

LAYZEETUB OPERATING INSTRUCTIONS

We here at Layzee Living are as excited as you are at the purchase of your new wood burning LayzeeTub! The joys of outdoor bathing and relaxation have immense physical and mental benefits for you and your family or guests. We've put together this document for you, which will outline important safety instructions as well as maintenance procedures that will ensure you and your family or guests will have a relaxing and safe experience for years to come!

Safety Note

The stove is HOT during operation; even more so is the flue; as such **WHEN THE STOVE IS ON, DO NOT EVER TOUCH IT.**

Installation

The majority of the time the new tub will arrive completely intact and require no additional construction. That said you still need to be able to get to your chosen site. Tubs can be 1 and a half to over 2 meters in diameter and weigh upwards of 300kg depending on the size and type of wood chosen.

The tub could be lifted by a group of four to five people and carried into position, otherwise a crane or tele handler may be more applicable depending on your location and where you want to put it, we deliver on its side though so it quite manageable with 2-3 people.

It is very important that the external stove and the tub are always level to one another; as they were fitted together during construction this needs to be maintained. It is vitally important that the upper or HOT hose continues slightly upwards from the stove and into the tub; otherwise the system will not function as it should, this should naturally happen as we build the tubs with holes in the correct places to facilitate this.

Your stove chimney should fit together simply and only needs to be pressed into place at the collar of the stove.

Once you've placed your hot tub where you want it ensuring it is level; you can begin to fit your external heater hoses into place (models with external heaters only); securing them with appropriate jubilee clips provided. The hoses would ideally need to be straight (not kinked) for a better water circulation. Elbow shape connections are also available to buy but do not try to bend the actual hose as this will obstruct the water circulation.

The drain outlet may need screwing on although most now are coming already fitted, this is a quick drain and will empty your tub very quickly, a 25mm I/D hose can be purchased in any decent garden shop/ builders merchant and this can be attached to this drain to take the water away to a drain or flower bed, you can see the drain in this picture to the right of the heater door, to drain simply pull (sharply) the silver knob on side of wooden surround to open plug in liner, then open drain valve at low level on the outside, if you want to take the outlet to a hose you need a 1" male screwed adaptor to the size of hose you want.



Lid/ Cover (If supplied)

Please note: the wooden lid will react to the steam and sun and might get warped eventually regardless of how well the wood is treated. This will still do the job it's meant to do (keep the rubbish away from dropping into the tub) but may lose the brand-new aesthetic look. This is considered as normal wear and tear and will not be covered under any warranty. We recommend to leave the lids off the tub until the water cools down which will prolong the life-span of the wooden lid. Insulated and fibreglass lids should maintain their look for a long time, insulated may go lighter in the sun, this is perfectly normal.

Operation

Please follow these simple instructions to get the very best experience from your LayzeeTub. we recommend the traditional Swedish and Japanese way of using your tub.

To begin, simply fill the hot tub with cold water with a garden hose. You can also collect rainwater if you so desire.

A full hot tub contains up to 1800 litres or 1.8 cubic meters of water when full, different models vary by size/ volume.

Once you've filled the tub, and **ONLY** after filled can you begin to kindle a fire in the stove.

Our Layzee hot tubs are heated by a wood fire which you operate yourselves. On the outside edge of the tub (or a separate heater if external heater is purchased) is a wood fire grate which you light using kindling and firelighters. Once the kindling is burning nicely, you add a few small logs to build a fire and once that's burning you start adding logs every 15 minutes until your water is hot, softwood or hardwood logs are fine but hardwood logs are best as they create less soot, we recommend moving onto hardwood once the tub is up to temperature. You ideally need to stay near the tub at this point to keep feeding the fire with logs.

IMPORTANT – the **fibreglass liners** temperature should not go higher than +55C° as higher temperatures can damage the fiberglass gel coating (may start blistering). Once the hot tub is fired up, you need to make sure of regular stirring of the water so the hot water doesn't concentrate around the heater's outlet.

