VIBES
by USSPA

Installation, use and maintenance instructions

01 Introduction

Congratulations on purchasing your new VIBES spa - the hydrotherapeutic equipment that offers everyday relaxation, hydrotherapy and plesant moments.

Your new VIBES spa is manufactured from first-class materials and components from leading global producers to guarantee easy operation and offer pleasure for many years.

The purpose of this manual is to provide you with information on how to make the best use of your spa. With proper care and regular maintenance, your spa will become a place of untroubled relaxation.

Your spa

Momento ☐

Natura ☐

Soula ☐

Lucky ☐

Contract number _____

Spa serial number _____

Date of putting into service _____

Contacts

Your service technician _____

Service line _____

_____

Orders of chemical products and accessories

_____

_____

02 Important information for spa users

The design of your VIBES spa meets the highest requirements for this type of equipment. However some basic rules should be observed for using the spa without problems for long time:

1. When the spa is out of operation, keep the appliance covered with the cover that is supplied as a standard feature. The cover not only makes the operation of the spa economical and effective (preventing heat and humidity from escaping) but also contributes considerably to maintaining the water quality in the spa. At the same time, it protects the surface of the spa against any long-term action of UV light and high temperatures which could result in degrading of the material that the spa is produced from. The warranty does not extend this kind of damage.

2. The spa equipment is designed to hold water permanently. Therefore, it is recommended to have the spa filled with water at all times, even when not being used for a longer period of time.

3. Do not turn on the power until the spa is filled with the correct amount of water. Turning on the power automatically starts important components such as controls, heating, and other systems. Starting these components when there is an insufficient water volume inside the spa may result in damage to them that is not covered under the warranty.

4. The device is not intended for use in commercial or public premises (hotels, guest houses, etc.). In the case of such use, it is up to the purchaser to ascertain the applicable standards regarding the installation and use of the spa in such operation, as local laws and standards vary from location to location.

5. Please keep the manual including all attachments ready for reference.

6. The equipment meets all government standards (European guidelines) plus national and technical specifications. The conformity certificate is available upon request.

7. The manufacturer reserves the right to make changes to the equipment.

03 Spa safe operation rules

The spa offers a lot of pleasure and fun, but its use is associated with considerable responsibility. Never forget to observe safety rules when using the spa. Below, there are the basic principles for safe spa use. Failure to follow the listed rules below may result in damage, injury, or fatal injury. It is your responsibility to ensure that you and your family and guests use the spa in an appropriate and reasonable manner.

1. Please read this manual thoroughly before using the spa. Conduct regular visual inspections of the spa. If you find any defect contact your service technician for advice or repair.

2. The spa connection must be made by a person (electrician) with a valid authorization, always using a residual current circuit breaker IΔn = 0.03 A. It is recommended to test the residual current circuit breaker before use.

3. Any extension or disconnection of the power supply cable from the switchboard can lead to the termination of the spa guarantee in case of improper intervention.

4. The use of electrical appliances in the spa is prohibited. The electrical devices should always be located at least 2 meters from the spa.

5. If possible, use only battery-powered devices in the vicinity of the spa.

6. Never interfere in the inspect the spa equipment or the filtration equipment without disconnecting the power supply and reducing the inner pressure.

7. Always avoid the risk of spa overflowing. Defects caused by overflowing are not covered by the warranty.

8. Check the water temperature prior and during the bath use. It is recommended to use an independent thermometer; a failure of the temperature sensor cannot be excluded 100%.

9. Always step into and out of the spa slowly and carefully, as wet surfaces can cause injury.

10. The most advisable method of entering a spa installed in a cabinet on the floor is as follows: Sit down on the edge of the spa and turn carefully, placing your legs one after another into the water. After that, lower yourself into spa, holding on to the edge. Do the reverse to get out of the spa. It is recommended to use a non-slip pad to step on when sitting on the edge and turning out of the spa. If your spa is embedded in the floor, special handles or a rail attached to the wall at the spa should be used to hold on to safely when stepping in and out of spa.

11. Use only unbreakable cups, dishes and utensils in the vicinity of the spa. Try to prevent accidents and injuries.

12. Never use the spa all by yourself.

13. Always pay extra attention to children around and inside the spa. Children should use the spa only in the presence of an adult.

14. Make sure that no one is running near the spa and that there are no disturbances.

15. It is recommended to appoint one person to have responsibility for the spa supervision.

16. When the pumps are running, all suction and skimmer must remain free; avoid the risk of sucking any part of the body into the suction, skimmer.

17. Avoid inserting your fingers into the jet holes, as your fingers may be caught accidentally.

18. The temperature of the spa water should not exceed 40˚C for health reasons. The recommended temperature for use should be above body temperature, i.e. between 37 and 40˚C.

19. People with heart conditions, diabetics, people with high or low blood pressure or other serious illnesses and pregnant women should not enter the spa without first consulting their physician. In such cases, it is recommended to have a water temperature of 36˚C or lower (below body temperature).

20. Too long stay in the spa or too high water temperature can cause the body to overheat - hyperthermia. This is manifested for instance by sweating, headaches, dizziness, dry mouth and throat, increased pulse, irregular breathing. In such cases, it is recommended to place the weakened person on his/her back, cooling him/her with cold compresses, or using a cold shower. If symptoms persist, contact a physician.

21. Never use the spa when or after taking narcotics or various medications that may cause drowsiness, depression, increase or decrease your blood pressure.

22. Never use the spa when or after drinking alcohol. This increases the risk of drowning.

23. Before using the bath, it is necessary to wash yourself with soap and wash away common skin bacteria, creams and deodorants. it is ideal to use classic soap; avoid soaps with ingredients to soften the skin. It is recommended to take a shower without a swimsuit because soap residues may remain in the swimsuit, which in turn may cause foaming of the water.

Suction

Skimmer

24. Make sure the water is always properly maintained and disinfected.

25. Do not enter the spa immediately after treatment with any of the chemical products. For some of the spa chemical water treatment, it can take up to 24 hours to fully dissolve and react.

26. Carefully follow these instructions for the maintenance or repair works of the spa. If you have any questions or doubts, please contact the service department. Using the spa contrary to the instructions invalidates the warranties.

27. For your personal safety, we recommend to have some of the emergency telephone numbers listed near the telephone in use: physician, emergency room, hospital, police, fire brigade.

28. Keep these instructions carefully.

3.1 Warning for the use of the cover

- Do not step on the cover, its construction is not adapted to support the weight of a person nor a child.
- Use plastic locks to minimize the risk of drowning and to secure the cover against strong winds.
- When handling the cover, watch out for children and pets, there is a risk of injury.
- Remove water from its surface before opening the cover, which represents a risk of drowing for children.
- Before entering the spa, remove the entire cover. A partially opened cover leaves risk for persons being trapped underneath.
- Failure to follow instructions may result in an injury or drowning.
- The cover is not a safety cover.
- Protect the cover from radiant heat sources, there is a risk of damage to its components and fire.
- The mechanism is designed for use at a maximum wind speed of up to 10 m/s.

04 General requirements before putting the spa into service

It is recommended that the installation and regular maintenance of the spa is carried out by a qualified service technician!

4.1 General requirements of the spa installation

1. Due to the great weight of the spa, it is necessary to provide a flat, horizontal and sufficiently firm foundation (e.g. a 10-15 cm thick slab of reinforced concrete). Any defects or damage caused by improper foundation are not covered by the warranty.

2. In case of embedded or partially embedded installation, consultation with the spa supplier and respecting the requirements for construction readiness is necessary.

3. In the case of installation on a balcony or roof terrace, consultation with a professional structural and civil engineer is required.

4. In all cases, it is advisable to provide for water drainage in case of an accident so as to avoid flooding the electrical equipment of your spa.

4.2 General requirements for installation

1. Outdoors – it is recommended to install the spa near the house for easy access to and from the spa. It is advisable to have an easy and always free access route. Do not forget to allow for a suitable place for putting the cover aside (the cover is susceptible to damage when used improperly). A spa installed in a sheltered place has lower power consumption demands; any installation under trees increases demands on cover maintenance (pollen, bark, pitch or droppings falling down); any installation in direct sunlight may have negative impacts on the service life of the spa's external parts.

2. Indoors – it is not recommended to install the spa adjacent to a wall; the ideal installation is when the spa can be walked around (and any spilled water wiped up). Do not forget to allow for a suitable place for putting the cover aside (the cover is susceptible to damage when used improperly). The flooring material must be suitable for wet environments and a floor drain must be provided in the room in case of an accident. Ensure adequate ventilation of the room where the spa is installed as water evaporates increasingly during spa operation.

4.3 General requirements for the electrical connection of the spa

1. All spa installations require a separate circuit with current protective switches IΔn = 0.03 A, to which no other devices are connected.

2. As a standard, all spa installations work under a voltage of 230 V, and require a 25 A grounded outlet at a minimum distance of 1,5 m from the spa installation. Alternatively, all spas can be connected to 400 V (a three-phase connection).

05 Connection of the spa

5.1 Disassembly and assembly of the cabinet panel

To access the technological area of the VIBES spa (power cable connection, service, etc.) it is necessary to remove the front panel of the cabinet with VIBES logo.

All interventions into the technology must only be carried out by a qualified service technician!.

Disassembly procedure:

1. Unlock the cover lock and untie the straps of the cover so that you can access the screws located in the corners of the cabinet.

2. Carefully unscrew and remove the left and right corners of the front panel. The corners are always fastened with 2 screws (at the top and bottom).

3. Remove the panel. The panel of the cabinet is inserted under the lip of the spa and at the bottom placed on the securing bracket („L" profile). To remove the panel, first lift the panel up under the lip and tilt the bottom of the panel toward you. Then carefully slide the panel downwards.

When reassembling the cabinet panel, reverse the disassembly procedure.

Watch the video on how to
assembly and disassembly the cabinet panel

5.2 Electrical wiring

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.

The IN.YE 5 switchboard must always be connected to a separate circuit breaker protected by a RCD, supply current not exceeding 30 mA, see points in chapter 4.3 on page 11.
Always check local standards and regulations for the wiring of electrical equipment before installation.

The original Gecko documentation with full details is available at http://www.geckodocs.com/

The technology of VIBES models is equipped with the Gecko YE-5 series switchboard, which are characterized by a long list of technical features. Each of them brings advanced solutions that are available to all spa owners.
The switchboard is equipped with a high-performance 3 kW heat.wav heater with in.flo protection against dry running.

VIBES models can be equipped with two types of Gecko YE-5 switchboards. The Identification of the switchboard type is carried out using the ID NUMBER, which is located on the label of the switchboard cover.

ID NUMBER

ID NUMBER 0610-221045-**338**:
Gecko YE-5-CE switchboard V2 with separate IN.MIX unit for LED lighting control.

ID NUMBER 0610-221107-**633**:
Gecko YE-5-CE switchboard V3 with integrated IN.MIX functions for LED lighting control.

The wiring of both types of switchboards is different. However, the functions and controls are the same. The wiring of both versions is described in separate chapters. The chapters that do not mention the type of switchboard are common to both versions.

