

# USER MANUAL

HOT TUB WAVE (all modules)

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For your own safety and the safety of your equipment, please observe the following instructions. Read the following information carefully and when using Hot Tub Wave, follow the user manual exactly to avoid damage to the equipment or risk of injury. This appliance may be used by children, persons with reduced physical, sensory or mental abilities or lack of experienced knowledge, only if they are supervised! Children must not be allowed to play with the appliance. Cleaning maintenance by the user must not be carried out by unsupervised children.

## 1 Parameters

### For all modules – 1× 16 C

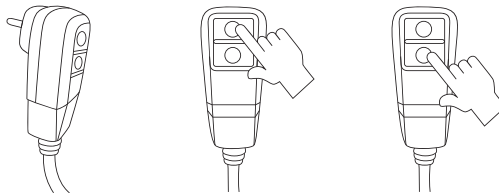
Hot Tub Wave with one massage motor:	<b>1× 16 C</b>
Hot Tub Wave with one filter motor:	<b>1× 16 C</b>
Hot Tub Wave with one blower:	<b>1× 16 C</b>

### Performance parameters

rated voltage:	<b>single phase 230 V 50 Hz*</b>
maximum working current:	<b>1× 16 A</b>
current surge:	<b>up to 20 A</b>
voltage resistance:	<b>1 250 V/min. without breakdown</b>
insulation resistance:	<b>≥ 1 M Ω</b>
water resistance (cover):	<b>IPX5</b>
protection against electric shock:	<b>first stage</b>

### Load capacity

pump 1/2:	<b>2.2 kW/9.6 A</b>
total input power (depending on type of hot tub):	<b>2.7 kW/h (11.7 A)</b>
protection class:	<b>I.</b>
lighting:	<b>LED 12 V AC/10 W</b>



# Hot Tub Wave installation preparation

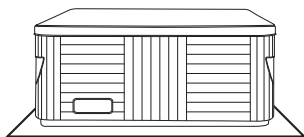
## 2 Hot Tub Wave installation preparation

**Inspect the Hot Tub Wave 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 Wave before each use. In the event of damage, do not use the Hot Tub Wave! 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!**

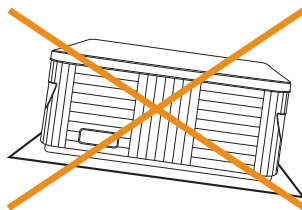
### 2.1 Preparation for installation and electrical connection of the Hot Tub Wave

The Hot Tub Wave must be installed on a level, sufficiently solid base slab, taking into account the load-bearing capacity of the building. When installing the Hot Tub Wave, we recommend it in the exterior, a concrete monolithic base slab with a minimum thickness of (thickness) of 10 cm. The load-bearing capacity of the foundation slab must always be selected with regard to dimensions and weight of the Hot Tub Wave. Consult your building supervisor. The weight is given in the technical description of the Hot Tub Wave. Hot Tub Wave with PLUG & PLAY are supplied by us for electrical connection of 1× 230 V with installed, current protector and wire.

YES



NO



### 2.2 Preparing the site for Hot Tub Wave installation

If a Hot Tub Wave is installed, safety precautions must be observed. Basic requirements for the safe operation of the Hot Tub Wave are primarily non-slip floors, drainage of the installation site in case of rainfall and overflow of water from the Hot Tub Wave. We therefore recommend that the installation site is adapted to these conditions.

## 3 Hot Tub Wave 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 Filling the Hot Tub Wave with water

Fill the Hot Tub Wave with a sufficient amount of water. The water level in the Hot Tub Wave must never fall below the level of the skimmer. If you find that there is a water leak when filling the Hot Tub Wave 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.

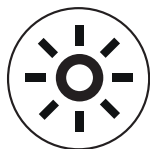
- Fill the whirlpool through the skimmer to prevent the aeration of pumps.
- Do not fill the Hot Tub Wave with water warmer than 104 °F. Water must not be salt.
- When the water reaches the desired level, insert the cartridge filter into the skimmer. When installing it, tilt the filter so that no air bubbles remain in it. After the air has been removed, install the filter.
- Before filling the hot tub, make sure that all the screws on the equipment are tightened to prevent water leakage.

### 3.2 Starting the Hot Tub Wave power supply

If the Hot Tub Wave 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 Wave.

## 4 Control system

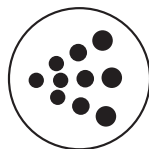
### 4.1 Description of the control system



light



blower



massage



filtration

*LIGHT*

The button is used to switch on the light.

*BLOWER*

The button is used to switch on the bubble massage.

# Control system

- MASSAGE** The button is used for quick control of the massage jets. The force of the water flow can be adjusted by turning the nozzles to the left or right. Thus, if water does not flow through the nozzle, it may not be a malfunction, the nozzle may just be closed. Not all nozzles can be regulated in this way. It is also possible to regulate the strength of the massage when the massage motor is started by turning the suction valve air into the jets, which is located on the top edge of the Hot Tub Wave.
- FILTRATION** The button is used to switch on the filter pump, which is designed to purify the water.

## 4.2 Temperature set up

The temperature in the Hot Tub Wave is controlled only by the stove that is connected. Regulate the temperature by adding fuel (wood, coal). It is important not to exceed a total temperature of 40 °C. Monitor the temperature with a suitable thermometer that is immersed in the water. We recommend our thermometer, where you can monitor the temperature via an app that sends notifications when the set temperature is reached.