When the hot tub is filled up with water (10cm from the top of the hot tub edge), you can fire up the heater. The best way to fire up the hot tub is start with kindling and paper (fire lighters (tablets) can be used). When the flame gets bigger you can add bigger pieces of wood. It is recommended to use dry, well-seasoned wood. Fire intensity can be adjusted with the vent located on the front door of the heater which regulates the air intake into the burning chamber.

IMPORTANT

- Do not load more than 2 thirds of wood of the height of the heater.
- If the hot tub is not filled up to the right level, you can't light the heater, because the emitted heat will damage the tub and the heater.
- Water from the hot tub can be drained only when the heater is completely cooled, otherwise, the heat will damage the hot tub and the heater itself.

With tubs with an external heater, the heater must be placed on flat, firm ground the same level as the tub or can be very slightly lower. Natural convection carries the heat into the water, additional pumps or filtration systems to assist with heater's circulation should not be used.

NOTE: If you continue to burn wood in the stove; you are going to continue to heat up your water. While this seems straightforward it does carry a risk that the water could get very hot. Always check your thermometer to assess whether the tub is getting too hot for your liking, and stop adding wood to the stove once it has. Your external heater will also have an air circulation control on the door which would then need to be shut. Your target temperature should not exceed 42C degrees. If it does get too hot simply topping up with cold water will bring the temperature back down again.

ALWAYS allow the fire to completely go out before you drain the tub.

NEVER DRAIN YOUR TUB WHILE STILL IN USE! – If you have fired up the stove during this time; the lack of water can seriously and irreparably damage your heater as well as the tub; there is also a risk the wooden tub could catch fire.

Take a shower before using the tub to ensure the long-lasting quality of your water.

Always ensure that the water level covers the firebox of the heater when the burner is lit, not doing this may cause damage. We recommend keeping the water level approx. 30cm from the top when heating. This will obviously rise as more people enter the tub and will drain on its own if over filled.

Your LayzeeTub should be up to temperature within 1.5/2 hours, maybe a bit longer in winter months. You can regulate the heat and draft of the burner by sliding the burner door vents to the desired position. As the water heats you can stir occasionally with the paddle provided. This will give a better overall temperature. For faster heating you can cover the tub with the 2-piece lid provided, (depending on the type of cover ordered). When you reach the desired temperature don't add any more logs, close the burner lid fully allowing the fire to just tick over, climb in and enjoy! If your tub has air and hydro systems fitted you will find the buttons that operate these systems and the LED lighting (if fitted) on the outside timber wall of the tub, a simple push starts each system and a further push stops it, these buttons have a small air tube on the back of them which operates an air switch, it is not uncommon for these to come loose over time, if you find a system stops working, please first check that these tubes have not become dislodged.

Occasionally you will want to stir the water in the tub, we provide a beautiful wooden paddle for this function. It's the only way to get an accurate temperature reading, since hot water rises and cold water sinks; you want to make sure you mix your tub water well for the most enjoyment out of your tub. Check your pipes regularly to ensure there are no restrictions or clogs of any sorts. You can do this by simply placing a hand near an inlet/ outlet or simply visually check for any sort of heat induced haze in the water that would indicate circulation.

Our Tubs utilise some form of stainless-steel flue, it is normal for it to become discoloured through use, somewhat bronzing or becoming gold. This is a natural effect within metal and is not something that can be changed.

Children under 5 should be carefully supervised and accompanied by an adult at all times, as high temperatures can affect little ones much quicker than adults, the tub should be kept to a temperature of 36 C if possible. Older children can use the tub but must be accompanied by an adult at all times. If anyone using the tub begins to feel unwell be sure to leave the tub.

Anyone with medical conditions should check with their doctor before using the tub.

A drinks holder is supplied for you and we do recommend drinking plenty of water whilst using the tub and avoid drinking alcohol if possible.

Periodically check your burner so as not to let the fire go out completely and add logs as needed.

When you have finished enjoying the tub it's always best to place the cover back on the top. This protects the tub from leaves and any other bits landing in the water. Please don't sit or place anything on top of the lid, if you put the lid back on after use it will retain some heat ready for the next day if required.

If you plan to use the tub again the following morning after evening use you will find that the insulating properties of your LayzeeTub are fabulous and should only require 30-40 mins time to reheat to full temperature.