5.2.1 Connection of Gecko YE-5; ID NUMBER 0610-221045-338

The following describes the wiring of the Gecko YE-5-CE switchboard; ID NUMBER 0610-221045-338 with integrated IN.MIX functions for LED lighting control.

5.2.1.1 Description of the switchboard and diagram of the base board

Only for Gecko YE-5; ID NUMBER 0610-221045-338!

The wiring diagram is located on the bottom of the Gecko IN.YE 5 enclosure. A list of possible low-level configurations is located on the back of the Gecko IN.YE 5 switchboard.

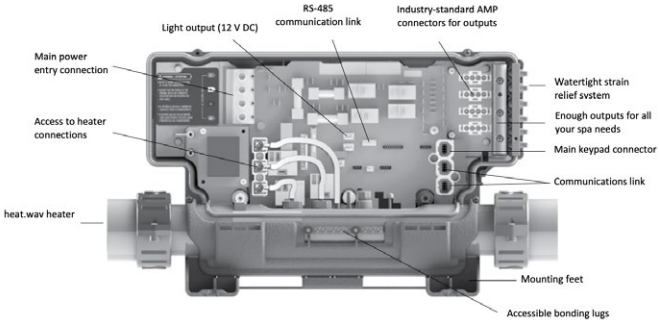
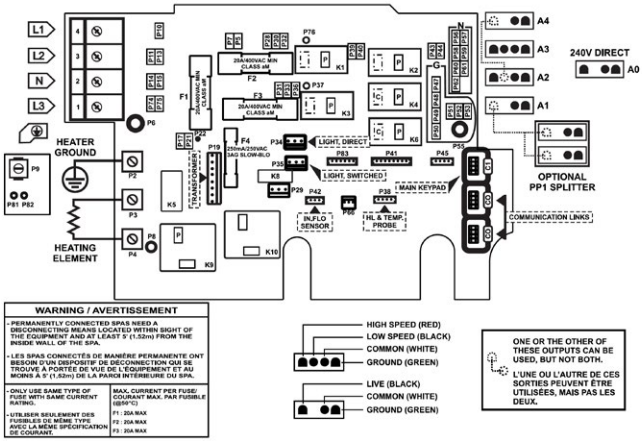


Diagram of the motherboard



5.2.1.2 Control unit connection

Only for Gecko Gecko YE-5; ID NUMBER 0610-221107-338!

Default settings:

Power supply connection	= single-phase
Circuit breaker	= 25 A
Configuration number:	11 = LUCKY
	13 = MOMENTO, NATURA, SOULA

Warning:
The IN.YE 5 switchboard must always be connected to a separate circuit breaker protected by a RCD, supply current not exceeding 30 mA, see points in chapter 4.3 on page 11.
Always check local standards and regulations for the wiring of electrical equipment before installation.

The correct wiring of the electrical distribution box, circuit breaker and circuit protector must be tested before connecting and starting the spa!

The basic configuration is pre-prepared by the manufacturer for connection to a single-phase 25 A circuit breaker!

In the event of a change in the type of power supply (e.g. to a 3-phase connection or to a different type of single-phase circuit breaker), this must be consulted and approved by the spa supplier.
In addition to reconnecting the jumpers defining the power supply type, the configuration must also be changed using the control panel. See the next pages of the manual.

Any intervention in the technology must only be carried out by a qualified service technician!

The switchboard must always be firmly connected to the technology.

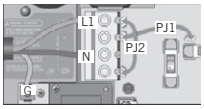
To complete the electrical connections of our control system you will need a Phillips screwdriver and a flat-head screwdriver.

- Remove the screws from the system control lid and remove it.
- Remove 140 mm of cable insulation. Strip away 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 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.
- 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 securley connected, push them back into the box and put the lid back. Do not over tighten cover screws.
- 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).

Before connecting the power supply, it is recommended to ALWAYS check the position of the jumpers on the base board - see the wiring diagram on the underside of the enclosure.

After switching on the power supply it is recommended to ALWAYS check the configuration of the switchboard to see if it matches the customer's supply type and breaker rating, see the following pages of the manual.

In case of any change in the supply type, the control panel must be reconfigured, see next pages of the manual.



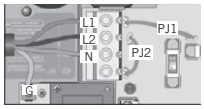
1 phase connection

Phase jumpers	Position
PJ1	P7-P13
PJ2	P10-P74

Single-phase connection (default)

For a single-phase connection it is necessary, by means of jumpers, to connect the P7-P13 (PJ1) and P10-P74 (PJ2) Faston connectors.

L1	brown
N	blue
GND	yellow-green



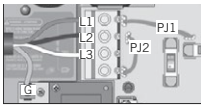
2 phase connection

Phase jumpers	Position
PJ1	P7-P10
PJ2	P13-P74

Two-phase connection

For a two-phase connection it is necessary, by means of jumpers, to connect the P7-P10 (PJ1) and P13-P74 (PJ2) Faston connectors.

L1	brown
L2	black
N	blue
GND	yellow-green



3 phase Delta connection

Phase jumpers	Position
PJ1	P7-P10
PJ2	P13-P74

Three-phase connection

For a three-phase connection, the jumpers at the power supply can be completely disconnected.
The jumpers can also remain connected, in which case they must be connected to the P7-P10 (PJ1) a P11-P13 (PJ2) Faston connectors.

L1	brown
L2	black
L3	grey
N	blue
GND	yellow-green

5.2.1.3 Connection of spa equipment

Only for Gecko Gecko YE-5; ID NUMBER 0610-221107-338!

For the connection to the terminals, the high voltage accessories (motors, blower, etc.) 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 control unit.

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.

Pump 1 dual-speed (230 V, 10 A max.)	L black (low speed)	Relay K2 P (right terminal)
	L brown (high speed)	Relay K1 P (right terminal)
	Neutral	P 57
	GND	P 48

Pump 2 (230 V, 10 A max.) (if equipped)	L	Relay K3 P (right terminal)
	Neutral	P 58
	GND	P 49

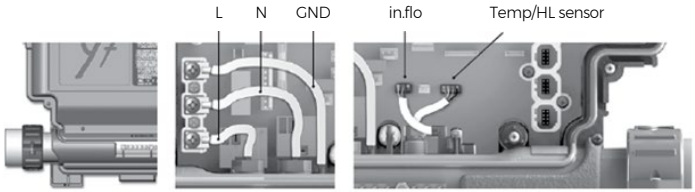
Blower (230 V, 5 A max.)	L	Relay K6 P (right terminal)
	Neutral	P 59
	GND	P 50

Ozonator (230 V)	L	Relay K4 P (right terminal)
	Neutral	P 60
	GND	P 51

LED light – IN.MIX unit (12 V AC, 1A Max.)	L	P 32
	Neutral	P 61
	GND	P 52
	Connector C0	

Control panel	Connector C1 (Main keypad)

El. heater (3 kW, 230 V)	L	P 3
	Neutral	P 4
	GND	P 2
	Flow sensor	P 42 (in.flow sensor)
	Temp/HL sensor	P 38 (hl & temp. probe)



Note:
The heating cables, flow sensor (in.flo) and Temp/HL sensor are always connected to the switchboard. Heating is a standard part of the Gecko IN.YE 5 control unit.

5.2.1.4 LED light – IN.MIX unit

Only for Gecko Gecko YE-5; ID NUMBER 0610-221107-338!

The lighting consists of a Gecko IN.MIX unit and two cable circuits (not light circuits) with a set of interconnected LEDs around the perimeter of the spa. One circuit is wired usually for pillows and interior lighting (diverters, main lights).
The other circuit is usually wired to the corners of the cabinet and to any additional LED lighting that could not be connected to the first circuit.

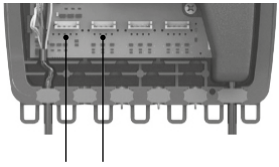
The LED lighting colour settings are automatically loaded in the left scrolling menu on the control panel (bulb icon).

Notification:
Both cable circuits are always controlled together = same colour.
Although the control panel display shows three light circuits (3 bulbs), the LED spa lighting is only controlled by the first circuit.

Connecting the Gecko IN.MIX unit:

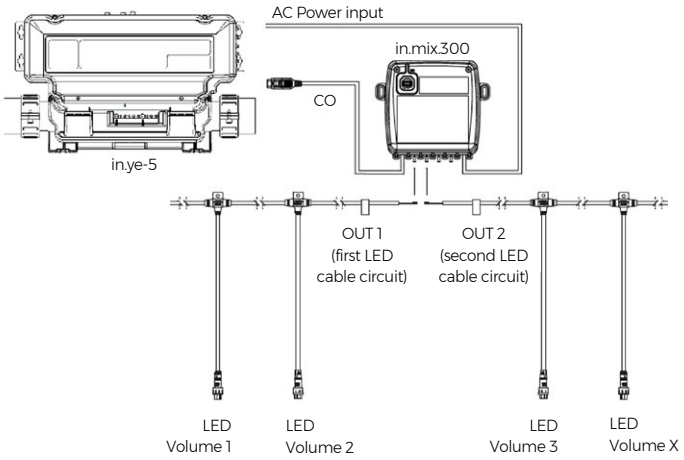
LED light – IN.MIX unit (12 V AC, 1A Max.)	L	P 32
	Neutral	P 61
	GND	P 52
	Connector C0	

LED circuits are connected to IN.MIX unit to OUT1 and OUT2 outputs.



OUT 1 (first LED cable circuit)

OUT 2 (second LED cable circuit)



The connection between the connecting cable and the LEDs is made with a waterproof connector. Connection and disconnection is done with a bayonet connector (turning clockwise/counterclockwise).

LED cable connection

5.2.2 Connection of Gecko YE-5; ID NUMBER 0610-221107-633

The following describes the wiring of the Gecko YE-5-CE switchboard; ID NUMBER 0610-221107-633 with integrated IN.MIX functions for LED lighting control.

5.2.2.1 Description of the switchboard and diagram of the base board

Only for Gecko YE-5; ID NUMBER 0610-221107-633!

The wiring diagram of the in.ye 5 switchboard is located on the bottom of the switchboard cover. A list of possible low-level configurations is located on the back of the Gecko IN.YE 5 switchboard.

