HANSCRAFT®
european spa producer

ASSEMBLY PREPARATION OF THE HOT TUB

Assembly preparation of the hot tub

Dear customer,

we would like to thank you for the trust you have put in our product and us. We sincerely hope you are going to be satisfied using the hot tub. To ensure a faultless installation of the hot tub, it is necessary to comply with the following described steps.

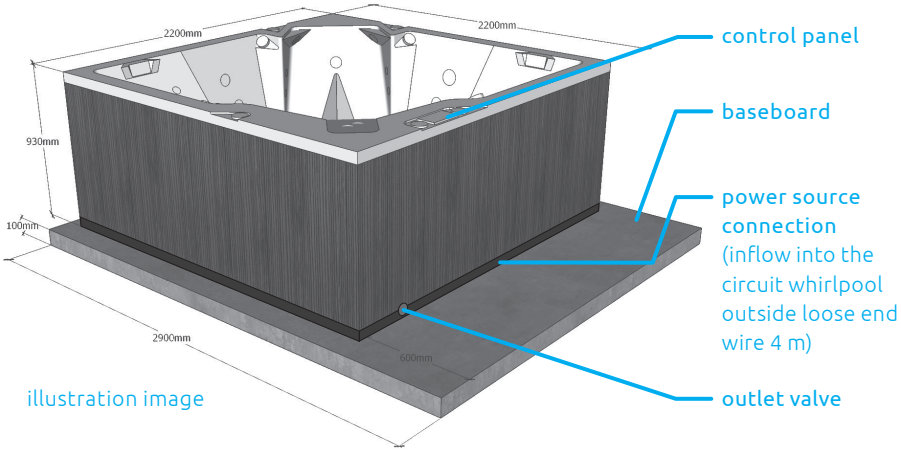


illustration image

1. Underlay for the installation of the tub

The hot tub must be installed on a flat strengthened surface. The surface must be strengthened with regard to the size and the weight of the hot tub. Ideally we recommend having at least a 10 cm thick base plate with gravel subsoil prepared. The weight of the hot tub depends on the model. It is necessary to consider the full weight of the hot tub + water + bathing persons (from 1 100 kg up to 3 300 kg). The load is from 350 kg/m² to 630 kg m². Consult the thickness of the base plate with your construction supervisor. If you decide to place the hot tub on the terrain or if you want to imbed the hot tub under the terrain level, it is necessary to situate a water drain in the place of the installation, not directly under the hot tub though. When imbedding the hot tub, a space of 60 cm around the whole perimeter of the tub must be left open for future maintenance and repairs. The space must be perfectly drained off and ventilated.

2. Preparation for the connection to electricity

a) **Connection of 3× 230/400 V hot tubs**
The hot tubs are prepared by us for an electrical connection of 3× 230/400 V ~ alternating current, therefore, use a motor circuit breaker 3× 16 A/C or D and a

three phase 40 ampere Residual Current protective Device. The product does not use the 400 V phase to phase voltage. Furthermore, it is necessary to have a 5 × 2.5 mm cable. **The cable must also have 4 additional usable meters of length at the point of the hot tub** so that it can be pulled through and connected to the control system without any complications. Do not route the cable under the hot tub, but always through the grommet! The hot tub can also be connected for 1 phase according to specifications listed in the table below. The means for disconnecting the appliance must be incorporated into the fixed wiring in accordance with the regulations for electrical installations.
The disconnect switch must comply with IEC61058-1 and must have a declared cycle count of 10,000. Switches intended to ensure disconnection of all poles in the event of overvoltage must be category 3. If the power cable is damaged, it must be replaced by the manufacturer, their service technician, or a qualified person to prevent the creation of a hazardous situation.

b) **Connection of 230–240 V ~ hot tubs** (PLUG & PLAY)
The hot tubs are prepared by us for an electrical connection of 230–240 V alternating current, therefore use a circuit breaker 1× 16 A/C. A residual current protective device with a cable 3× 2.5 are included with the hot tub.