1. The user of the hot tub shall ensure and follow these rules:

- 1.1. Hot tubs with wood burners are for outdoor use ONLY.
- 1.2. Positioning – the tub shall be positioned as level as possible.
 - 1.2.1. Incorrect positioning may lead to bad hot water circulation between tub and the heater.
 - 1.2.2. If the heater is located on the terrace or any other flammable surface, that surface must be covered by a non-flammable material.
 - 1.2.3. The support materials/ base shall be strong enough to support the maximum design load of the tub, water and bathers
 - 1.2.4. Position the tub a safe distance from flammable objects:

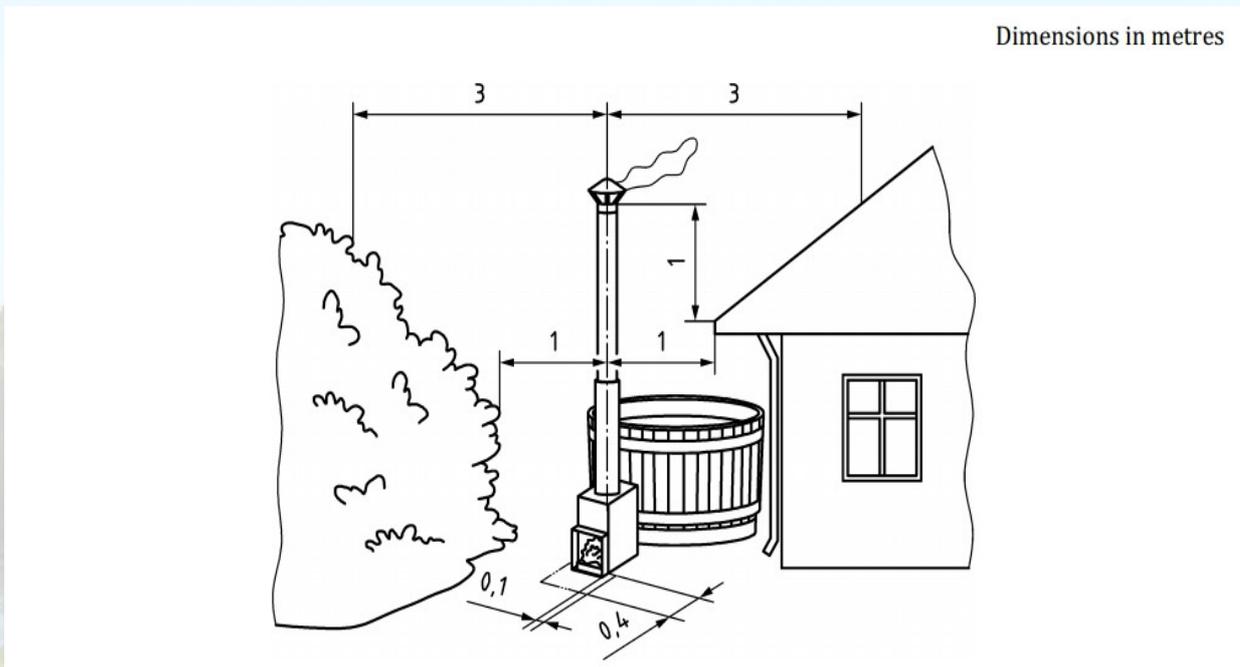


Figure 4: Minimum distances for firewood heated hot tub

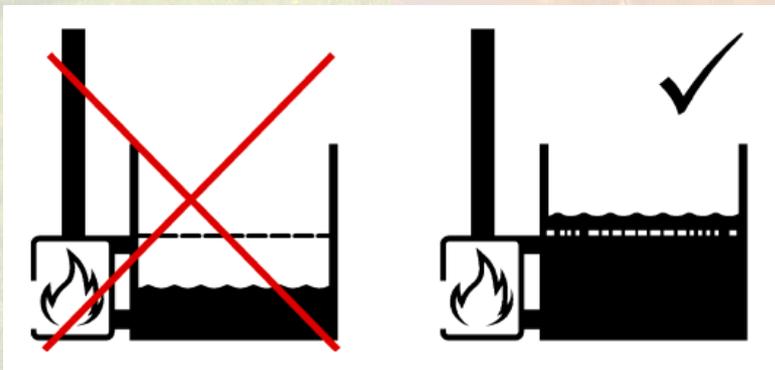


Figure 5: Necessary water level

- 1.3. When heating wood-fired spas, dried (not wet) fire-wood should be used only.
- 1.4. Metal or any non-flammable material shall be used under the heater, if heater stands on flammable surface.