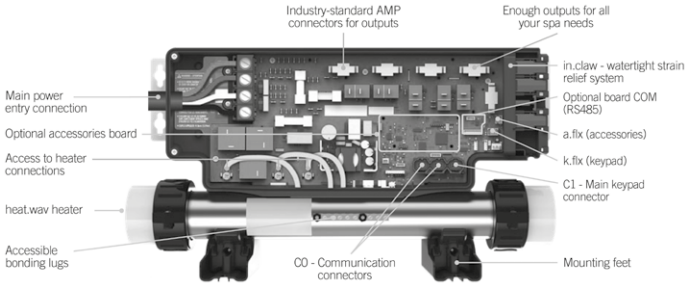
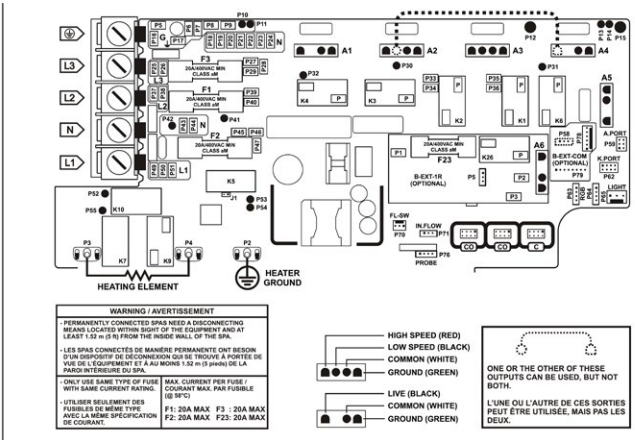


Diagram of the motherboard



5.2.2.2 Control unit connection

Only for Gecko Gecko YE-5; ID NUMBER 0610-221107-338!

Default settings:

Power supply connection	= single-phase
Circuit breaker	= 25 A
Configuration number:	30 = LUCKY
	34 = MOMENTO, NATURA, SOULA

Warning:
The IN.YE 5 switchboard must always be connected to a separate circuit breaker protected by a RCD, supply current not exceeding 30 mA, see points in chapter 4.3 on page 11.
Always check local standards and regulations for the wiring of electrical equipment before installation.

The correct wiring of the electrical distribution box, circuit breaker and circuit

protector must be tested before connecting and starting the spa!

The basic configuration is pre-prepared by the manufacturer for connection to a single-phase 25 A circuit breaker!

In the event of a change in the type of power supply (e.g. to a 3-phase connection or to a different type of single-phase circuit breaker), this must be consulted and approved by the spa supplier.
In addition to reconnecting the jumpers defining the power supply type, the configuration must also be changed using the control panel. See the next pages of the manual.

Any intervention in the technology must only be carried out by a qualified service technician!

The switchboard must always be firmly connected to the technology.

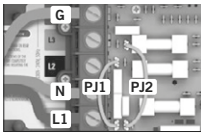
To complete the electrical connections of our control system you will need a Phillips screwdriver and a flat-head screwdriver.

- Remove the screws from the system control lid and remove it.
- Remove 140 mm of cable insulation. Strip away 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 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.
- 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 securley connected, push them back into the box and put the lid back. Do not over tighten cover screws.
- 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).

Before connecting the power supply, it is recommended to ALWAYS check the position of the jumpers on the base board - see the wiring diagram on the underside of the enclosure.

After switching on the power supply it is recommended to ALWAYS check the configuration of the switchboard to see if it matches the customer's supply type and breaker rating, see the following pages of the manual.

In case of any change in the supply type, the control panel must be reconfigured, see next pages of the manual.



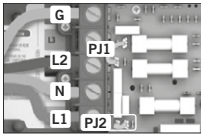
1 phase connection

Phase jumpers	Position
PJ1	P37-P49
PJ2	P50-P26

Single-phase connection (default)

For a single-phase connection it is necessary, by means of jumpers, to connect the P37-P49 (PJ1) and P50-P26 (PJ2) faston connectors

L1	brown
Neutral	blue
GND	yellow-green



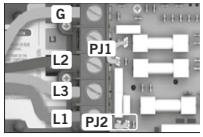
2 phase connection

Phase jumpers	Position
PJ1	P37-P26
PJ2	P50-P49

Two-phase connection

For a two-phase connection it is necessary, by means of jumpers, to connect the P37-P26 (PJ1) and P50-P49 (PJ2) faston connectors.

L1	brown
L2	black
Neutral	blue
GND	yellow-green



3 phase Delta connection

Phase jumpers	Position
PJ1	P37-P26
PJ2	P50-P49

Three-phase connection

For a three-phase connection, the jumpers can be completely disconnected. The jumpers can also remain connected, in that case they must be connected to the P37-P38 (PJ1) and P50-P49 (PJ2) faston connectors.

L1	brown
L2	black
L3	grey
Neutral	blue
GND	yellow-green

5.2.2.3 Connection of spa equipment

Only for Gecko YE-5; ID NUMBER 0610-221107-633!

The A1-A5 outputs for the original Gecko AMP connectors (if equipped) can be used to connect the devices. Alternatively, devices can be connected to the relay terminals using flat fastons.

Only 230 V accessories may be connected to the corresponding terminals of the control unit.

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.

LUCKY – basic equipment

Pump 1 dual-speed (230 V, 10 A max.)	Connector A3	
	or alternatively:	
	L black (low speed)	Relay K2 P (right terminal)
	L brown (high speed)	Relay K1 P (right terminal)
	Neutral	P 20
	GND	P 8

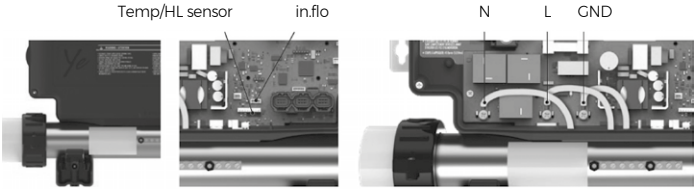
Blower (230 V, 5 A max.)	Connector A2	
	or alternatively:	
	L	Relay K3 P (right terminal)
	Neutral	P 21
	GND	P 9

Ozonator (230 V)	Connector A1	

LED light (12 V AC, 1A Max.)	Connector P63 and P64	

Control panel	Connector C (Main keypad)	

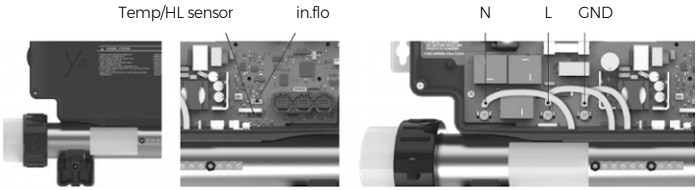
El. heater (3 kW, 230 V)	L	P 3
	Neutral	P 4
	GND	P 2
	Flow sensor	P 71 (in.flow sensor)
	Temp/HL sensor	P 76 (hl & temp. probe)



Note:
The heating cables, flow sensor (in.flo) and Temp/HL sensor are always connected to the switchboard. Heating is a standard part of the Gecko IN.YE 5 control unit.

MOMENTO, NATURA, SOULA – basic equipment

Pump 1 dual-speed (230 V, 10 A max.)	Connector A3	
	or alternatively:	
	L black (low speed)	Relay K2 P (right terminal)
	L brown (high speed)	Relay K1 P (right terminal)
	Neutral	P 20
	GND	P 8
Pump 2 (230 V, 10 A max.)	Connector A2	
	or alternatively:	
	L	Relay K3 P (right terminal)
	Neutral	P 21
	GND	P 9
Blower (230 V, 5 A max.)	L	Relay K6 P (right terminal)
	Neutral	P 19
	GND	P 7
Ozonator (230 V)	Connector A1	
LED light (12 V AC, 1A Max.)	Connector P63 and P64	
Control panel	Connector C (Main keypad)	
El. heater (3 kW, 230 V)	L	P 3
	Neutral	P 4
	GND	P 2
	Flow sensor	P 71 (in.flow sensor)
	Temp/HL sensor	P 76 (hl & temp. probe)



Note:
The heating cables, flow sensor (in.flo) and Temp/HL sensor are always connected to the switchboard. Heating is a standard part of the Gecko IN.YE 5 control unit.

5.2.2.4 LED light – integrated IN.MIX function

Only for Gecko YE-5; ID NUMBER 0610-221107-633!

The lighting consists of two cable circuits (not light circuits) with a set of interconnected LEDs around the perimeter of the spa. One is wired usually for pillows and interior lighting (diverters, main lights). The other circuit is usually

wired to the corners of the cabinet and to any additional LED lighting that could not be connected to the first circuit.

The Gecko circuits are plugged into connectors P63 and P64.

The LED lighting colour settings are automatically loaded in the left scrolling menu on the control panel (bulb icon).

Notification:
Both cable circuits are always controlled together = same colour.

The connection between the connecting cable and the LEDs is made with a waterproof connector. Connection and disconnection is done with a bayonet connector (turning clockwise/counterclockwise).

LED cable connection

5.2.3 in.touch 2 connection (if equipped)

in.touch 2 modules allow wireless connection of the spa to the internet and its remote control.

in.touch 2 - package contents

The in.touch 2 communication cable plugs into any C0 connector.

in.touch 2 module (if fitted)	Connector C0

The original Gecko documentation for the in.touch 2 modules and mobile app, with all details, is available on the geckointouch.com website or on request from your dealer.

5.2.4 Configuration of the control unit

The configuration of the switchboard is always carried out during the production of the spa. Therefore, for switchboards delivered with the spa, it is not necessary to do so unless the electrical supply parameters (number of phases, breaker sizes) need to be changed.

Configuration must be carried out for switchboards supplied as spare parts if they are used on a specific model.

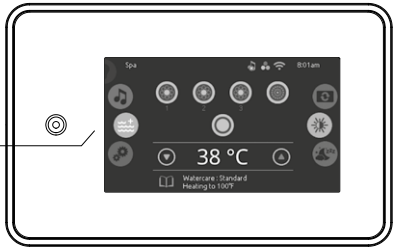
Warning:
Replacement switchboards are always supplied in their default condition by the manufacturer Gecko.
They are set to three-phase power supply and 16 A circuit breaker (3 x 16 A).

If you are installing a replacement switchboard on an existing spa:

- **Before connecting the power supply, it is recommended to ALWAYS check the position of the jumpers on the base board - see the wiring diagram on the underside of the enclosure.**
- **After switching on the power supply it is recommended to ALWAYS check the configuration of the switchboard to see if it matches the customer's supply type and breaker rating.**
- **In case of any change in the supply type, the control panel must be reconfigured.**

Configuration can only be done using the in.k1001 control panel.

mode selection wheel
(settings and accessories)



All the steps are also described on the sheet on the back of the switchboard (in EN).

Default settings Gecko YE-5; ID NUMBER 0610-221107-338:
Configuration number:
11 = LUCKY
13 = MOMENTO, NATURA, SOULA

Default settings Gecko YE-5; ID NUMBER 0610-221107-633:
Configuration number:
30 = LUCKY
34 = MOMENTO, NATURA, SOULA

Procedure for setting low-level parameters (model type, number of motors, supply phase and circuit breaker values):

1. Use the Settings button to accessthe configuration menu.

2. In the menu, locate Electrical Config. And press to confirm the selection.

3. The following settings can be made in the Electrical Config. window:
   a) Config - basic configuration number (setting the number of motors and filtering method). Set according to the model and type of switchboard - see above.
   b) Phase - set the type of power supply, single phase/two phase/three phase.
   c) Current - set the breaker size. Values from 10 to 48 can be set.
   If you are prompted for a password during changes, enter 5555 and confirm.

4. Confirm the setting by holding the Apply button for 5 seconds. The switchboard will then restart.
   After the switchboard has restarted, verify that all changed items have been saved to the settings. In certain cases, it may be necessary to additionally adjust the circuit breaker settings.