c) **Technical data**

type of a connection	3× 230/400 V ~	1× 230 V ~	1× 230 V ~
nominal voltage	three phase	one phase	one phase
	400 V 50 Hz	230 V 50 Hz	230 V 50 Hz
total wattage kW/h	8.5 kW/h	8.5 kW/h	2.7 kW/h
value of circuit breaker	3× 16/C or D	1× 40 A/C or D	1× 16/C
current surge	Up to 3× 25 A	Up to 50 A	Up to 20 A
connection cable	5 × 2.5 mm	3 × 10 mm	installed
protective conductor green/yellow	1 × 4	1 × 10	–
ground fault circuit interrupter	3× 40 A	1× 63 A	installed

3. Preparation of the electrical connection of hot tubs DIAMOND

a) The DIAMOND is prepared by us for an electrical connection of 3× 230/400 V ~ alternating current. Therefore, use a circuit breaker with a rating 3× 20 A Type C or Type D. Alternatively, a one series higher version of 3× 25 A Type C or D. It is

necessary that the wiring is equiped with a Residual Current protective Device of the rated value 40 A, which will only be used for the given appliance. The product does not use the 400 V phase to phase voltage. It is also possible to set the connection to 1× 230 V, which is however not recommended due to the necessary limitation of functions. Requirements for single-phase connection are described in the table below. The means for disconnecting the appliance must be incorporated into the fixed wiring in accordance with the regulations for electrical installations. The disconnect switch must comply with IEC61058-1 and must have a declared cycle count of 10,000. Switches intended to ensure disconnection of all poles in the event of overvoltage must be category 3.
If the power cable is damaged, it must be replaced by the manufacturer, their service technician, or a qualified person to prevent the creation of a hazardous situation.

b) A qualified person must provide a supply cable with a conductor cross-section of 5× 4° for a 20 A circuit breaker of characteristics C or D. With a conductor cross-section of 5× 6° for a circuit breaker of 25 A characteristics C or D. A three-phase circuit breaker 40 must be installed in front of the circuit breaker A (this value is due to a larger current surge). The cable must still have 10 usable meters at the point of the whirlpool, so that it can be pulled through and connected to the control unit without complications. Do not route the cable under the hot tub, but always through the grommet!

c) **Technical data**

type of connection	3× 230/400 V ~	1× 230 V ~
nominal voltage	three phase	one phase
	3× 230/400 V 50 Hz	1× 230 V
total wattage	up to 11 kW/h	up to 11 kW/h
value of circuit braker	from 3× 20 A/C or D to 3× 25 A/C or D	50 A/C or D
connection cable	5× 4° (circuit braker 3× 20 A/C or D) or 5× 6° (circuit braker 3× 25 A/C or D)	CYKY 3J × 16
protectivce conducter	1× 4°/6° according to the selected cross-section of the conductor in the supply cable	1× 16 mm
ground fault circuit interrupter	3× 40 A	50 A

4. Other information

– Parts containing live conductors, except for those powered by a safe low voltage not exceeding 12 V, must not be accessible to persons in the bath.
– Grounded parts must be permanently connected to a fixed installation.
– Parts containing electrical components, except for remote control devices, must be positioned or secured in such a way that they cannot fall into the bath.

Fill the hot tub with water with a garden hose using the skimmer, drain the hot tub once every three months (in regard to the frequency of its usage). Before you drain the hot tub, make sure the concentration of the chemicals is lowered enough not to create risks for wastewater purifying plants and organisms living in the water. If you are not sure, ask the local sewerage facility.

Do not ever drain the water into a septic tank or home wastewater purifying plant!

In case of purchasing a thermocover, you must allow for 20 cm of free space alongside the longer sides of the tub and extra 60 cm next to the place where the thermocover will tilt. If the hot tub is imbedded, it is necessary to allow for 60 cm of free space around the whole perimeter of the hot tub and it is not possible to use a thermocover lift. If the hot tub is to be placed next to a house wall or a terrace, an access to side panels from all sides of the hot tub must be ensured. It is required that during the installation, repairs and winterization, an access to all side panels from all sides of the hot tub is secured or a possibility to move the hot tub for the reasons mentioned exists.

