

HANSCRAFT[®]
european spa producer

USER MANUAL

IN.K300



YOUR COMFORT IS OUR COMMAND

Our design process is heavily influenced by Martin Prochazka, MSc., the physiotherapist of Czech leading sportsmen, who oversees that all our hot tubs always offer both a comfortable and highly effective massage. They will further charm you with their modern, appealing appearance, designed by Ondrej Kamenicky, M.Arch.

WE ALWAYS CHOOSE THE GREEN WAY

Instead of using shell lamination which creates harmful styrenes as a by-product, we use high quality GreenShield materials. They are completely harmless to both health and nature. On top of that we recycle all of the leftover material and introduce it back to the manufacturing process. That makes us a close to zero-waste company (97%).



PRECISE EXECUTION OF EVERY DETAIL

We work with the latest technology and machinery, currently also used in automotive, aircraft and arms industry. That enables us to be precise to a hundredth of a millimeter. Precision and quality are areas which we never compromise in.

STRICT QUALITY TESTING BEFORE SHIPMENT

Not one hot tub leaves our manufacture hall without a series of strict and thorough testing procedures. We test all our products in real life circumstances which allows us to eliminate 99% of possible defects and malfunctions. We are also inspired by the hardline quality control of TPS (Toyota Production System).

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Hot tub performance parameters

For your own safety and the safety of your product, please observe the following instructions. Read the following information carefully and follow the user manual exactly when using the hot tub to avoid damaging the product or the risk of injury. This appliance is intended for use by children 8 years of age or older with reduced physical, sensory or mental capabilities, or lack of experience and knowledge, provided they are under supervision or have been instructed on the use of the product and understand the risks. Children must not play with the product. Cleaning and maintenance must not be performed by children without supervision.

1 Hot tub performance parameters

1.1 Performance parameters of CELTIC SPAS hot tubs

Performance parameters

rated voltage:	three-phase 230/400 V 50 Hz*
maximum working current:	3× 16 A
current surge:	up to 3× 25 A
voltage resistance:	1 250 V/min. without breakdown
insulation resistance:	≥ 1 M Ω
water resistance (cover):	IPX5
protection against electric shock:	first stage

The product does not use the 400 V phase to phase voltage. It is possible to adjust it to 1× 230 V, however, this is not recommended due to limitations of the functions. (For more information on this connection, please refer to the Supplements, p. 22)

Load capacity

heating:	1× 230 V/3 kW/13.6 A
ozone:	1× 230 V/50 – 60 Hz/80 mA
blower:	1× 230 V/0.66 kW/2.9 A
pump 1/2:	0.42/2.2 kW
total input power (depending on type of hot tub):	6 kW/h
protection class:	I.
lighting:	LED 12 V alternating/10 W
maximum output power:	20 W
moisture resistant speakers:	according to equipment

Preparation and electrical connection options – AC three-phase current 3× 230/400 V/16 A/20 A

Ensure that the hot tub is always connected to a circuit protected by a residual-current protector with a residual current of 0.03 A. It is necessary to use a Type C or Type D

Performance parameters/Installation preparation

circuit breaker with a rated current of 16 A (motor circuit breaker) downstream of the Residual Current protective Device.

Recommended Type C or D circuit breaker (motor circuit breaker)

Hot tubs with two massage motors: **3× 16 A/C or D**

Hot tubs with three massage motors: **3× 20 A/C or D**

!!!THE HOT TUB MUST ONLY BE CONNECTED BY A PERSON WITH PROFESSIONAL ELECTRICAL QUALIFICATION IN ACCORDANCE WITH DECREE NO. 50/1978 COLL.!!!