5.2.5 Completing the installation

Once the cables for all devices are routed through the holes on the sides of switchboard cover, pull the plastic cable holder and replace the cover. Do not overtighten the screws of the plastic holder or the cover to avoid damaging them.

IMPORTANT
Verify that all ground wires are connected to the ground terminal or GND fastons and terminals on the baseboard.
Make sure all valves in the technology are open and the drain outlet is closed.

06 Commissioning the spa

Before putting your new spa into commission, get the following ready:

- sufficient water supply to fill the spa
- starter set of the chemicals
- open the filter cover before filling to prevent the filter circuit from venting

1. Clean the spa if necessary. Fill the spa with water using a hose it is ideal to fill the spa through an open filter - up to arrows on the skimmer "door". We recommend filling through an open filtration container and filter cartridge to prevent any dirt from the water hose from entering.


Skimmer

Proper
water level

Note:

- The temperature of the inflowing water must not exceed 36°C.
- Avoid the spa overflowing when filling; defects caused by spa overflowing are not covered by the warranty.
- It is recommended to use mains water, do not use untreated water, e.g. from the well; untreated water may contain various minerals, which may complicate the maintenance of water in the spa or damage some of the spa components; such defects are not covered by the warranty.
- If a softener is used when filling the spa with water, make sure that the minimum water hardness is more than 8°N (too soft water is strongly corrosive; to increase the water hardness, add some water without softener or you can use water hardener).

2. Close and secure the filter cover and have the air-release valve on the cover slightly loosened.

3. Check and turn on the main circuit breaker and the current disconecting switch (GFCI).

4. When the power is turned on, the heating pump starts automatically for about 2-5 minutes. During this time, bleed system using the filter valve.

   For a given period of time, the in.flo control is started, during which the water temperature is measured and the sufficient flow in the pump 1 circuit is verified. The display shows «- - -» instead of the water temperature during the control. If the flow is stable and sufficient, the spa switches to normal mode.

5. Turn on pump 1 and pump 2 (pump 2 - if equipped) and check for leaks from the flange couplings on the pumps - if necessary, tighten them by hand. Turn off pump 1 and 2 (pump 2 - if equipped).

Flanges of
the massage
pumps

6. Set the required water temperature on the control panel. For the correct hydro massage effect, a water temperature higher than body temperature is recommended (the time taken for the water to heat depends on the size of the spa and the ambient temperature).
   If necessary, set the language, date and time on the control panel, check the filter cycle settings and other settings.

7. Add water clarifier and an agent for metal component protection.

8. Perform the alkalinity test using test papers and adjust accordingly.

Heater flanges

9. Measure the pH value with test papers and adjust accordingly.

10. Check the free chlorine value, add chlorine granulate if necessary.

11. Add the Non-Chlorine Shock agent.

12. Cover the spa with the cover to achieve fast heating of the spa water.

13. Once the water in the spa has heated up, check the tightness of the pump flanges and heater again. Tighten by hand if necessary.

Perform recommended maintenance on time and enjoy your SPA!

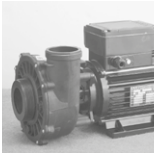
07 Technology components

7.1 Basic technology components

Control unit with a heater
The control unit ensures the operation of the entire spa system. It is supplied by a leading world manufacturer - the company GECKO.
The special heating heats the water before returning it to the spa.

Warning:
Make sure you have properly treated water. Untreated water damages the metal parts of the device or creates calcium deposits that may possibly cause failure of the heater.

Pump with motors – Pump 1, Pump 2 (if fitted)
The pumps power the hydro-massage jet system in your spa. Jet control is performed by the TurboBoost system. An installed dual-speed pump serves for mechanical filtration (at low speed) and for hydro massages (at standard speed). If fitted, there is a second, single-speed pump.



Air blower
The air blower sucks air into the air jet system and further increases the intensity of the hydro massage by being able to drive pressurized air into the hydro-massage jet system - the so-called Turbo Boost System.

Ozonator
By default, each VIBES spa is equipped with an ozonator with a sophisticated way of water ozonization. The ozonator generates O_3 molecules from passing air by means of an electrical discharge (Corona discharge). Ozonization clearly contributes to the ease of keeping your spa water clean and it also reduces the consumption of chemicals.

Control panel
Modern control panel Gecko in.k1001™ with a large, color touch screen. Thanks to the intuitive operation and user-friendly interface, the operation of your spa will be easy and comfortable.

Warning:
Never interfere with any electrical parts of your spa. If any component does not work properly, call an authorized service technician; this also avoids the possibility of voiding the warranty.

7.2 Optional accessories

7.2.1 in.touch 2 (if equipped)

The in.touch 2 app allows you to control your spa using your home network or an Internet connection anywhere in the world. This gives you full control over the settings for filter cycles, water temperature, economy modes, etc. Push notifications inform you about the status of the spa, even if you don't have the app open. 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 two pre-paired radio frequency transmitters, one being part of your spa system and the second one being connected to your Internet router.

Both modules are interconnected and allow instant communication between the device and the spa. They provide a strong and long range communication signal and make it easy to control and set all spa functions from the device.

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

The original Gecko documentation for the in.touch 2 modules and mobile app, with all details, is available on the geckointouch.com website or on request from your dealer.

7.2.2 Installation of the Coverlift

1. Disassemble the rear panel of the cabinet (see chapter 5.1. Disassembly and assembly of the cabinet panel).
2. Remove the covers (two on each side) of the pre-drilled holes at the bottom of the back of the spa (the side opposite the technology).
3. Attach the jack anchor to the prepared holes on both sides with the supplied screws so that the round bracket faces the edge of the spa.
4. Insert the black plastic grip into both mounts.
5. Thread one anchor ring onto each side of the lifting bar.
6. Slide the lifting bar into both retainers one at a time.
7. Thread the remaining two anchor rings onto the lifting bar, one on each side.

8. Measure a distance of 5 cm between the lifting bar and the side panel of the spa, which is necessary for the smooth movement of the lifting mechanism.

9. At this position of the lifting bar (5 cm from the side panel of the spa) tighten the first anchor ring on one side (at the edge of the spa).

10. Tighten the second anchor ring on this side.

11. Repeat this procedure (points 8 - 10) on the other side of the lifting bar.

12. Remove the hole covers on the cabinet panel.

13. Thread the washer, the textile cable of the coverlift and the washer on the enclosed screw.

14. Screw the prepared assembly into the prepared hole in the cabinet panel.

15. Repeat the procedure (points 13 - 14) on the other side.

16. Place the lifting bar on the closed cover. The lifting mechanism is ready for use.

Watch the video how to install the Coverlift

08 Closing and opening the cover

1. Place the cover over the lip of the spa so that the sewn straps face the corners of the cabinet.

2. Slip the strap under the bar located in the corner under the cabinet lip.

3. Snap the strap into the anti-clip sewn onto the cover.

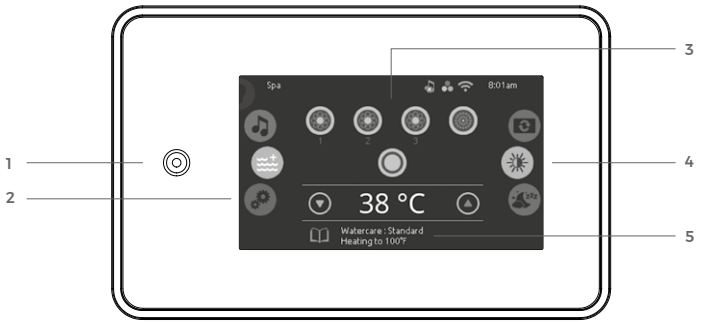
4. Use the enclosed key to lock the locker on the strap.

3. The cover is securely closed.

09 Spa control and functions

9.1 Spa control and functions

The modern Gecko in.k 1001 touch control panel with a large colour display is used to control all spa functions.



1. all-on or all-off key (one touch activation)
2. mode selection wheel (settings and accessories)
3. interactive display icons (main spa functions)
4. direct to function selection wheel (settings and additional options)
5. on-screen system messages and reminders

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

system is connected to wifi

system is not connected to wifi

in.mix (LED light) is installed

The set time is also displayed in the top right corner of the screen.

Note:
After an extended power failure, the set date and time may be reset and must be manually set again. If the in.touch 2 add-on is installed, the date and time is automatically set from the internet after a power restart.

The lighting icon is animated on the display when the lighting is on.
The message „wipe screen" appears when too much water is detected on the touch screen. Simply wipe away excess water.

9.1.1 Switching on the control panel

Touch the screen to exit sleep mode. 3 minutes after the last pump is turned off, the screen will shut off if there is no touch activity.
Then follow the instructions on the screen to access the main screen.
You must always move the white icon to the corresponding location on the screen with your finger (e.g. the white gear to the second icon).

9.1.2 All-on, all-off target key

in.k1000+ features an all-on or all-off one touch activation key. When pressed, it stops or starts all working components and accessories at once.

9.1.3 Main screen

From the home page, you can access the following modes:

- 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.

You can also start massages (icons 1 to 3) and lighting, set the water temperature and see any active error messages or maintenance information at the bottom of the screen.

The number of massage modes and icons on the main page varies by model and also by which optional equipment is installed.

9.1.4 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 display 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 desire icon menu is highlighted in the middle.

9.1.5 Starting pump 1

Press the Pump 1 button (icon 1) to switch pump 1 to slow speed. Press the button again to switch the pump to high speed. Pressing the button again turns the pump off. If you don't turn off the pumps manually, the built-in timer will automatically turn it off after 20 minutes.

The icon is animated on the display while the pump is running.

Note:
In the winter months, cooler water from the jets may flow for a short period of time due to the ambient temperature when the pump is turned on. In a few seconds, the temperatures in the spa and in the hydro-massage systems is settled.

9.1.6 Starting pump 2 (if equipped)

Press Pump 2 (icon 2) to switch on pump 2. Press the button again to turn the pump off. If you do not turn the pump off manually, the built-in timer automatically turns it off after 20 minutes.

The pump 2 icon is animated on the display when the pump is running.

Note:
In the winter months, cooler water from the jets may flow for a short period of time due to the ambient temperature when the pump is turned on. In a few seconds, the temperatures in the spa and in the hydro-massage systems is settled.

9.1.7 Starting the air blower

Press the Air Blower button (icon 3) to switch on the air blower. Press the button again to turn the air blower off. If you do not turn the air blower off manually, the built-in timer automatically turns it off after 20 minutes.

The air blower icon is animated on the display when the air blower is running.

On some models without pump 2, the air blower icon is in position 2.

Note:
The system of the air massage jets is used for massage of nerve endings in the skin. Therefore, for the correct effect, the temperature of the air flowing from the jets is always lower than the water temperature.

9.1.8 Turning on the lights - Rainbow Light

Press the Lighting button to switch on the lighting. Press the button again to turn the lights off. If you do not turn the lights off manually, the built-in timer

will turn off the lights automatically after 2 hours.
The lighting icon is animated on the display when the lighting is on.
LED lighting colour settings can be made on the in.mix screen. For a detailed description, see chapter 9.1.21 Color mode.

