

MultiTub

Arctic

User's Guide



WARNING!

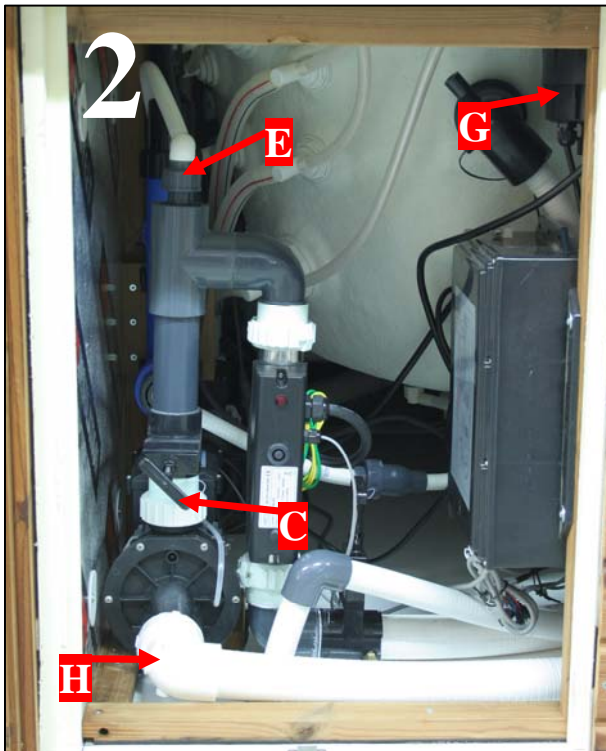
- Read the technical instructions before installing the bath
- Read the users instructions before using the bath
- Do not bring sharp objects into the bath
- Contact the seller if the colours appear to be changing under or on top of the coating
- If a leakage appears contact the seller immediately.
- All electrical work should be performed by a qualified electrician
- Do not leave children in the bath without supervision
- Do not sit with your back or head against the skimmer
- For the MultiTub Arctic, a mains connection of 230V, 1x16A, 2x16A with Ground Fault Current Interrupt (GCFI) is required. A service switch, which is closely installed to the electrical connection, is recommended.
- **ATTENTION!** If the hot tub will be integrated e.g. into a terrace it is necessary that the access is not obstructed in any way order to be able to service it. Service hatch and outer panel should be removable without difficulties.
- If automatic dispensers (floating, etc.) are used, careful adjustment should be made to avoid incorrect dosage. Follow the recommendations in our instructions.
- The circulation pump also generates heat and if it is running a long time (e.g., continuous filtration TM) it can raise the temperature by several degrees in one day since the tub is well insulated.
- Check the quality of the water, as well as temperature and function, regularly, don't leave the spa unmonitored for long time periods.

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MULTITUB DURING STARTUP

1. Make sure the valve **(A)** on the right of the filter is open by pulling the red handle upwards and opening the air screw **(B)**. Close it when water starts seeping out.
2. Make sure the valve for the circulation is open. Start and carefully open the nut **(E)** on top of the pump to let the air out. Close when water comes out.
3. The preferred water level for keeping the filtration working optimally is about 5 cm below the skimmers upper edge.