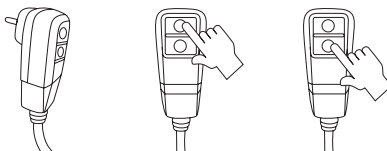
1.2 Performance parameters of PLUG & PLAY hot tubs

Performance parameters

rated voltage:	single phase 1× 230 V 60 Hz*
maximum working current:	1× 16 A
voltage resistance:	1 250 V/min. without breakdown
insulation resistance:	≥ 1 M Ω
water resistance (cover):	IPX5
protection against electric shock:	first stage

Load capacity

heating:	1× 230 V/2 kW/13.6 A
ozone:	230 V/50 Hz/80 mA
pump 1/2:	2.2 kW
total input power (depending on type of hot tub):	2.7 kW/h
protection class:	I.
lighting:	LED 12 V AC/10 W
moisture resistant speakers:	according to equipment



2 Hot tub installation preparation

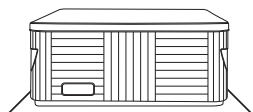
Inspect the hot tub prior to installation! If any part is damaged or missing, contact the seller immediately! Make sure that all components are in accordance with your order. Check the hot tub before each use. In the event of damage, do not use the hot tub! In case your spa is equipped with screwless cabinet, it is prohibited to install additional accessories or load the cabinet in a way not specified by the manufacturer. Damage caused by failure to follow this precaution is not covered by the warranty!

Hot tub installation preparation

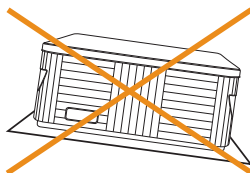
2.1 Preparation of the place for installation and connection to electricity

The hot tub must be installed on a flat, sufficiently strong pad with regard to the load-bearing capacity of the hot tub. If the hot tub is installed outdoors, we recommend making a monolithic concrete pad with a minimum thickness of 10 cm. It is always necessary to choose the load-bearing capacity of the pad with regard to the dimensions and weight of the hot tub. Consult your building supervisor. The weight is specified in the technical description of the hot tub.

YES



NO



CELTIC SPAS hot tubs are made for electrical connection of 3× 230/400 V~ alternating current; it is therefore necessary to use a 3× 16 A/C or D, alternatively 3× 20 A/C or D circuit breaker and a residual-current device corresponding to this connection. It is also necessary to have the cable in accordance with the applicable regulations. **The cable must have 4 more usable meters in the place of the hot tub so that it can be easily routed and connected to the control unit.** Do not route the cable under the whirlpool! **PLUG & PLAY** hot tubs are made for 230 V electrical connection with an installed circuit breaker and conductor.

2.2 Preparation of indoor hot tub installation

If the hot tub is installed indoors, safety precautions must be observed. The basic requirements for the safe operation of the hot tub are anti-slip floors and drainage of the installation site in the event of a water overflow. It is also necessary to realize that humidity will rise around the hot tub, and this may damage surrounding electrical appliances. We therefore recommend adapting the installation site to these conditions. **The whirlpool should always be accessible from all sides for future service.** If it is not sufficiently accessible during the warranty period, the owner is obliged to provide this access. (Sufficient access is generally considered to be at least 60 cm from all sides of the hot tub.)

2.3 Preparation of outdoor hot tub installation

If the hot tub is installed outdoors, safety precautions must be observed. The basic requirements for the safe operation of the hot tub are anti-slip floors and drainage of the installation site in the event of a water overflow from the hot tub. We therefore recommend adapting the installation site to these conditions.

3 Hot tub installation

Attention: the hot tub must be connected pursuant to standards valid in the Czech Republic according to ČSN 33 2000 -7-701

3.1 General information

For the installation, electrical connection and the first commissioning of the hot tub, we recommend using the services of professionally trained technicians. If you decide to install the hot tub yourself, follow the recommendations below.