9.1.9 Water temperature

The temperature shown at the bottom of the screen indicates the current water temperature. Use the Up and Down icons 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 in white.

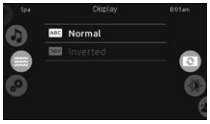
When the set value is lower than the current temperature Cooling to xx.x will appear below.

When the set value is higher than the current temperature, Heating to xx.x will be indicated under the value.

If the water temperature drops by 0.5 ˚C below the set temperature, the electric heater starts automatically and heats the water by 0.5 ˚C above the set temperature. After that, the electric heater automatically stops.
When starting the heater, the display shows „Heating suspended“ for a few seconds.

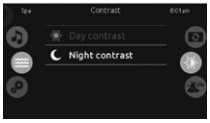
The desired water temperature is set in 0.5 ˚C increments. Range of adjustable temperatures: 15 ˚C to 40 ˚C.

Every 15 to 90 minutes the heating pump will run for few minutes to ensure accurate water temperature readings as well as avoid heater activation in dry conditions. After verifying pump activation and taking a water temperature reading if required, the system automatically turns the heater on to reach and maintain water temperature at Set Point.



9.1.10 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.



9.1.11 Display contrast

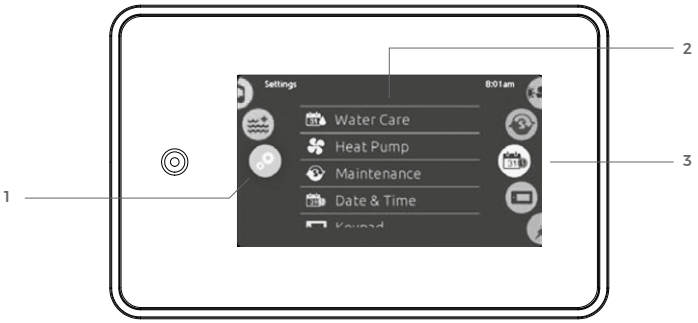
To modify the display contrast settings, slide the right wheel until the display contrast icon is highlighted in the middle.
Simply touch the line of the contrast you want to select.

9.1.12 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.

9.1.13 Settings

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



1. mode selection wheel: settings icon
2. list of featured items
3. direct to function selection wheel:
   - water care
   - maintenance
   - date & time
   - keypad
   - electrical config
   - miscellaneous
   - about

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

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

9.1.14 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 7 °C.

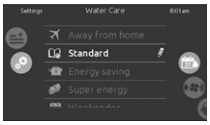
Standard (default)
The spa will never be in economy mode and will be filtering according to the control unit low level configuration. By default: 2 + 2 hours a day.

Energy Savings
The spa will be in economy mode during the peak hours of the day (Monday-Friday; default: from 6:00 to 18:00) 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 (default: from 6:00 to 18:00).

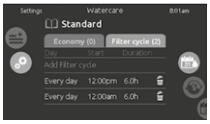
Weekender
The spa will be in economy mode from Monday to Friday, and will run normally on the weekend.

Default Settings
When you select Default Settings you will be asked to confirm your choice. Doing so will restore all Water care schedules to default settings.



Modifying water care schedules
To modify a Water care category, touch the pencil 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 orange line labelled „Add Economy" . 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 orange line labelled „Add filter cycle". To delete a schedule, touch the garbage can icon at the right end of the desired line.

In Economy mode, the set point will be reduced by 7 ˚C, which means that the heating system will not be engaged unless the temperature falls to 7 ˚C below the spa's set temperature.

The filtration schedule shown on the screen will be applied to the filtration pump (pump 1) and ozonator.
For more information on filtration, go to chapter 9.2.3 Filtration and ozonator functions.

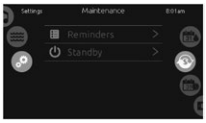
You can modify the programmed schedules by selecting one and adjusting the schedule.
You have several possibilities for the schedule (Mon-Fri, weekend, every day, or single days).
The schedules will be repeated every week.
The time and duration are set in 30 minute increments.

Once you have set the schedule, press „Confirm".
If you don't want to keep any changes, press „Cancel" or use the calendar icon to go back.

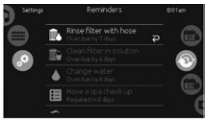
9.1.15 Maintenance

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:
- Reminders
- Standby

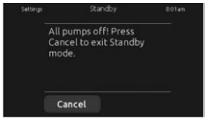
Simply touch the line of the item you want to change.



Reminders
The 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.



Standby
Standby allows you to service the spa for 30 minutes. For example, cleaning the filter, cleaning the skimmer, or other activities.
During this time, the pumps are blocked and after 30 minutes they are automatically unblocked and the spa is put into normal operation.



When Standby is activated, the display shows the following information:
All pumps off! To exit Standby, press Cancel.

To end maintenance, press Cancel to exit this mode.
When you exit the mode, the main page is displayed.

9.1.16 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.

Note:
After an extended power failure, the date and time may be reset and must be manually set again. If the in.touch 2 add-on is installed, the date and time is automatically set from the internet after a power restart.

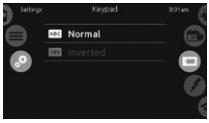
Set date
Here you can adjust the year, month and date. Simply swipe up and down the column you want to change, and select the desired value.
When done, touch the calendar icon at the right of the screen.
This saves the settings.

Set time
Here you can change the hour, minute and time format (24h / 12h). 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.
This saves the settings.

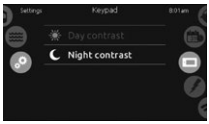
9.1.17 Keypad settings

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.

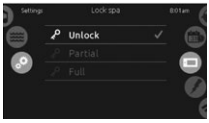


Display orientation
Use this page to set or change the normal or inverted display orientation.



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

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 Full Lock is selected, all functions are locked.
In Partial Lock, you may only activate accessories. Settings may not be changed in this mode.

If you want to lock the keypad select a 4-digit code. The same code will be needed to unlock the keypad.

Next time you want to lock the keypad, you 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.

Keypad color
When this option is enabled, the keypad rim color can be changed.
8 pre-defined colors are available. If the in.mix is installed, the keypad rim color can also be associated to an in.mix zone.

9.1.18 Electrical Configuration

This section is for service technicians only.
Do not make any changes in this section unless you are a qualified technician.
Any unprofessional intervention may lead to loss of warranty.

9.1.19 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 control unit 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.

If the function is enabled (On status), the filtration operation is temporarily blocked when the water temperature is higher than the desired value.
This limits the secondary heating of the water due to possible higher temperatures in the spa technology during active filtration.

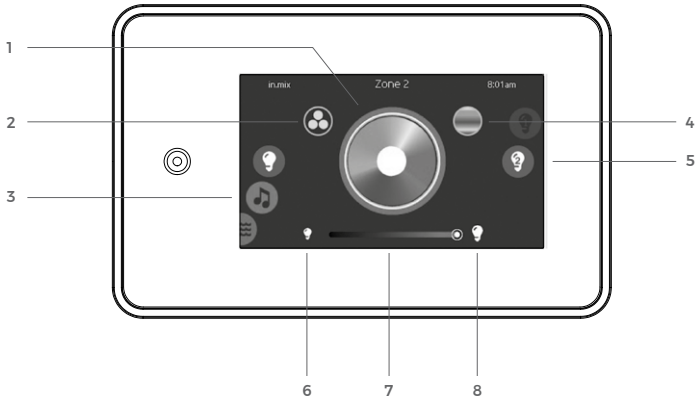
Info messages
Press display/hide key to modify message display.
If hide option is selected, heating suspended and filtering suspended messages will not appear.

9.1.20 About

To get info about your spa system, slide the right wheel until the about icon is highlighted in the middle. Information about the keypad software number and the revision numbers of the different components of your system will be displayed.

9.1.21 Color mode

Only available if in.mix is detected among the spa accessories.



1. color wheel
2. synchronization/ desynchronization icon (inactive)
3. mode selection wheel: in.mix icon
4. rainbow icon (changing colors)
5. zones

Note: Some models may display more than one zone, but only zone 1 is always active. The other zones (2 and 3) are not active

6. off
7. intensity
8. on

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

Color wheel to choose a specific color
Select the color by touching the color wheel.

Changing colors
Touch to activate the colour changing mode. The mode has two options - slower and faster colour change. Select the speed of change by repeatedly touching this button.

Zones
To select a zone, rotate the right hand wheel until the desired icon is highlighted in the middle. You can then change the colour of the zone.
On some spa models, more than one zone may be displayed, but only zone 1 is always active. The other zones (2 and 3) are not active.

On, Off, Intensity
There are two ways to turn in.mix on or off.
The first one is by using the Light icon on the main screen.

The second way is by touching the light bulb icons located each side of the intensity bar. The slider allows you to modify the intensity of the color.

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

9.2 Selected spa functions

9.2.1 Massages and lighting

The massages are controlled by the buttons on the control panel or by using the Gecko in.touch 2 mobile application (if the in.touch 2 option is installed). If the massages are not terminated earlier manually, they are turned off automatically after 20 minutes. The lighting is automatically turned off after 120 minutes.

Note:
In the winter months, cooler water from the jets may flow for a short period of time due to the ambient temperature when the pump is turned on. In a few seconds, the temperatures in the spa and in the hydro-massage systems are settled.
The system of the air massage jets is used for massage of nerve endings in the skin. Therefore, for the correct effect, the temperature of the air flowing from the jets is always lower than the water temperature.

9.2.2 Water heating

The water is heated automatically and is controlled by the spa control unit. When water heating is enabled, the heating pump (slow pump speed 1) is started and this status is shown on the display.

The heating starts when the water temperature drops by 0.5˚C below the required temperature. The heating is turned off when the water temperature exceeds the required water temperature by 0.5˚C.

The required temperature can be set using the Up / Down buttons on the display or by using the Gecko in.touch 2 mobile application (if the in.touch 2 option is installed).

During the massages, the heating function may be reduced due to the high demand of the massage pumps and the air blower.

Note:
The heating pump starts every 15 to 90 minutes (depending on the water temperature and technology temperature) to read the correct water temperature in the spa. After the spa water temperature in the spa has been verified, either the heating pump is turned off or, if necessary, the system automatically turns on the water heating to reach and maintain the water temperature at the set value.

9.2.3 Filtration and function of the ozonator

The filtration is used for the mechanical cleaning of water in the spa, together with ozonization, which contributes to the ease of keeping the water clean in your spa and it also reduces the consumption of chemicals.

It runs in set cycles, which can be selected and changed in the main menu, see chapter 9.1.14 Water care.

A message is shown on the display while filtration is active.

The default filter setting is 2 + 2 hours a day.

The filter pump (slow pump speed 1) and the ozonator are active during filtration. The operation of the ozonator is indicated by the green LED indicator on the ozonator itself.

If any hydro massage pump or air blower is running, the filtration function is automatically interrupted and the ozonator operation is interrupted too. The filtration function is restored (according to the set filter mode) 40 minutes after the last running hydro-massage pump or air blower is turned off.

