Mount the laminate resin panels as shown in the figure below.



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