Do not install the hot tub in places where there is a risk of sunlight being amplified by glass surfaces, which can cause extremely high temperatures. For example, if the hot tub is located under a glass roof, etc. Damages caused by these circumstances are not covered by the warranty!

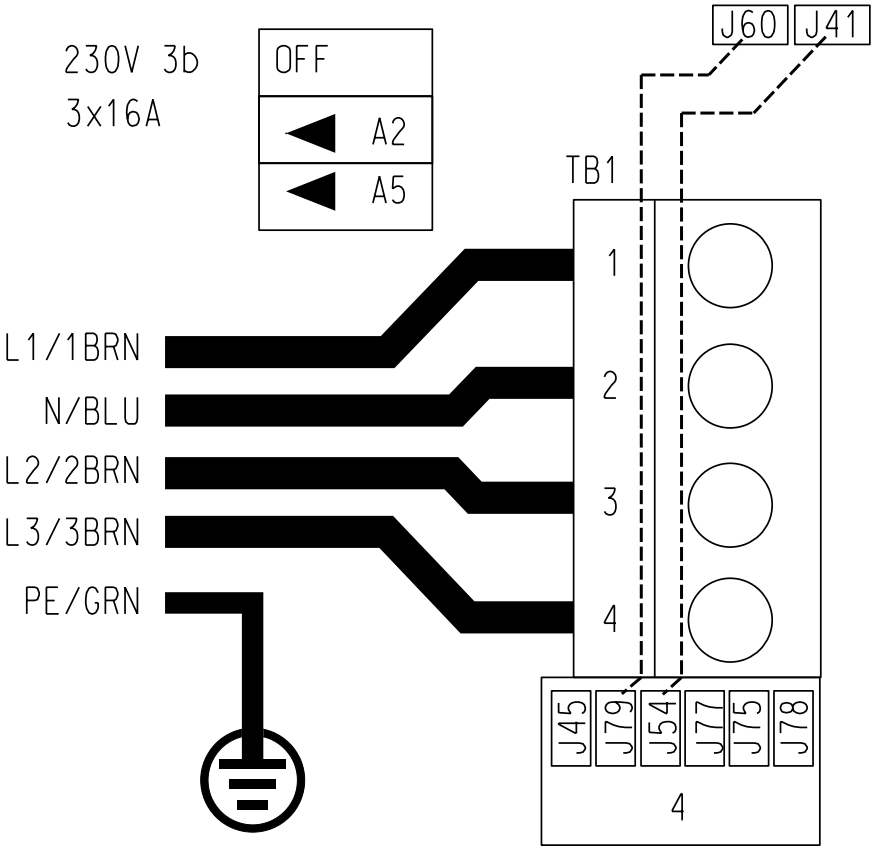
If the installation requires a crane, customers reserve it themselves. The crane is required only for installation of the hot tub on a raised floor or when the location of the hot tub placement is poorly accessible. The customer reserves a sufficient number of people to handle the hot tub installation. For smaller models it is usually 4 people, the bigger ones require 7 people. Do not lift the bath by any part of the pipe-work!

Assembly preparation of the hot tub

If the instructions in this document are not complied with, the technician will not be able to connect the hot tub. The technician is allowed to leave the place of the installation in that case and the customer loses their right for a refund. Any following plans for finishing the installation will abide to the installation calendar and the customer will be charged for them.

Thank you for using Hanscraft Czech quality products.

5. Electrical connection diagram



HANSCRAFT®
european spa producer

last update: 18. 9. 2025

HANSCRAFT, s.r.o.
K Vodojemu 140
252 19 Chrášťany u Prahy
CZECH REPUBLIC

www.HANSCRAFT.eu

TÜVRheinland® CERTIFIED

Safety
Regular
Production
Surveillance

www.tuv.com ID 0000088558