9.2.4 Standby

The user spa lock mode for cleaning the spa filter and skimmer and any other maintenance activities. In this mode, the entire spa is blocked for 30 minutes. The massage buttons cannot be operated and information on the active mode is shown on the display.

Activation and deactivation are performed using the main menu, see chapter 9.1.15 Maintenance.

9.2.5 Smart Winter mode

It is used as protection against freezing of the water in spa and in the spa technology. The start of the mode and the interval of its repetition depend on the water temperature and the temperature in the spa technology.

During the active mode it is not possible to control the running pumps and air blower.
The mode is automatically terminated after a few minutes or when the desired water and spa temperatures are reached.

When Smart Winter mode is active, a message is shown on the display.

The mode consists of automatically restarting all massage pumps and the air blower (and, if necessary, the heater) when the spa technology detects a possible risk of water freezing.

Do not interrupt the operation of the mode, e.g. by switching off the circuit breaker! There is a risk of freezing water in the spa technology!

9.2.6 Economy mode

In this mode, the required water temperature is automatically reduced by 7°C. The water heater does not turn on if the temperature does not drop by 7°C below the set water temperature.

When the economy mode is active, a message is shown on the display.

It is active according to the settings that can be selected and changed in the main menu, see chapter 9.1.14 Water care.

10 Regular maintenance of the spa

10.1 Filter cleaning and replacement

1. On the display, go to Settings -> Maintenance and activate Standby (see chapter 6.1.9 Standby). The spa will shut down for 30 minutes.

2. Release the pressure valve by turning it counter-clockwise.

3. Pull out the grey flap slightly and turn the outer ring counter-clockwise. Then remove it.

4. Remove the filter container lid, pay attention to the positioning rings.

5. Pull out the cartridge: the cleaned cartridge must be returned within 30 minutes.

   ATTENTION:
   After 30 minutes, the mode will switch automatically! If you are not sure that the filter cartridge will be cleaned within 30 minutes, the filter body must be closed after pulling out the cartridge. If the Standby mode is not active on the display before the cartridge is reinserted into the filter, perform step 1 again to turn off the entire spa system!

6. After cleaning, return the cartridge into the filter body and check that the lower and the upper positioning rings are positioned correctly.

7. Install the filter cover and check that the seal under the cover is OK.

8. After installing the filter cover, fit the outer ring and tighten it slightly clockwise.
   Be careful, do not over-tighten it. Problems with opening may occur during the next cleaning.

9. Press the Cancel button to exit Standby and use the released vent valve to release the air from the filter container. When the water starts to flow from it, tighten it.

Note:
When the mode is exited, the filter pump is automatically started for a few minutes, during which bleeding is required.

10. The spa can be used again now.

10.2 Twice a week

If you use the spa daily, it is advisable to check the water cleanliness twice a week. If necessary, measure and adjust the pH value and alkalinity of the water:

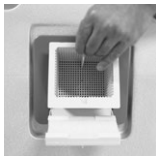
- If the pH value and the alkalinity level are high, add the pH and alkalinity lowering agent (both values are normally decreased with the same preparation); adjust the alkalinity first, then use the pH adjusting chemical.
- If the alkalinity level is within the required limits but the pH value is low, add a pH enhancing agent (this will increase the pH value, the alkalinity level will not change). A correct pH value is very important, long-term low pH value - the water is acidic - it will corrode the metal parts of your spa.
- If the pH value is within the required limits but the alkalinity level is low, add an alkalinity enhancing agent (this will increase the alkalinity level, the pH value will not change).
- It is important to maintain both pH and alkalinity levels well balanced as they try to influence each other. Always adjust the alkalinity level first, only after reaching the correct alkalinity level, proceed to the adjustments of the pH level. The balanced pH values and alkalinity level help to make other chemicals in the spa work effectively.

10.3 Once a week

- Clean the filter, use a new one if necessary.
- Test the spa water with test papers.
- Add a basic sanitizer (e.g. chlorine) to achieve the desired level of free chlorine of 3-5 ppm.
- Add the Non-Chlorine Shock agent to oxygenate the water.
- If necessary, add a suitable product to clarify water, protect against calcium deposits, protect metal components.
- If grease forms on the surface, add a product to eliminate fat in water (enzyme-based preparations can also be used preventively).

10.4 Every other week

Pull out the skimmer basket (suction from the surface) and remove any dirt; after cleaning, put it back in the same position as before cleaning (see the illustrated proced).


10.5 Once a month

Treat the filter cartridge with a special cleaner to remove grease and solid impurities that cannot be removed with a jet of water. Follow the instructions on the product packaging.

DO NOT FORGET

- **Clean the filter.**
- **Always release any air from the filter body after cleaning and filling with fresh water.**
- **Clean the skimmer basket.**
- **Regularly check the tightness of the plastic flanges - they can become loose over time due to operation (vibrations); if you see a few drops of water under the flange, tighten it only by hand.**
- **Keep the pH value and alkalinity at an appropriate level to prevent damage to the spa components and ensure the effective functioning of the chemical products.**

Recommendation
Measure the water parameters and dispense chemicals into water only when the spa is not in use.
After adding the chemical agents into the water, it is recommended to measure the water parameters no earlier than 12 hours from the time of dosing.

IMPORTANT
The quality of the water in the spa is entirely dependent on the water source, the way the spa is used by the user and the water and spa maintenance performed according to the instructions.
The spa itself is fitted with a filtration, which is primarily used to trap mechanical impurities and dead bacteria from the size of 20 microns. Furthermore, each spa is fitted with an ozonator as a standard, which oxidizes the water and significantly helps to disinfect the water, but ozone is not able to ensure 100% disinfection of all the water in the spa.
The materials and components used to make the spa that are in contact with water cannot adversely affect the quality of the spa water.

11 Maintenance of the spa

The following text gives the basic information on how to maintain and protect your spa. Regular and correct maintenance will ensure a trouble-free and comfortable use of the spa.

11.1 Changing the spa water

For normal family use, we recommend changing the spa water every 3–6 months. The frequency of the water change depends size of the spa (a spa with a smaller volume of water requires more frequent water changes), the number of people using the spa, the frequency and duration of the spa use.

Always consider whether water change is a more cost-effective solution than using increased disinfection dosage after a heavier spa load (family celebration, party, etc.).

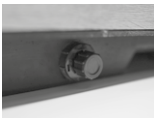
Always turn off the power supply of the spa before draining the water from the spa. Turn on the supply only when the spa is filled to the required height.

We do not recommend changing the water during the winter months. This will prevent the risk of freezing of the water remaining in the system. Such defects are not covered by the warranty.

When draining / filling water on sunny days, avoid long-term exposure of the sun to the spa surface, use a cover.

In case you do not use the spa for a long period of time, it is necessary to cover the empty spa with a cover to prevent extreme temperatures from affecting the surface of the shell. Such defects are not covered by the warranty.

11.1.1 Draining the spa



Drainage outlet

1. Before changing the water, it is recommended to perform the so-called spa shock to clean all spa systems, including hoses. For the shock, use a non-stabilized chlorine based product (e.g. Flash Sanitizer). These special products suddenly increase the concentration of disinfection in the spa water. All spa pumps must be turned on for at least 2-3 hours for thorough cleaning.

2. Drain the water from the spa. Use one of the following options:

- Turn off the main power breaker, open the filter lid, put one end of a garden hose in a drain or in the yard and connect the second end to the drainage outlet at the bottom of the cabinet (from the side, under the cabinet). Remove the remaining water from the bottom with a bucket and a cloth.

After connecting the hose to this outlet, turn the drain nut counterclockwise to open the drain valve.

Note:
You can connect a ¾" hose with a corresponding thread to the drainage outlet. It is recommended to open (anti-clockwise) and close (clockwise) the drain outlet only by hand! Using the tool may cause damage. We recommend always using the safety cap, even after the outlet has been closed.

- Leave the main circuit breaker turned on and the filter cover closed, position the other end of the hose against the non-rotating jet; to start the jet, turn on the corresponding pump for a short period of time. Let the water to flow through the hose so that the water flows out; now move the end of the hose immersed in the spa from the jet to the bottom of the spa so that the water is sucked up from this point. After inserting the hose into the bottom of the spa, turn off the pump and the main circuit breaker.

- Turn off the main power breaker, insert a submersible pump in the spa and place the hose in a suitable area (e.g. a drain, yard or garden). Remove the remaining water from the bottom with a bucket and a cloth.

11.1.2 Filling the spa

The spa can be filled using a garden hose. To avoid possible complications, there are a few recommendations related to the filling of the spa:

- Use water from a series, not untreated water, e.g. wells; untreated water may contain various minerals, which may complicate the maintenance of water in the spa or damage some spa components; such defects are not covered by the warranty.

Flanges of the massage pumps

- The temperature of the inflowing water must not exceed 36°C.

- We do not recommend filling the spa in the winter months after a longer shut-down when the shell has frozen. The high difference between the temperature of the inflowing temperature and the temperature of the spa surface can cause damage to the shell surface which is not covered by the warranty.

Heater flanges

- Before filling, open the filter cover to avoid air entering the (filter pump) filtration circuit.

- Check that the drain outlet on the spa side is closed and fitted with a cap (see chapter Draining the spa).

Note:
It is recommended to open (counterclockwise) and close (clockwise) the drain outlet only by hand! Using the tool may cause damage.

We recommend always using the safety cap, even after the outlet has been closed.

- Avoid overflowing the spa when it is being filled, as the electric parts of the spa may be flooded and damaged, which is not covered by the warranty.
- Check the tightness of the pump and heater flanges after filling and heating the water to the required temperature, re-tighten if necessary.
- After filling, chemically treat the water and cover the spa with a cover to quickly restore the water temperature.

We recommend filling the spa through the filter or with the bleed valve opened, this is the best way to expel the air from the filter circuit during the filling process.

11.2 Filter cleaning and replacement

The filter is one of the most important parts of the spa in terms of water maintenance. The following points describe some of the basic rules for efficient filter functioning.

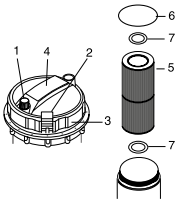
In the following cases, we recommend using a new filter cartridge:

- The cartridge has been used for a longer period of time (lifetime of the cartridge in normal family use is about 1 year).
- The cartridge is grey, brown or green.
- The cartridge is beige even after cleaning.
- The spa has been moved to a new owner.
- The filter element itself (part made of non-woven fabric) collapses and loses its fibrous gloss (that means, the fibres disintegrate and can no longer effectively filter).
- The upper or lower plastic parts of the cartridge are split or cracked.
- The filter element itself is crumbled or disintegrated.

At least once a week (or more often, if necessary), rinse the filter cartridge using the strongest possible water jet (e.g. shower head switched to central water jet with a passage diameter of about 5 mm).

- A dirty filter contaminates the spa water and prevents it from being cleaned.
- Do not use soap-based cleaners to clean the filter or the spa.