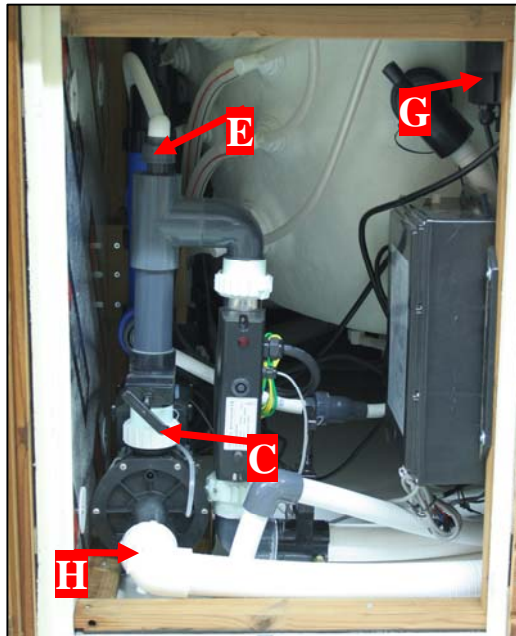
**FOR DRAINING,
SEE NEXT PAGE**

DRAINING

Draining of water

1. The spa has four service hatches, one in each corner, two of these are attached with screws and the two others have a locking mechanism. **ATTENTION!** If the hot tub will be countersunk e.g. in a terrace it is necessary that the access is not obstructed in any way order to be able to service it. Service hatches should be removable without a problem.
2. For draining of water there is a tap installed in the vicinity of the filter cartridge holder, see picture 1 (D) on the previous side. Remove the round lid in the base (J) and drain the water via the hole. Don't forget to put the lid back after the draining. Start the blower via the control panel. Let it run for a few seconds before turning it off again.
3. Loosen the lowest nut (H) on the pumps. It doesn't have to be loosened completely, just so that the water will drain out of the pump. Do the same with the nuts for the filter (I). Leave the nuts open. **ATTENTION!** Some models have drainage hoses installed so that draining is done by opening a quick release coupling (K) near the drainage hole (J).
4. If draining is done in freezing temperatures then the hatches should not be kept open without protecting the equipment, also read "avoid damage from freezing". Otherwise follow the instructions above.

Attention! When the spa is to be drained of water for a longer period of time, or if there is a risk of freezing then the circulation pump, massage pumps and nuts for pumps and filters shall be left open. If draining is done only for changing the water it is not necessary to drain the pumps of water or open these connections. Also read "Avoid damage from freezing". In the four corners of the bottom there are holes where water from draining of for instance pumps can run out. It's also okay to wipe up the water that remains at the base with a rag.



USER MANUAL for the SG-0007B SYSTEM

This product is meant to be used for electronic control of functions for spa baths. Please read all of the instructions carefully before enjoying the spa. **WARNING:** Operating the system without water will cause severe damage. Contains electronic components, shock hazard. Does not contain user serviceable parts. Do not try to repair the control unit. Contact your dealer or service center for help. Follow all user instructions.

I. Installation

- 1) Open the door / cover according to the instructions and connect the power supply correctly.

Warning

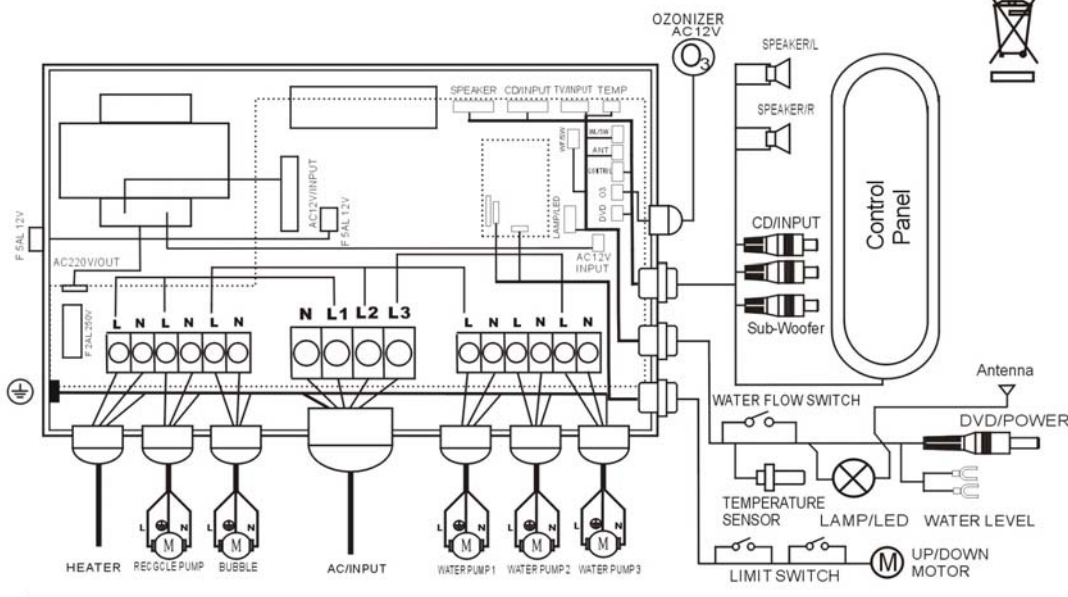
- A. Installation is only to be made by qualified persons.
- B. Read the instructions carefully before beginning the installation.
- C. We are not responsible if the product does not work or is damaged when the instructions are not followed during installation.
- D. Ensure that the system is not damaged during transportation when it is unpacked.