- a) Carefully remove all packing material in which the hot tub was shipped, and place the hot tub on the site prepared for installation.
- b) Remove the front panel located on the side of the hot tub control panel. Remove the top cover of the electric switchboard, under which the circuit breaker and residual-current device (if the hot tub is equipped with them) and the ground terminal are located. Only a professionally qualified person may connect it to the power cable.
- c) Because your hot tub has been thoroughly tested during the production process, it is possible that a certain percentage of dirt remains in the technological parts of the hot tub and on its surface; we therefore recommend that you clean the surface of the whirlpool first. Use lukewarm water to clean it. Always clean the surface with suitable soft cloths. Never use any coarse abrasives or textiles that could damage the surface of the hot tub. If you decide to use a cleaning product, this product must not damage the surfaces of the hot tub.
- d) Before filling the hot tub, make sure that all the screws on the equipment are tightened to prevent water leakage.

3.2 Filling the hot tub with water

Fill the hot tub with a sufficient amount of water. The water level in the hot tub must never fall below the level of the skimmer. If you find that there is a water leak when filling the hot tub with water, stop filling the hot tub until the fault has been corrected. Hot tubs do not have water softening technology and hard water damages them. Damage caused by misuse is not covered by the warranty.

- a) Fill the whirlpool through the skimmer to prevent the aeration of pumps.
- b) Do not fill the hot tub with water warmer than 104 °F.
- c) When the water reaches the desired level, insert the cartridge filter into the skimmer. When installing it, tilt the filter so that no air bubbles remain in it. After the air has been removed, install the filter.

3.3 Starting the hot tub power supply

If the hot tub is connected by a mobile power cable, the power supply cable must not be loaded by sharp objects or exposed to other influences. In this case, we recommend placing the supply cable in a protective cover (protector). Switch on the appropriate circuit breaker for the hot tub.

3.4 Programming the hot tub control unit with the control panel

Now you can start programming the hot tub. The programming process is described in the Control panel chapter. After programming the hot tub, cover it with a thermal cover and let its temperature stabilize. Check the water level in the hot tub regularly.

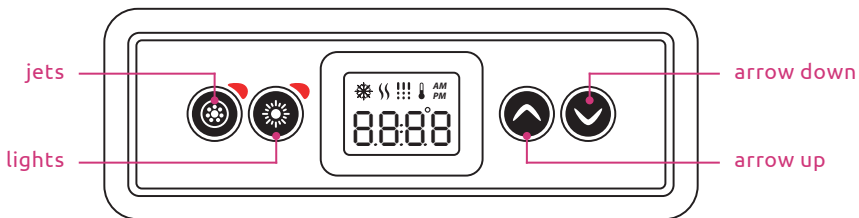
4 Aquatic audio system

AQUATIC/MY MUSIC audio system (if the hot tub is equipped with it)

To listen to music from an external device, you must first pair the device from which you will play the music (PHONE, TABLET, COMPUTER). On the external device, turn on bluetooth and search for the AQUATIC device. The connection is not coded, and only one connection can be active at a time. When everything is properly connected, you can start playing music. All functions such as switching, volume control, etc. are controlled from the connected device. In some cases, the connection to the audio system is conditioned by a password, in which case enter 0000 as the password.

5 Control panel (IN.K300)

5.1 Panel description



Control panel

JETS

The button is used for quick control of massage jets. In case it doesn't run filtration, the JETS button must be pressed twice. The power of water flow nozzles can be adjusted by turning the nozzles left or right. If so water does not flow through the nozzle, it does not have to be a fault, the nozzle can only be closed. Not all nozzles can be regulated in this way. It is also possible to regulate the force of the massage with the massage engine running, by turning the valve sucking air into the nozzles located at the upper edge of the whirlpool.

LIGHTS

This button allows switching the lights on.

ARROW UP

The arrow up allows selecting an option.

ARROW DOWN

The arrow down allows selecting an option.

5.2 Start or stop accessories

To start or stop an accessory, press the corresponding button. The indicators light up when the associated accessory is turned on. If the accessory has more than two states, press the button until it reaches the desired state. The indicators will flash when the two-speed pumps are switched on at low speed and will light up at high speed.

5.3 Water temperature

The temperature shown on the screen is the current water temperature. Use the *ARROW Up* and *ARROW Down* buttons to set the desired temperature. The set point icon will appear at the top of the screen. After 3 seconds without any change to the set temperature value, the keypad will resume the normal display.