- Make sure the cartridge is properly seated in the filter case after each cleaning or replacement. This ensures 100% filtration of the water passing through the filter.
- Keep the particular chemical indicators in the correct ranges. The filter itself is not able to keep the water completely clean and safe (it is not able to destroy bacteria and algae).
- Use a special filter cleaning solution every two months. The cartridge must also be cleaned every time it is emptied and re-filled.
- It is possible to have two filters and use them alternately - swapping them every two weeks. So you can use one while cleaning the other filter.
- Always take a shower before using the spa. The following have a negative impact on water maintenance from the filtration point of view haver: hair sprays, foams, make-up, deodorants, antiperspirants, sun lotions, face creams of any kind, sweat, soap trapped in the swimsuit. We recommend using a classic soap for showering - any soaps, gels containing "emollients" can cause the water in your spa to mist up and foam.



Filter diagram
Any handling with the filter must always be carried out in Standby mode or when the power supply is turned off!

Filter disassembly
Remove air from the filter housing by turning the air purge valve (1) counter-clockwise. Pull the grey lever (2) and rotate the filter ring (3) counter-clockwise, then remove the ring. Grasp the handle on the filter cover (4) and remove the cover. Remove the filter cartridge (5) and clean or replace it. Check the O-ring seal on the filter cover (6) for damage.

Refitting the filter
Make sure you fit the position rings (7) and perform the above steps in reverse order. Tighten the filter ring (3) by hand clockwise. Press the Cancel button to exit the Standby mode - as soon as the water from the air purge valve (1) begins to flow out, tighten it by hand clockwise.

Note:
We recommend using two filter cartridges at the same time. When cleaning the filter, use a dry cartridge, then store the rinsed cartridge in a dry and ventilated place. Use the dry cartridge again when cleaning the filter next time. Drying the cartridge will destroy bacteria which have not been completely washed away during rinsing.

11.3 Cleaning the spa

No one wants to be in water that is not crystal clear. You could hardly enjoy a bath full of dead insects, twigs, leaves or other garbage. The cleaning of your spa is very simple.

Removing dirt:

- Catch and remove any dirt floating in the water with a fine mesh.
- Check the skimmer sieve every 14 days for impurities from the surface.
- Vacuum dirt and unwanted material (stones, etc.) from the bottom of the spa

Cleaning the acrylic surface of the spa:

- DO NOT USE ANY ABRASIVE AGENTS OR PREPARATIONS IF YOU ARE NOT SURE OF THEIR CHEMICAL REACTION WITH THE SPA SURFACE. The resulting surface defects on the spa are not covered by the warranty.
- If detergents are used, rinse the surface thoroughly. Detergent residues can cause complications in the maintenance of spa water.

11.4 Maintenance of the pillows

The pillows do not require any special maintenance. If necessary, they can be washed with a detergent solution and rinsed thoroughly with clean water. Keep the water in balance. Misbalanced values of disinfection, water hardness, pH, alkalinity can lead to damage of the pillows which is not covered by the warranty.

11.5 Maintenance of the ozonisation system

As already mentioned in the introduction, the ozonator contributes significantly to reduced water maintenance and the need for chemical products. For its proper function, it is necessary to ensure a good transit of ozone into the spa system. For this reason, we recommend to replace the ozonator hose, including the check valve, once a year. The kit, including the detailed instructions for this replacement, can be ordered from your spa supplier.

In order to ensure the best possible operation of the ozonator, it is recommended to replace the ozonator every 3 years. This replacement can be performed either by a service technician or by ordering a complete kit including the detailed replacement instructions.

11.6 Maintenance of the cabinet

The VIBES spa cabinet is made of insulating polyurethane sandwich with a polypropylene-based surface combined with elements with a car paint finish. Thanks to the materials used, it does not require any specific maintenance, moreover it is dimensionally stable and resistant to the external conditions and possible parasites.

For cleaning, we recommend using a cloth and water with a detergent, which must be rinsed after cleaning. The frequency of cleaning depends on the location of the spa.

11.7. Maintenance of the stainless steel parts

Stainless steel is commonly known as a corrosion resistant alloy. However, this property may change or disappear completely. Stainless steel can corrode due to the contact of the steel with an unsuitable adverse environment (liquid or gaseous). Corrosion can completely damage the material. In principle, corrosion is a phenomenon that is caused by partial or total damage to a passive layer that naturally or artificially covers the steel surface. Damage to the protective passive layer causes loss of the stainless steel quality.

Stainless steel elements can be found at the spa especially in the interior of the spa (e.g. stainless steel caps of the jets).

The following conditions must be observed to ensure the corresponding appearance of the stainless steel components and to maintain the warranty:

1. Protect the stainless steel components from salts, dust and dirt when the spa is not filled with water.

2. Make sure the spa water is always clean.

3. The concentration of free chlorine in water must not exceed the maximum value of max 5 ppm. The pH of the water must be between 7.2 and 7.6.

4. Avoid contact of the stainless steel with other metals, especially with iron - otherwise the electric cell will form and galvanic corrosion may occur.

5. Corrosion of stainless steel elements can occur if the content of chlorine, chlorides and chloride ions in water is increased.

6. If there are signs of calcium deposits or oxidation on the stainless steel elements, they should be cleaned with an appropriate stainless steel cleaner, washed with clean lukewarm water, dried and preserved with a preservative and polishing agent for stainless steel materials (the products are available either directly from USSPA or from your spa supplier or from over-the-counter products such as Silichrom).

7. When dosing chemicals into the spa, the dosed chemicals must not come into direct contact with the stainless steel elements. It is necessary to avoid splashing the stainless steel elements with any chemicals.

8. The stainless steel components must not be stored near chlorine and other chemicals.

11.8 Care of the cover

The cover is specially designed for your spa model. The hollow aluminium profiles give the structure extra strength. The inner core of dense polystyrene foam provides excellent insulation against heat loss. The foam core is covered with a durable plastic coating. The outer side is made of highly durable fabric with a Teflon finish.

- Cover the spa with a cover whenever the spa is not in use. This will reduce not only the energy consumption of the spa, but also the maintenance of the spa and the amount of chemical products used (the cover is opaque, prevents light from entering the water and thus reduces green algae growth; the cover lies on the spa flange and thus prevents the ingress of dust, pollen, insects, leaves).
- The cover protects your spa against long-term UV exposure and high temperatures, which can result in the degradation of the materials used to make the spa. This type of damage is not covered by the warranty.
- The cover prevents moisture leakage - this feature has major advantages in indoor installations. At the same time, the need to add water is reduced.
- The cover only minimizes the ingress of water into the spa from the outside (rain); the cover must ensure ventilation of the air above the water level in the spa at the time of filtration.
- Handle the cover with care to avoid damage. Avoid pulling the cover over rough surfaces. Always keep the cover in a safe place to prevent damage.
- We recommend the use of a special lift bar from the USSPA offer for easier handling of the cover.
- The cover is not designed for walking or sitting on it.
- In case of outdoor installations, we recommend removing snow from the cover in winter. Snow can create a load for which the cover is not designed.
- The combination of intense sunlight and a cover in a dark finish can cause the protective film to curl on the inner insulation boards. This can result in a visible curling of the top part of the cover. This aesthetic change does not affect the function of the cover and is not covered by the warranty.
- The outer cover of the cover is designed as a replaceable cover and for this reason it is not possible to achieve complete shut-down in the whole area. The eventual curling of the coating is not subject of a complaint.

- Remove dirt from it with soapy water or a special product - Polstrin, or it is also possible to use a high-pressure water cleaner WAP. For such cleaning, however, it is necessary to remove the fabric cover from the cover to avoid damaging the insulation boards of the cover. The fabric can withstand up to 7 washes without destroying the Teflon finish, but the following instructions must be followed:

11.9 Winterizing the spa

The spas are generally designed for year-around use. If you decide not to use your spa for a certain period of time (in winter, holidays, etc.), we recommend leaving the spa filled with water and the power supply turned on. You can decrease the set temperature (the lowest adjustable temperature is 15°C).

Your spa is equipped with the Smart Winter mode - this system prevents your spa from freezing. It compares the set water temperature in the spa with the air temperature in the cabinet. If necessary, it then switches the individual pumps repeatedly to mix the water in the massage systems - information about the active mode is shown on the spa display.

If you decide to drain the spa for winter, contact a service technician who can professionally winterize your spa so that frost and water residues cannot damage the individual components of the spa.
To restart the spa after winter, we recommend contacting a service technician again.
It is necessary to protect the empty spa against extreme temperature fluctuations using the cover. Such defects are not covered by the warranty.

12 Keeping the spa water clean

The chemical maintenance of the spa water is an integral part of the spa maintenance. The maintenance of the water is not demanding in terms of time or technology, but it contributes significantly to enhancing the comfort in the bath and extends the lifetime of the spa.

Even if you fill the spa with clean, drinking water, it is necessary to regularly check the spa water, keep it in balance (pH, alkalinity) and disinfect it too. Use only USSPA-recommended chemicals for water maintenance.

Defects caused by the use of unsuitable chemical agents are not covered by the warranty.

Warning:
Never leave chemicals inside your spa!

12.1 pH

The most important component of a balanced water level is pH value.
This value indicates how acidic or alkaline the spa water is.
The pH value should be monitored as it has a major effect on the effectiveness of disinfectants and on the health of people using the spa.

The ideal pH value range for the massage bath is 7.2 to 7.6.

high pH value
low disinfection efficiency
turbid water
low filter cartridge life
surface film forming
irritation to skin and eyes

low pH value
low disinfection efficiency
irritation to skin and eyes
deviation of total alkalinity
corrosion of metal / metal parts of the spa

- A value lower than 7.2 means your water is too acidic. Use a product to reduce the acidity of the water.
- A value above 7.6 means that the water is too alkaline. Use a product to increase the acidity of the water.

Before adding any pH adjusting chemical, the total alkalinity should be assessed first.

12.2 Overall alkalinity

The total alkalinity is a measure of the ability of water to prevent unexpected pH value fluctuations.
A correct alkalinity value helps to maintain the pH value within an appropriate range. The total alkalinity should be checked before making any pH value adjustments.

The ideal value of total alkalinity is between 80 and 120 ppm.

Consequences caused by too high or too low levels of total alkalinity:

high total alkalinity
difficult pH value change
surface film forming
irritation to skin and eyes
low disinfection efficiency
turbid water

low total alkalinity
rapid pH value changes or "pH value jumps"
corrosion of metal / metal parts of the spa
irritation to skin and eyes

12.3 Water hardness

Water hardness is determined by the concentration of calcium and magnesium in the water of your spa, but water hardness is often referred to as only calcium hardness. The amount of calcium in the water varies according to the water source.

Well water, for example, is more likely to have a higher mineral content - and it may be harder - than a fresh water source in a series where the water has already undergone a basic treatment.

The recommended hardness is between 8 and 20°N.

Note:
The goal is to have water within a certain range of hardness - if the water is too soft, the water will slowly dissolve all metal parts in your spa. If the water is too hard, the high hardness will become evident by forming a surface film and the water will become cloudy.