<https://eshop.hanscraft.cz/digitalni-bazenovy-teplomer-s-bluetooth-aplikaci>

Failure to maintain the required temperature may result in damage to the Hot Tub WAVE, such as pipework, etc. There is also a risk of scalding by too hot water. Take extra care when adding fuel to the stove. The surface of the stove may be hot and again, burn injuries may occur. Avoid contact with the stove or use protective equipment when adding fuel and handling the stove (stove door, etc.) Failure to comply with the maximum setting temperature (40 °C) can be harmful to life and health. Check the temperature with a thermometer before each use. Never check the temperature with your hands, scalding may occur

## 4.3 Light



The control (button) has a light mode available. The first press button to activate the light, the second press of the button deactivates the light.

## 4.4 Blower



The control (button) has a bubble massage mode. The first press the button to activate the bubble massage, the second press button to deactivate the bubble massage.

## 4.5 Massage



The control (button) has a massage mode available. The first press of the button activates the massage, the second press of the button deactivates the massage.

## 4.6 Filtration



The control (button) has a filter mode available. The first press button to activate filtration, the second press of the button to activate filtration to deactivate filtration.

# 5 Hot Tub Wave care

## 5.1 General information

Do not expose the Hot Tub Wave 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 Wave, cover it with the thermocover, regardless of whether it is empty or full. Protect the Hot Tub Wave from rain and snow. Place the Hot Tub Wave 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 Wave 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 Wave.

## 5.2 Removal and cleaning of the filter cartridge

The Hot Tub Wave 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.

## Hot Tub Wave care

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

### 5.3 Principles of water quality maintenance in Hot Tub Wave

**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.
- b) Depending on the frequency of use of the Hot Tub Wave, 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 Wave 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 Wave, add a shock dose of chlorine 10–20 g/m<sup>3</sup> (2 table spoons) into the water. Add the chlorine only when there are no people in the Hot Tub Wave. 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 Wave.

**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 Wave 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 Wave. 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 Wave.



Store the chemicals according to the instructions on the label.

## Ideal chemical levels

<b>Free chlorine concentration (active oxygen concentration)</b>	0,7–1,0 mg/l (10–15 mg/l)
<b>pH level</b>	7,0–7,6
<b>Calcium</b>	100–180 mg/l
<b>Overall alkalinity</b>	80–120 mg/l

## 5.4 Replacing the water

It is important to keep the Hot Tub Wave 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 Wave water can be used for watering the garden for example, given that it has not been chemically treated at least one week prior.

- a) First, unplug the Hot Tub Wave from the power outlet.
- 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 Wave with fresh water.
- d) Plug the Hot Tub Wave into a power outlet.

## 5.5 Cleaning the outer shell of the Hot Tub Wave

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

## 5.6 Hot Tub Wave 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 Wave. 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.

## 5.7 Thermocover

Using the thermocover 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.

# Hot Tub Wave care/Winter and summer

**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 thermocover does not serve as a fence around the bathing area either. Do not let animals walk on top of the thermocover. Prevent a large snow layer build up on top of the thermocover.**

## 5.8 Upkeep of the thermocover and upkeep instructions

It is important to take a proper care of the thermocover: 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.

- a) The right balance of water chemicals represents an important factor in prolonging the longevity of your Hot Tub Wave thermocover.
- b) Remove the Hot Tub Wave'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 thermocover 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 thermocover before washing it off!**

- e) Wash off the cleaning solution thoroughly.
- f) Return the cover back on the Hot Tub Wave.
- g) Open the thermocover regularly so that the chemical vapours can disperse. Flip the thermocover inner side up at least twice a year for 3–4 hours.
- h) If the thermocover 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 thermocover appropriately, the guarantee becomes invalid.

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

## 6 Winter and summer

**Winterizing the Hot Tub Wave, a process recommended by the producer.**

It is required that all water gets drained from the Hot Tub Wave during the process of winterizing it, as well as water from all the technical parts of the Hot Tub Wave (circulation pumps, pipes, etc.) We recommend you to use our specialized service for this purpose because flawed winterizing of the Hot Tub Wave 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 Wave 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 Wave.

## 6.1 Winter time – using the Hot Tub Wave, all year operation (SLP)

If you decide to keep using the Hot Tub Wave during the winter time, it is necessary to keep checking the Hot Tub Wave 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 Wave, the warranty cannot be claimed.**

## 6.2 Summer time

Do not expose the Hot Tub Wave to direct sunlight; do not use inappropriate cleaning detergents for upkeep. Prevent the Hot Tub Wave 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 Wave by a continuous adult supervision. Only eligible persons over 18 years of age, educated about the whole process, can be operating the Hot Tub Wave. The same goes for handling the water chemicals, which have to be stored out of children's reach.

# 7 Final information

## 7.1 Guarantee conditions

Guarantee conditions abide by terms and conditions of your distributor.

## 7.2 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.



## 7.3 Warranty claims and repair services

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

# Service table/Supplements

## 8 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.

<b>Purchase date</b>	
<b>Delivery date</b>	
<b>Model name</b>	
<b>Serial number</b>	
<b>Seller information (name, phone number)</b>	

## 9 Supplements

### 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.

**HANSCRAFT**<sup>®</sup>  
european spa producer

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