5.4 Off Mode

Pressing *JETS* for 5 seconds will enable the Off mode. This mode allows you to stop all outputs including automatic functions such as filter cycle, heat request and smart winter mode for 30 minutes to perform quick spa maintenance. When Off mode is active, the display will toggle between the "OFF" message, the clock and the water temperature. The spa light will flash for a few seconds before the end of the

30 minutes to warn you that the system is about to resume its normal operation. Press *JETS* to restart the system before the expiration of the 30 minute delay. When the system resumes its normal operation, the display shows "On" for 3 seconds.



5.5 Program menu

The program menu is accessible by holding down the *Lights* key for 5 seconds. In the program menu the following parameters can be set: clock, filter or purge cycles, economy mode and temperature units. While in the program menu, use the *Arrow Up* or *Arrow Down* key to adjust the parameters and use the *Lights* key to jump to the next parameter. The changes will be saved after the confirmation of the last parameter only. If there is no action taken for 10 seconds, the system will exit the program menu without saving any changes.



LIGHT

(hold for 5 seconds)



5.6 Setting the clock

Enter the program menu by holding down the *Lights* key for 5 seconds. The display will show the current clock setting with the hour flashing. "PM" Depending on factory settings your system may be set to 24-hour time or 12-hour time. Setting the hour: Use the arrow keys to adjust the hour. Press the *Lights* key to jump to the next parameter, the minutes. Setting the minutes: Use the arrow keys to adjust the minutes. Press the *Lights* key to jump to the next parameter, the filter or purge start time (FS).

picture on the next page

Control panel



LIGHT

(hold for 5 seconds)



5.7 Programming the filter/purge cycles

Depending on system configuration your spa will perform either a filter or a purge cycle. The filter cycle menu consists of the following parameters: the start time (FS), the duration (Fd) and the frequency (FF). The purge cycle menu consists of the following parameters: the start time (FS) and the frequency (FF). A filter cycle consists of starting all the pumps and blower in high speed for 1 minute (purge step) then, the pump associated with the filter will run in low speed for the remaining duration of the filter cycle (clean step). A purge cycle is used when the spa is equipped with a 24 hour circulation pump which provides a continuous clean step. It consists of starting all the pumps and blower in high speed for 1 minute.

5.8 Setting filter or purge cycle start time

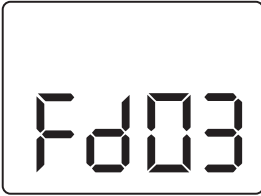
The display will show FSXX, "XX" representing the starting hour of the cycle. Use the arrow keys to adjust the hours. Use the *Lights* key to jump to the next parameter, filter duration (Fd).



5.9 Setting filter cycle duration (not available on purge systems)

The display will show Fdxx, "XX" representing the duration in hours of the filter cycle. Use the arrow keys to adjust the duration. Use the *Lights* key to jump to the next parameter, filter or purge frequency (FF).

(0 = no filtration, 24 = continuous filtration) It is not recommended to set this to "0".



5.10 Setting filter or purge cycle frequency

The display will show FFXX, "XX" representing the number of cycles per day. Use the arrow keys to adjust the frequency. Use the *Lights* key to jump to the next parameter, economy mode (EP).

- !!! The "Filter" indicator lights up when filter is on and flashes when suspended.
- ⋮⋮⋮ Setting economy mode.



5.11 Setting economy mode*

This mode allows you to lower the temperature set point of the spa by 20 °F (11 °C) during a certain period of the day. The display will show EPX, "X" representing the state of the programmed economy (0 = disabled, 1 = enabled). Use the arrow keys to enable or disable economy mode. Use the *Lights* key to jump to the next parameter, economy start time (ES). When the Economy mode is ON, the display will toggle between the "Eco" message, the time, and the water temperature.



** Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.*

Control panel

5.12 Setting economy start time*

The display will show ESXX, "XX" representing the hour at which the economy mode will become active. Use the arrow keys to adjust the hour. Use the *Lights* key to jump to the next parameter, economy duration (Ed).



** Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.*

5.13 Setting economy duration*

The display will show EdXX, "XX" representing the duration in hours of the economy mode. Use the arrow keys to adjust the hour. Use the *Lights* key to jump to the next parameter, temperature unit. (24 = continuous economy)



** Note that the parameters for the economy mode settings are associated to specific low level configuration of the system that are not present in all software revisions.*

5.14 Setting temperature unit

Water temperature can be displayed in either Fahrenheit (°F) or Celsius (°C). The display will show °F or °C. Use the arrow keys to change the setting. Use the *Lights* key to save all the parameters.



5.15 Smart Winter Mode

Our Smart Winter Mode protects your system from the cold by turning pumps on several times a day to prevent water from freezing in pipes.



The “SWM” indicator lights up when freezing is detected and flashes when the purge is active.



5.16 Cooldown

After heating the spa water to the desired Set Point, the heater is turned off, but its associated pump (Pump 1 low-speed or CP) remains on for a predetermined period of time to ensure adequate cooling of the heating element, prolonging its useful life.

5.17 Water temperature regulation

Every 15 to 90 minutes the pump will run 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.



Indicator flashes when taking water temperature reading.



6 Problem solutions

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

ERROR MESSAGES

HL	Warning! HL Error
FLO	No flow for more than 2 hours
FLO	No flow condition
HR	Danger! Relay stuck
OH	Warning! Spa temp. high
Prr	Warning! Temp. probes defective
AOH	Internal pack temp. high
FLC	Flow switch closed
SP in	Input voltage issue
FrEr	The input frequency is out of range
RH NC	Comm. error in. xm2 – in. therm
RH ID	in. xm2 – in. therm incompatible
SC ER	Learning mode error
F1	in. xm2 Fuse # 1 is blown
F2	in. xm2 Fuse # 2 is blown
F3	in. xm2 Fuse # 3 is blown
Hr	Danger! Thermal fuse error
UPL	The spa pack does not have valid software. Please insert valid in. stick to reprogram spa pack.
BL	The spa pack does not have valid software. Please insert valid in. stick to reprogram spa pack.

7 Hot tub care

7.1 General information

Do not expose the hot tub to sun without water inside or a cover on top. The direct sunlight can cause fading and deformation of the surface material. When you are not using the hot tub, cover it with the thermo cover, regardless of whether it is empty or full. Protect the hot tub from rain and snow. Place the hot tub under a gazebo or a roof if possible.

- a) Do not open the control unit. There are no user-fixable parts inside.
- b) Drain, clean and fill the hot tub with clean water on regular schedule.
- c) Clean the filter cartridge at least once a week.
- d) The hot tub user should have a proper shower before and after the use of the hot tub.

7.2 Removal and cleaning of the filter cartridge

The hot tub filter cartridge can get clogged by calcareous and mineral particles from a hard water, which can lead to a restricted water flow inside the filtration system.

We recommend to clean the filter cartridge at least once a week.

Remove the cartridge and the skimmer insertion. Using a garden hose, clean the cartridge so that no settled dirt remains in the corners of the filter. Once clean, put the insertion back to the skimmer. Put the cartridge inside the skimmer tank next and close it. Remember that the filter cartridge has to be replaced every 3–6 months. Replace it even sooner if it is damaged or clogged, it is not usable in such state.

Make-up, sunscreens and other types of body lotion decrease the quality of the water and lower the filter cartridge longevity.

7.3 Maintaining the quality of the water in the hot tub

WARNING: Always add the chemicals to the water, never the other way around. Add the chemicals to the water only when there are no people inside. Use the circulation pumps to mix the chemicals with the water. Store the chemicals according to the instruction on their label.

- a) Use a suitable water hardness regulator regularly (the **HANSCRAFT SPA Water hardness regulator** is recommended) and follow the instructions on the chemicals' label.