- 1.5. Use water thermometer before entering the hot tub. Mix the hot surface water with the cooler water below to prevent false readings. Water has to be stirred by paddle or Jacuzzi or air bubble system before measurement. This is to be performed before measuring the temperature and entering the hot tub water. A safety check of the temperature with the bather's elbow is also recommended just before going into the water.
- 1.6. Monitor the water temperature during bathing so that the heating may be adjusted higher or lower accordingly. Heating requirements during the actual bathing period depends on the tub and surrounding temperature and wind conditions.
- 1.7. When the tub is empty, prime the circulation pump and let it run for a few minutes in order to pull out water and air from the hydraulic circuit of the spa.
- 1.8. Never leave water in the tub and heater when the air temperature is below 1°C.
- 1.9. Always fit the cover onto the spa while not using.
- 1.10. Always keep the spa cover on to minimize heat loss during heating of the spa.
- 1.11. Maintain clean filters (if purchased) to preserve appropriate working conditions for the pump and avoid unnecessary water replacement and re-heating.
- 1.12.

SPA SYSTEMS - THEIR USE AND MAINTENANCE

AIR MASSAGE SYSTEM: air compressor 700W power, 12 pcs. Air jets – mounted in the wall of the tub, as well as other installation materials. Air massage on/off button is located on the panel of the hot tub. After releasing the water from the hot tub, keep the air massage active for 30 seconds to remove water from the system. **IMPORTANT**—in the cold season, you should only turn on the air system when the water temperature is above 30°C.

WATER MASSAGE SYSTEM: Water compressor (900W – 1100W dependant on model) power and 6 or 10 water jets. Water massage on/off button is located on the panel of the hot tub. Water massage system has an additional knob which regulates the intensity of the water squirting power. After releasing the water from the hot tub, keep the hydro massage active for 30 seconds to remove water from the system. **IMPORTANT**—in the cold season, you should only turn on the hydro system when the water temperature is above 30°C.

As long as you blow both systems out momentarily after each use the spa system pipework should not need further maintenance, the water you blow through it if using chemicals prevents the build-up of bacteria and dirt, if using chlorine or bromine-based chemicals then an upgraded 316 heater should be purchased.

PREVENT THE HEATER FROM FREEZING:

In very cold areas (with temperatures below 0°C), please remove the draining stopper after use to release access water. It's also recommended to disconnect the heater and move it to a storage place without risk of freezing.



We hope you enjoy using your LayzeeTub. It's all very simple really, light the fire, enjoy the experience, gorgeous smells... and relax...

WARNING: USING THIS TUB WILL CAUSE SERIOUS RELAXATION!

For more information visit us at www.layzeeliving.co.uk

Maintenance

Wood fired Hot Tubs don't require as much maintenance as electric "always on" models. The heater requires very little maintenance and only needs to be cleaned out after using 3/4 times. It actually works better with some ash left inside.

Periodically disconnect the chimney (It is modular) and clean any built up of soot. Soot should also be removed from the stove if it builds up. If this isn't something you're comfortable with you can always contact a stove specialist if necessary.

Ideally you should change the water in your hot tub after every use however you can use it several times across a couple of days, this is more to personal taste. If you're going to leave the tub for a time, you should drain, rinse and refill the tub prior. Your external heater if supplied also has a separate drain plug at the back.

Every few months you should check the metal bands around the exterior and tighten them if required. If the stud which connects the strap looks bent, you should slightly loosen up the strap as it may snap under extreme tension.