12.4 Disinfection

Disinfectants are intensive chemicals that are capable of destroying bacteria, algae and other undesirable organisms and substances in the water. For their correct efficiency, it is necessary to be always contained in the water.

The water must always contain the necessary minimum amount (called residual amount) of disinfectants.

The disinfectant to be added must then be sufficient to destroy the existing infectious substances in the water and to create a sufficient residue to neutralize the impurities and germs of undesirable micro-organisms that may enter the water during the next treatment.

12.5 Water maintenance products

There are many products available for your spa. Some are necessary to adjust the stability of the water in the spa, to protect the metal components of the spa, to prevent calcium build-up, to prevent the foaming of water, etc. And others scent the water and make your bathing more pleasant.

When selecting the suitable chemicals and additives for your spa, do not hesitate to seek advice from your spa supplier.
When using chemical agents, observe the safety instructions and dosing instructions given for each product.
For more information on water maintenance and chemical use, contact your spa supplier or chemical agents suppliers.

13 Technical advice and error codes

13.1 Selected error codes and their solutions

The active error codes, including a short description, are displayed on the main screen of the display.

Note:
A complete description of all error codes of the Gecko IN.YE 5 control unit is available at http://www.geckodocs.com in the Troubleshooting document (Y series; produkt: IN.YE).

Problem	Possible cause	Solution
FLO appears on the display.	Air bubbles in the pipeline.	Bleed the pumpy 1 circuit (see the commissioning procedure).
	Water flows only a little bit, irregular flow.	Bleed the pumpy 1 circuit (see the commissioning procedure).
	Blocked flow.	Check that the shut-off valves and jets are open. Check the suction for debris.
	Clogged filter.	Clean or replace the filter.
	Low water level (low pressure).	Increase the water level to the recommended level.
	The system detects low water pressure in the heater even thou-gh the pump 1 is running.	If the problem persists, the message remains, call an USSPA authorized partner.
NO FLO appears on the display.	The system detects low water pressure in the heater for 2 hours, even though the pump 1 is running. The whole system is blocked for next 2 hours.	Turn the spa main circuit breaker off and on. Perform the points described for the FLO error code above. If the problem persists, call an USSPA authorized partner.
FLC appears on the display.	The system detects water flow in the heater even though the pump 1 is turned off.	Turn the spa main circuit breaker off and on. If the problem persists, call an USSPA authorized partner.
OH appears on the display.	The water temperature reached 42°C, the hydro-massage pumps nor the air blower are blocked.	**Do not enter the spa!** Risk of high temperature of the spa water (risk of injury)! Remove the thermal cover and allow the spa water to cool to 40°C, then turn the main spa cir-cuit breaker off and on again. If the problem persists, call an USSPA authorized partner.

Problem	Possible cause	Solution
HL appears on the display.	The system has been disconnected because of very high temperatures of the spa water (48°C or higher).	**Do not enter the spa!** Risk of high temperature of the spa water (risk of injury)! Remove the cover and allow the spa water to cool to 40°C, then turn the main spa circuit breaker off and on again. If the problem persists, call an USSPA authorized partner.
AOH appears on the display.	Increased temperature in technology.	Decrease the set water temperature and ventilate the spa technology area. Your spa is designed and insulated to minimize energy consumption. In case of high ambient air temperature, the spa technology may overheat. Check the length of the filtration and, if necessary, temporarily decrease the number of filtration hours. If the problem persists, call an USSPA authorized partner.
Prr appears on the display.	Faulty water temperature sensor.	Call an USSPA authorized partner.
Hr appears on the display.	Internal HW error on the motherboard.	Call an USSPA authorized partner.

13.2 Other problems and their solution

Problem	Possible cause	Solution
The entire device is not working.	The residual current device is turned off (GFCI).	Turn on the residual current device (GFCI).
	The main circuit breaker is turned off.	Turn on the main circuit breaker.
	The spa components are not connected (pump 1, pump 2, etc.).	Connect the components (pump 1, pump 2, etc.). Call an USSPA authorized partner.
	The power cord is not connected.	Connect the power cord. Call an USSPA authorized partner.
	The Standby mode is activated on the display.	Press the Cancel button to exit Standby mode.
	An error code is active.	Perform the points described for the error code.
It is not possible to turn on the massage pumps and the air blower while the display is working.	An error code is active.	Perform the points described for the error code.
	An error code is not active.	Call an USSPA authorized partner.
It is not possible to turn off the running massage pumps and the air blower.	The Smart Winter mode is active – message on the display.	The Smart Winter mode protects the spa against cold by turning on the pumps several times a day to prevent the water from freezing in the pipes. Wait for the automatic termination. See chapter 9.2.5 Smart Winter mode.

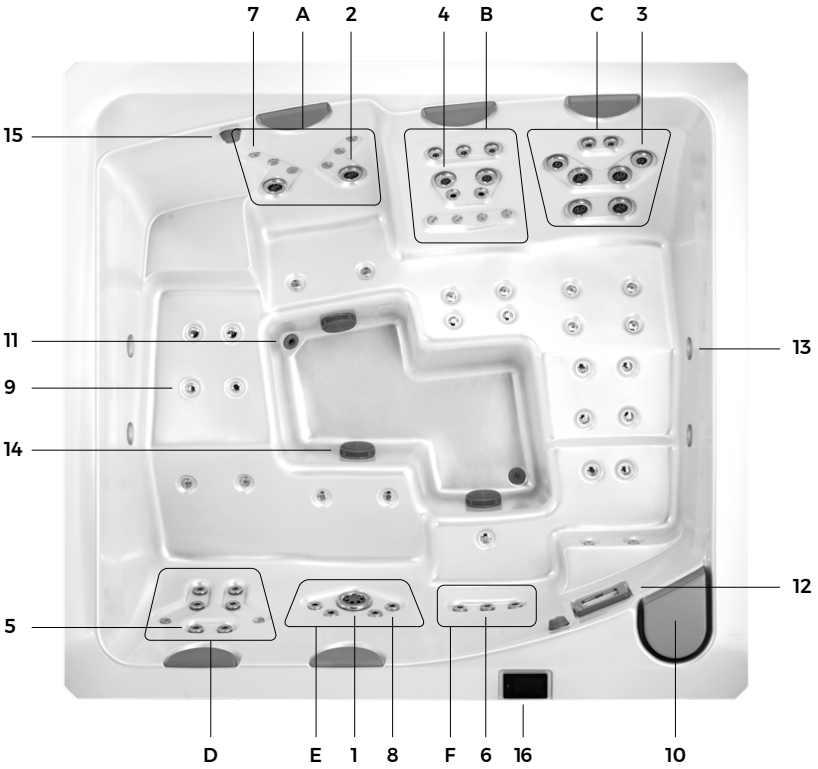
Problem	Possible cause	Solution
The water is not running, the water flows only a little bit, irregular flow.	Air bubbles in the pipes.	Bleed the pumpy 1 circuit (see the commissioning procedure).
	Blocked flow.	Check that the shut-off valves and jets are open. Check the suction for debris.
	An error code is active.	Perform the points described for the error code.
Overheated water in the spa.	Due to the long-term high ambient temperature (e.g. in summer, because of the location of the spa in a small area, in the pool room, etc.).	Decrease the set water temperature, fill in cold water, ventilate the spa technology area. Your spa is designed and insulated to minimize energy consumption. In case of high ambient air temperature, the spa water may overheat. Check the length of the filtration and, if necessary, temporarily decrease the number of filtration hours. If the problem persists, call an USSPA authorized partner.
	An error code is active.	Perform the points described for the error code.
Low temperature.	Incorrectly set water temperature.	Adjust the required water temperature setting.
	Weak water flow.	Clean or replace the filter.
	The spa is not covered by the cover.	Cover the spa with the cover.
	An error code is active.	Perform the points described for the error code.
The jets or jet systems are not working.	The shut-off valves are closed.	Open the valves.
	Closed jets.	Adjust the jets correctly. If the problem persists, call an USSPA authorized partner.
	An error code is active.	Perform the points described for the error code.
The lighting is off.	No light or disconnected lighting cable.	Connect the power cord or connect the disconnected lighting cable, or call an USSPA authorized partner.
	Faulty main LED unit.	Call an USSPA authorized partner.
The ozonator is not working (the LED indicator in the ozonator is off).	The filtration cycle is not running.	The ozonator is only started when filtration is active.
	The massage pumps or the air blower are running.	The ozonator is automatically turned off during the massage.
	The power cord is not connected.	Call an USSPA authorized partner.
	Defective ozonator.	Call an USSPA authorized partner.

Problem	Possible cause	Solution
Water leak from the spa.	Over-crowded spa.	Adjust the spa water level.
	Too many people in the spa.	Adjust the spa water level.
	The bleed valve is open.	Tighten the bleed valve on the filter.
	Loose pump/heater flanges.	Tighten them - only by hand. Replace sealing if necessary. If the problem persists, call an USSPA authorized partner.
	Defective technology.	Call an USSPA authorized partner.
	Dripping water under the control panel	Call an USSPA authorized partner.
Accidental loss of current protection.	Thunderstorm, lightning.	Reset the residual current device (GFCI). If the problem persists, call an USSPA authorized partner.
	Voltage fluctuations.	Reset the residual current device (GFCI). If the problem persists, call an USSPA authorized partner.
	Too high humidity in the spa technology.	Reset the residual current device (GFCI). If the problem persists, call an USSPA authorized partner.
	Radio interference.	Reset the residual current device (GFCI). If the problem persists, call an USSPA authorized partner.
	Note: Make sure the spa is properly grounded.	
Repeated loss of current protection.	Defective component.	Call an USSPA authorized partner.

14 Equipment of the VIBES spa

Momento model

Note:
The location and quantity of specific jets and equipment features are specific to each model; your spa may not contain all of the features described in this manual.



1. Power Storm Massage jet
2. Poly Storm Twin Roto jet
3. Mini Storm Directional jet
4. Mini Storm Twin Roto jet
5. Cluster Storm Directional jet
6. Cluster Storm Twin Roto jet
7. Ozone jet- small
8. Ozone jet - large
9. Air Jet
10. Filter
11. Mazzei jet - displacement of ozonization
12. Skimmer - suction from the surface
13. Light
14. Suction, large - from hydro-massage pumps
15. TurboBoost control
16. Control panel

A CalmFLOW
B IntenseFLOW
C BlissFLOW
D PureFLOW
E ZenFLOW
F VitalFLOW

All jets, with the exception of the ozone jets (7,8), air jets (9), can be controlled separately:

- anti-clockwise rotation - jet opening
- clockwise rotation - jet closing

Do not force the closable jets further than the normal operation allows to avoid damaging them.
Never close several jets at a time to avoid damaging the system.
It is recommended to allow the under-pad jet to leak lightly to prevent water from deteriorating during long periods of non-use.

The TurboBoost controller is used to continuosly regulate the quantity of pressurized air in massage seats, mixing the air into water flow of hydrotherapy jets. It adjusts the intensity of massage.

Spa models with two controllers - each controller regulate two massage seats.

Spa models with one controller - a controller regulates all massage seats.

Content

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