Hot tub care

- b) Depending on the frequency of use of the hot tub, test the water quality regularly by a suitable water quality tester.
- c) Adjust the water pH level accordingly by suitable water chemicals (the **HANSCRAFT SPA – pH PLUS** and **pH MINUS** is recommended).
- d) Adjust the Cl (chlorine) level with suitable water chemicals (**HANSCRAFT SPA – MULTI MINI 3 in 1 tablets** are recommended). Follow the instructions on the chemicals' label.
For the chlorine to have the desired effect, the pH level needs to be adjusted first.
- e) We recommend you to clean/replace the filter cartridge before adding the chemicals.

Chlorine shock – in case of extreme pollution, it is necessary to treat the water with a dose of fast dissolving chlorine and thus perform a chlorine shock. The pH level of the hot tub water has to be adjusted to 7.0–7.6 first and the chlorine level has to be checked. Once a week or after adding a large amount of fresh water to the hot tub, add a shock dose of chlorine 10–20 g/m³ (2 table spoons) into the water. Add the chlorine only when there are no people in the hot tub. After you add the chlorine, turn on the circulation pumps so that the chemicals mix well with the water. If you are using a granulated form of the chemical, dissolve it in a small amount of water first. Let the chlorine level drop to 3 mg/l before you start using the hot tub.

Oxygen shock – in case of extreme pollution, it is necessary to treat the water with a large dose of fast dissolving oxygen and thus perform an oxygen shock. The pH level of the hot tub water has to be adjusted to 7.0–7.6 first and the oxygen concentration in the water has to be checked. Once a week or after adding a large amount of fresh water to the hot tub, add a shock dose of oxygen (2 tablets) into the water. Add the oxygen only when there are no people in the hot tub. After you add the oxygen, turn on the circulation pumps so that the chemicals mix well with the water. Let the oxygen level drop to 15 mg/l before you start using the hot tub.

Store the chemicals according to the instructions on the label.

Ideal chemical levels

Free chlorine concentration (active oxygen concentration)	0.7–1.0 mg/l (10–15 mg/l)
pH level	7.0–7.6
Calcium	100–180 mg/l
Overall alkalinity	80–120 mg/l

7.4 Replacing the water

It is important to keep the hot tub water fresh and clean. We recommend you to replace the water at least every 3 months unless the water quality drops sooner. The hot tub water can be used for watering the garden for example, given that it has not been chemically treated at least one week prior.

- a) Disconnect the hot tub from the power supply (turn off the residual current device).
- b) Check the power supply cable and make sure it is not wet.
- c) Drain the water through a water drainage system, close it carefully and fill the hot tub with fresh water.
- d) Connect the hot tub back to the electrical circuit (turn on the residual current device).

7.5 Cleaning the outer shell of the hot tub

Use a mild, not abrasive cleaning detergent and a soft cloth.

7.6 Hot tub hygiene and disinfection

Taking care of hygiene is extremely important for elimination of any germs, algae and other harmful organisms polluting the water in the hot tub. Test the water using the testing kit first (to find out the pH and Cl level) and follow by using suitable water chemicals accordingly. Follow the instructions on the chemicals' label carefully.

7.7 Thermo cover

Using the thermo cover helps saving up energy expenditures by minimizing temperature loss and evaporation. The cover is an effective way of protecting your hot tub from impurities and fallen leaves.

WARNING: For safety and damage prevention reasons, do not sit, stand or lie on top of the cover. Do not place any objects on top of it. The thermo cover does not serve as a fence around the bathing area either. Do not let animals walk on top of the thermo cover. Prevent a large snow layer build up on top of the thermo cover.

7.8 Upkeep of the thermo cover and upkeep instructions

It is important to take a proper care of the thermo cover: clean it when necessary and treat it with a product intended especially for an eco-leather or fake leather. The guarantee does not cover damages caused by an inappropriate cleaning product.