The tub's exterior is already treated properly with oils meant to protect it from UV damage; waterproofing and it will resist fading. We recommend to apply some wood treatment at least once a year however over the life of your tub it will begin to silver; you can continue to maintain it with oils to keep up the appearance, but you should not use a pressure washer from too close as it can damage the wood. If you don't re oil the wood, it will simply age naturally. Tub can also be painted or varnished to your personal choice also.

Instructions to maintain the hot tub as a minimum:

A. Daily hot tub maintenance:

It will take only a few moments to attend to your hot tub's daily maintenance. You should ensure:

- The hot tub cover is clean and secure. A properly secured cover keeps heat, water, and chemicals in while keeping debris, pets, and kids out.
- The water temperature is balanced and adjust as necessary;
- Check for damage to the cover and hot tub. This is especially important, because outdoor hot tubs might be exposed to animals and the elements.

B. Weekly hot tub maintenance:

If you want to keep your hot tub in perfect condition, then it will require your attention at least a few times a week. No need to stress out - just schedule your time the same as your daily tasks to check your hot tub's:

- Sanitizer levels. Disinfectant keeps your hot tub water clean and free from harmful bacteria, we recommend a product like Oxy Active treatment, there are many similar out there but we do not recommend Chlorine or Bromine based disinfectants unless you have upgraded your heater to 316 stainless, the standard 304 stainless heater will corrode over time if halogen based sanitisers (chlorine or Bromine) are used, only a small amount of oxygen shock treatment is needed, the product packaging will guide you on quantity. If you are using chlorine or Bromine based chemicals we recommend you thoroughly rinse with fresh water any spa system nozzles, any external metal work including flue as if chemicals are allowed to settle on these parts they will corrode over time.
- Cleanliness above the waterline. Wipe away the debris that might contaminate the water and throw off the chemical balance.
- Filter (if fitted). Please rinse hot tub filter with water as a clean filter is essential to its efficiency.
- Cover. Cleaning the cover inside and out protects against mold, mildew, and the nasty smells they bring.

C. Monthly hot tub maintenance:

For a more careful hot tub clean-up you will need to spend a bit of your time once a month. Specifically, to take a closer look at your jets and filters. You can also take water testing to the next level. You'll have to give:

- Filter (if fitted) a chemical rinse. This clears out more dirt and bacteria than water alone can. Just replace one weekly water rinse with a chemical rinse;
- Test the hot tub jets. Are they all working properly? With chemical added to the water simply turn spa systems on for a couple of minutes to ensure that the pipes have been flushed through with chemical

D. Quarterly hot tub maintenance:

Once every three or four months, you should have a proper inspection over your hot tub inside out. We advise you to empty the hot tub and give it a good wash with soapy water, and make sure everything's in good working order. You should ideally:

- Clean your hot tub external frame. Your hot tub will look great with a quarterly clean, and you can touch up any cosmetic or structural damage while you're at it.
- Give your filter (if fitted) a chemical soak. This is the super version of the chemical rinse and gives your filter the deep clean it needs to keep your hot tub free of contaminants.
- Drain, clean, and repair your hot tub. It's always the best time to make repairs is when you drain and clean your hot tub. And a quarterly drain and clean frees your whole hot tub from chemical buildup and other debris that can cause performance issues.

For our commercial customers we recommend the following routine:

- Use an Oxygen Active non-halogen-based treatment sparingly just enough to keep bacteria and dirt to a minimum, you can only use Halogen based chemicals if you have upgraded to a 316 stainless heater
- After each use/ guest stay with Active Oxygen still in water run both the air and hydro systems for a minute or so to ensure the pipes have been rinsed with treated water
- Drain water from tub and then run the systems again for long enough that no more water comes from the nozzles, no longer than 30 seconds
- Clean the fiberglass liner with a general household cleaner like you would use for your bath at home
- Just before your next guests arrive fill the tub and put the correct amount of Active Oxygen shock treatment in for the tub water capacity
- Repeat above steps once guests leave

Please remember, that proper maintenance of a hot tub is essential for your health, as well as to preserve your investment. Sometimes simple improvements in your maintenance routine can make a huge difference, our recommendations are just that, it is up to the customer to ensure that the correct conditions are met for continued use of the hot tub.

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