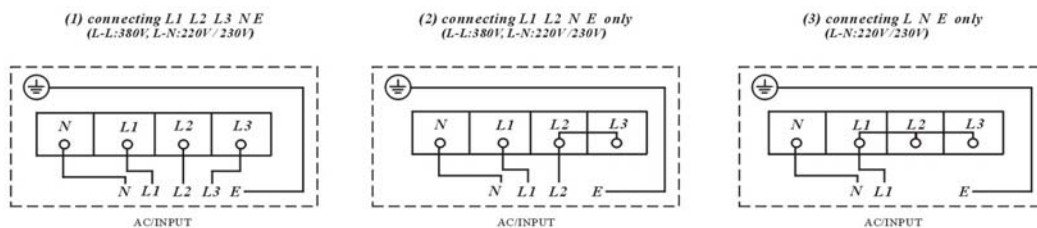
Note!

- A. 1 x 16A (Read “Interlocked system between the heater and pumps”), 2 x 16A or 3 x 16 should be connected to the control system. Do not connect the power before the installation is complete.
- B. Install a maintenance switch close to the control system for use during maintenance work.
- C. An earth switch must be installed. Check that the earth switch works when the power is connected.

SG0007B Sketch Of Linking Wires For The System



WIRING DIAGRAM 3-phase, 2-phase, 1-phase



(Figure 1)

USER MANUAL for the SG-0007B SYSTEM

II. Operating instructions





(Fig 2)




- **ON/OFF key (power key):** Connect the power supply and press the ON/OFF key. All the control systems are now ready to run (indicator light is on), and the circulation and Ozone disinfection system (if one exists) will start working automatically (if the water temperature is not at the pre-set temperature, the heating system will start to work in 60 seconds). The panel will display the circulation and Ozone symbols (a symbol for the heating system will also be displayed on the panel if the heating system is working). The panel will also display the detected water temperature. Note! If no button is pressed within 60 seconds, the displays backlight goes off, it reactivates if a button is pressed.
- **PUMP key:** press the (JET1) key. Its symbol will now appear on the panel, signifying that massage pump 1 has been activated. JET1 and JET3 work in the same way and have their own symbols with numbers 2 and 3 on them. JET1, JET2 AND JET3 are accessories for some spa models. **NOTE:** The massage system will shut down automatically in 20 minutes. **NOTE:** There are some air valves on the topside of spas near the seats. They are to control the strength of the hydro-massage in the respective seats.
- **BUBBLE key:** Press the key. Its symbol will appear on the panel, meaning that the air massage system has started working. **NOTE:** The blower automatically shuts down after 20 minutes.
- **O3 key (Ozone):** Pressing the O3 key will turn on or off the Ozone disinfection system (Ozone and circulation pump work automatically when activating the spa). **NOTE!** Ozone can be an accessory and another alternative is the UV-C ozone cleaner. See “UV-C Ozone Cleaner” under “Summary”.
- **LAMP key:** When the control systems are ready to work, first press the key. Its symbol will now appear on the panel, signifying that the underwater lights are on, the colour will change automatically; with a second press, the color will be fixed on a certain color; press for the third time to shut it off. **NOTE!** The lamp shuts off automatically after 60 minutes.
- **TEMP key (needs to be used together with ▲/▼ key):** If the TEMP key is pressed for 5 seconds, the panel will display the water temperature set last time. This temperature will keep flashing: Press the “▲” key to adjust the temperature to the highest at 42° ; press the “▼” key to adjust the temperature to the lowest at 10° . The new temperature will be automatically stored and the display will then return to show the current water temperature after flashing for 60 seconds or if the or button is used.
- **RADIO/AV key (Radio/DVD/Control and display of temperature):** When the control systems are ready to work, press the RADIO/AV key to activate the Radio function. The panel will now show the radio channel set last time (under Radio status, press +/- key to select pre-stored radio stations); a second press will activate the TV function (this function is optional). The panel will now show a TV symbol. A third press will activate the DVD function (this



USER MANUAL for the SG-0007B SYSTEM

function is optional). The panel now shows a DVD symbol at the same time (Under DVD status, press the +/- key to adjust the volume of the DVD). Press for the fourth time to show the detected water temperature.