Hot tub care/Winter and summer

- a) The right balance of water chemicals represents an important factor in prolonging the longevity of your hot tub thermo cover.
- b) Remove the hot tub's cover and place it on the ground surface down.
- c) Wash the cover with a large amount of water from a garden hose or a water bucket.
- d) Clean the thermo cover surface using a soft brush and a mild dish soap solution (1 tea spoon of dish soap per 8 litres of water).
Attention: Do not let the dish soap solution dry on the thermo cover before washing it off!
- e) Wash off the cleaning solution thoroughly.
- f) Return the cover back on the hot tub.
- g) Open the thermo cover regularly so that the chemical vapours can disperse. Flip the thermo cover inner side up at least twice a year for 3–4 hours.
- h) If the thermo cover does not get regularly cleaned twice a month, the surface material can become frail or age prematurely. The seams can separate. If you do not clean the thermo cover appropriately, the guarantee becomes invalid.

WARNING: Do not lift the thermo cover by the handles. A vacuum forms between the thermo cover and the hot tub therefore lifting by the handles could result in a damage. It is necessary to support the thermo cover from below by hand.

8 Winter and summer

Winterizing the hot tub, a process recommended by the producer.

It is required that all water gets drained from the hot tub during the process of winterizing it, as well as water from all the technical parts of the hot tub (circulation pumps, pipes, etc.) We recommend you to use our specialized service for this purpose because flawed winterizing of the hot tub can result in a loss of the guarantee. If you decide to use our professional services, it is necessary to order them sufficient amount of time in advance. In case of winterizing the hot tub by yourself, it is crucial to do it when the air temperature is still above zero. If the winterizing is done in temperatures below zero, it can be very difficult because water in the motors could have frozen already and damaged some parts of the hot tub.

8.1 Winter time – using the hot tub, all year operation (SLP)

If you decide to keep using the hot tub during the winter time, it is necessary to keep checking the hot tub for cases of for example: circuit break failure, motor not working, heating not working, filter cartridge getting clogged.

If the instructions above are not complied with and it results in a damage of the hot tub, the warranty cannot be claimed.

8.2 Summer time

Do not expose the hot tub to direct sunlight; do not use inappropriate cleaning detergents for upkeep. Prevent the hot tub surface coming in direct contact with chemicals as well as surface scratches cause by sharp objects. Ensure the safety of children in the hot tub by a continuous adult supervision. Only eligible persons over 18 years of age, educated about the whole process, can be operating the hot tub. The same goes for handling the water chemicals, which have to be stored out of children's reach.

9 Final information

9.1 Guarantee conditions

Guarantee conditions abide by terms and conditions of your distributor.

9.2 Safe disposal of the product after the service life

Hire a professional service to dispose of the hot tub after it reaches the end of its longevity. According to the WEEE directive (Electronics and electrical appliances waste) this device cannot be disposed of like a regular waste.



9.3 Warranty claims and repair services

Potential warranty claims abide by the consumer protection laws and the warranty claims policy of your distributor.

10 Service table

A TABLE FOR YOUR NOTES, PLEASE FILL OUT THE FOLLOWING INFORMATION. You will need the filled out information in case of a repair requested through the customer service line.

Purchase date	
Delivery date	
Model name	
Serial number	
Seller information (name, phone number)	

11 Supplements

Setting to 1× 230 V

When setting to 1× 230 V, it is necessary to observe the cross-section of the supply wire; namely: CYKY – 3× 10. A circuit breaker and residual current protective device 50 A, according to the applicable standards of the country where the product is installed.

Illuminated cabinet

If you have a product with an illuminated cabinet (not illuminated corners) or extended casing and use a Bypass, it is always necessary to connect the external device by creating an opening in the cabinet, as it cannot be routed through the bottom.

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HANSCRAFT, s.r.o.

K Vodojemu 140

252 19 Chrástřany u Prahy

CZECH REPUBLIC

www.HANSCRAFT.eu



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