- **TUN/VOL key (needs to be used together with the +/- key):** Under Radio status, first press the TUN/VOL key. The panel will now show a 2-digit volume, pressing +/- will adjust the volume upwards or downwards (the panel will automatically show the radio frequency when you stop adjusting for 3 seconds). With a second press, the current frequency will flash. Pressing the +/- key will adjust the current frequency. This frequency will be stored automatically after flashing for 3 seconds. With a third press, the panel will show the radio channel. Press the +/- key to select pre-stored radio stations (the panel will automatically show the previous radio frequency after you stop adjusting for 3 seconds). With a long press for 5 seconds, the system will automatically search for radio frequencies again and store the searched frequencies at a different channel sequentially.
- **Heating system:** After the control systems are ready to work, the heater will start working 60 seconds after the circulation pump is activated, unless the temperature sensor detects that the set temperature is lower than the detected one. When the water temperature reaches a set temperature, the heater will stop working automatically. When the water temperature is under 2° of the preset one, the heater will reactivate. The symbol for the heater is located above the circulation pump symbol , it appears as pulsing bubbles.
- **NOTE:** The heater will not be activated if there is not enough water flow.
- **Interlocked system between the heater and pumps:** Pressing and holding the ON/OFF key again for 20 seconds will change the system between interlock mode or non-interlock mode (the indicator light on the ON/OFF key shows **RED** in interlock mode; while it shows **GREEN** in non-interlock mode). When in interlock mode, the heater will stop when you press any of the pump and bubble keys. This feature is meant to reduce the power needed for the spa so that it can match the power limit of some countries (1 x 16A). In non-interlocked mode, the heater will keep running when the other pumps are activated unless the water temperature reaches the set temperature. **NOTE!** That requires at least a 2-phase connection if the total effect for pumps and heating exceeds 3680 W.
- **Temperature sensor self-checking system:** If E1 is displayed on the panel, then the temperature sensor is disconnected. In this situation check the wiring of the temperature sensor to see if it's properly connected. If E0 is displayed on the panel, then the temperature sensor has short-circuited. In this case, the temperature sensor must be replaced. The heating system cannot be activated under the two above situations.
- **Water-lacking protection system for circulation pump and heater:** In daily usage, a blockage of the filtration medium (cartridge filter or filter bag) will eventually occur. A severe blockage will lead to a lack of water for the filtration pump. Air in the system often leads to the same problem. For instance, during startup if aeration has not been performed according to the instructions in the manual. When there is a lack of water, the filtration pump and heater will stop working automatically. At this moment, the symbol of the filtration pump  on the control panel will flash continuously, to remind the user that it is time to clean or replace the filtration medium. After cleaning or replacing the filtration medium, press ON/OFF several times to expel the air inside the pipe until the filtration pump works normally.
- **Anti-freezing system:** After power on to enter standby status (the indicator light on ON/OFF key flashes), the anti-freezing system will be activated instantly. The circulation pump and heating system will automatically stop at the default temperature of above 10° . When the water temperature in the spa drops below 9° , the circulation pump, heater and air blower will work automatically, Jet1 (accessory) will automatically start to work in about 85 seconds; and it will stop after working about 85 seconds; then Jet2 (if equipped) will start to work for about 85 seconds and stop; finally Jet3 starts to work (if equipped) for about 85 seconds then stops. Pump1, Pump2 and Pump3 will continuously cycle among themselves. When the detected water temperature reaches 10° , all the pumps and heater will stop working. When this system is running, the screen background light is on. When the water temperature reaches 10° , the screen returns to the standby status.



USER MANUAL for the SG-0007B SYSTEM

Manual working mode: Turn on the spa, then press and hold the  key for 3 seconds to enter manual mode (the indicator light on the  key will show **GREEN when in manual mode**, indicator key 3 will light up). If  is selected the filtration pump (and thus the filtration) is on continuously, 24h per day without stopping in between.

Automatic working mode: Automatic working mode is on by default. Press and hold the  key for 3 seconds to switch over to automatic mode (The  button will light up). The circulation pump starts and runs for 1 hour (the display panel will cycle between "ON" and water temperature, indicator key 1 will light up). After 1 hour the pump will stop for 3 hours (the display panel will cycle between "OFF" and water temperature, indicator key 2 will light up). As long as the system is in automatic mode this filtration cycle will repeat indefinitely.




The keys 1, 2 and 3 (FILTER PROGRAM) are non-functional keys and only act as indicators.

NOTE:

- If the spa is in automatic working mode, please don't turn off the spa when not in use. Make sure the spa is always "on".
- When in automatic mode, the filtration pump will also be controlled by temperature. If the water temperature is lower than the preset level, during the "OFF" period, the filtration pump and heater will work until the water temperature has reached the preset level. Then, the filtration pump will return to work for 1 hour and stop for 3 hours repeatedly. When the automatic mode is not in use the circulation pump is always on. If the water temperature drops 2° under the pre-set level the heater will activate.
- Each time the spa is switched on, the system will go into the previously set mode. Press and hold the  or  key for 3 seconds (the indicator will show **GREEN**) to switch between automatic mode and manual mode.

Summary:  and 

If  is selected the filtration is handled automatically in cycles of "1 hour on, 3 hours off".

If  is selected the filtration pump (and thus the filtration) is on continuously, 24h per day without stopping in between. If the preset temperature is higher than the actual water temperature then both the circulation pump and heater are activated until the water temperature reaches the chosen setting. The Ozone will automatically work together with the filtration pump and heater. This applies in both  and  modes.

WARNING! The circulation pump also generates heat and if it is running a long time (eg, continuous filtration TM) it can raise the temperature by several degrees in one day when the tub is well insulated. Avoid using the TM function other times than when the water needs to be filtered further. Always check water quality and temperature after using TM for one day.

FILTRATION PUMP - NOTE! If the hot tub is equipped with a massage pump it will be connected to "WATER PUMP 1". If there are two massage pumps the second is connected to "WATER PUMP 2".

UV-C OZONE CLEANER If an UV-C ozoner cleaner is installed, connect it so that it activates the same time as the circulatory pump.

BLOWER (BUBBLE) - ATTENTION! If the blower is used often and for prolonged periods of time, the blowers built in thermal protection might activate. The blower will stop and not restart until it's cooled down enough. You can speed up the cooling by opening the service hatch(es). In doing so, please protect the equipment from potential freezing damage.

MULTITUB - CLEANING AND CHANGE OF FILTER

1. The spa has four service hatches, one in each corner, two of these are attached with screws and the two others have a locking mechanism. Open the service hatches where filter and circulation pump are installed. The latch has a locking system that ensures there are no gaps between hatch and frame. When opening and shutting the latch, please pay attention to following instructions: Press on top of the hatch above the keyhole in order to loosen the weight because otherwise it can get difficult to shut / open it and ending up in breaking the key.
2. Start the pump (keep the T/A button pressed until it starts) if it's not already running. Close the valve **(A)** on the right side of the filter by pressing it down. Open the screw **(B)** for the air above the filter top piece.
3. Be prepared to close the valve **(C)** that is on top of the circulation pump when the pump stops. This is important to do, so water will not flow back into the filter cartridge holder.
4. Unscrew the nut and take off the top of the filter. Loosen one of the white nuts and take the filter container out in a bit of a slanted way.

To ensure good water hygiene, it is important that the filter is continuously cleaned by rinsing at least every second week, and by cleaning it properly in a cleaning liquid every second month or when necessary.

Now you can remove the filter and clean it. For such situations we do recommend having a spare filter.

Assemble it the opposite way: Tighten the nut on the cartridge holder, leave it slightly loose so it will be easier to reopen it. Make sure the valves are open. Start and carefully open the nut **(E)** on top of the pump to air it out. Close when water starts to pour out.

Attention!

Do not start the system without any water running and watch out that both – the tap next to the filter (suction side) as well as the tap on the pressure side are open, meaning the part connected to the pump (not the draining valve). When emptying the tub from water please do leave valves and nuts till pumps and filter open.

Water level

A suitable water level in order to keep the filtration system functioning properly is about 5 cm below the skimmers (the brown part with vertical slits) upper edge. If it is beneath, then the pump starts sucking air instead of water into the filter and the control system then shuts off the pump and heating. Too much causes the surface water to not be pulled into the filter.

