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www.cedarwoodtubs.co.nz

GAS HEATED HOT TUB INSTRUCTIONS

Introduction

Firstly, thank you for selecting a CEDAR WOOD TUBS LTD hot tub.

Your tub will provide many years of soaking and we are sure it will be immensely enjoyed for years to come.

Please feel free to contact us 24/7 any day of the week for any back-up and support.

Any comments, feedback and photos we welcome thank you.

Warranty Information

The tub has a limited warranty for five years against defects in material and workmanship.

This warranty excludes damage caused by errors in assembly, normal wear and tear and any modifications made to the tub.

Pump and gas heater has a limited warranty of 2 years.

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Section 1: Site preparation and location

Before assembling your tub, prepare a suitable spot for it. Work out the best position for the burner, location of pump (if you have this option), steps for entry/exit and best position for drain hose underneath the tub.

Hot tubs will weigh from 1 to 2.5 tonnes depending on size of tub when full of water so a stable, level and solid foundation is essential.

Concrete pad

A concrete pad forms an excellent base for your tub. Make the size of the pad so that the sides are about as long as the diameter of the tub.

Example: for a tub 1.65m in diameter, pour a 1.7m x 1.7m pad. If your tub comes with a pump and filter, allow a small area around 1m x 1m for this.



Gravel pad

A gravel pad can be a simple and easy foundation for a tub. If the ground on the site is compact and has stable ground underneath, then a layer of scoria stones or crushed rock on top can be used to establish a level foundation for your tub.

However if the soil is unstable or soft underneath, a gravel pad will settle unevenly under the weight of the tub and is not a good choice. If you choose a gravel pad, make it slightly larger than the diameter of the tub.

The thickness can vary depending on how much gravel is needed to level the site.



Paving blocks

Another alternative is to use paving blocks as a foundation. Blocks can be set into the ground to make a solid foundation for the tub. This method involves building a small wooden frame or cribbing to support your tub.

Place some sand and level out with pavers on top.



Wooden deck pad

Another option is to install the tub on a wooden deck pad.

Be sure that your deck is able to support the weight of a full tub which can be 1 to 2.5 tonnes depending on tub size.

If surrounded by a deck, the deck can hide the any plumbing for the pump.

Use screws and not nails when building your deck just in case you need to gain access to your hot tub at a later date.

If placing your tub on top of your deck, the beauty of the tub can be better appreciated.



Tightening the compression bands

The bands have been fully tightened before leaving the workshop but may need re-tightening if the tub has been left unfilled with water for a period of time.

Follow this procedure to tighten the bands:

1/ If you have some lubricant/grease, apply on the threaded rods between the nuts (clamps) before tightening.

2/ Re-tighten each band a little starting with one of the bottom clamp then working your way around the tub.

3/ If wanting to change the position of the clamps, the best way is to screw 4 screws evenly around the tub underneath each band which holds them in position. Loosen off the 2 clamps on each band a little then slide the band around to your desired position. Re-tighten the band a little so that it doesn't fall down, remove the screws then move the band slightly down to cover the holes left by the screws. You may want to re-oil around the bands.

Don't fully tighten one clamp then move on. Tighten a little then move onto the next clamp working your way around the tub several times.

4/ Now do a final tightening but don't over do it. You can tighten to a point where it becomes difficult.

Gas heater

Raypack (Rheem) Spartan 24kW Gas Heater

- Australian made
- Easy to use digital display pad
- Choice of either natural gas or LPG
- Super fast and efficient heating times

Please refer to the user manual and instructions that are included with the gas heater

Technical data sheet:

[96131430 Raypak Pool Heater Operating Instructions – A Type Rev3 – Feb 2011](#)

Instructions for the connection of the pump unit to the hot tub

Please note; all pipe and fittings have NOT been glued together so all need gluing.

The supplied glue sets super fast so important to push all parts in as quickly as possible and making sure everything lines up properly.

Wait 24 hours for the glue to fully dry before filling the tub with water.

Method of installation:

1/ Suction pipe work:

Glue together all parts and pipe like in the photo. Important to make sure that the 2 open ended pipes (facing upward in the photo) are glued so that they line up at the same angle.



2/ Flexible hose connecting jets:

The flexible hose has been purposely cut a little longer so **before gluing** this part, push fittings and hose all together and trim the hose to the correct length to enable the open ended pipes (facing upward in the photo) to fit correctly into the back of the 2 jets.



3/ Screw tightly in the 2 Mac-union fittings onto each of the exposed pipes coming out of the pump and cartridge filter.

There may be an option to have a 50mm or 40mm size-you want the 40mm size so take away the 50mm piece.



4/ Glue into the Mac-unions the 2, 70mm long PVC connector pieces of pipe



5/ Glue a 2 way valve into the 70mm connector PVC pipe piece with the **arrow of the water flow pointing towards the pump.**
Water flows from the skimmer and suction cup **into the pump.**



6/ Glue the other 2-way valve into the 70mm connector PVC pipe piece with the **arrow of the water flow pointing away from the cartridge filter.**
Water flows from the cartridge filter to the 2 jets.



6/ Photo on right shows the valve in the open position which allows water through.



7/ Photo on right shows the valve in the closed position which shuts off the water supply.



Pump unit includes:

- **Pump:** 1hp New Zealand made electric pump. Quiet and powerful.
- **Filter:** New Zealand made 50 sq-ft Pool-quip cartridge filter with pressure gauge
- Pump and filter all plumbed together on a plastic base
- 2 x 2-way shut off valves (when cleaning/changing the cartridge filter)
- 2 year (return to base) warranty

Pump unit instructions

The filter:

- Regularly check and clean the cartridge in the filter. When first using the tub, check and clean the cartridge every week then after a while, check every 2 weeks or so. Keep an eye on the pressure gauge and once it reaches the red zone, its time to clean the cartridge. Don't forget to turn off the water supply but turning the 2, 2-way valves to the off position.
- Clean the cartridge by soaking it in cartridge cleaning solution available from your local pool shop (or use napisan!).
- Also available is a cartridge cleaning 'wand' that connects to your garden hose and this is used to wash out all the muck on the cartridge.

4 different water treatment options available:

1/ Bromine tablets used in a floating dispenser

Bromine tablets into a floating bromine tablet dispenser is all you need for crystal clear water.

Pump needs to be run for 2-4 hours a day (2 hours in the morning and 2 hours in the afternoon).

2kg pack of bromine tablets (lasts a few months): \$97.00

Floating bromine tablet dispenser: \$35.00



2/ Simple Silver water treatment

Chemical free spa water treatment. No other water treatments required.

No harmful chemicals. Easy to use, safe and gentle on skin, hair, eyes and nose.

Pump needs to be run for 8-10 hours a day (pump costs 20 cents an hour to run with no heater on).

12 months supply for ellipse and small tubs:

\$395.00

12 months supply for medium and large tubs:

\$595.00



3/ Auto-Chlor Chlorinator Device

- Salt water treatment
- Natural mineral (magnesium) treatment. Great for bones and arthritis

Description:

- Very cost effective way to treat the water
- Sanitizes the hot tub or spa without the need of additional chemicals
- Low maintenance and easy to use
- Small and easily installed into tight spaces
- Powered by a transformer power supply
- Made in Australia



Price: \$1,150.00

3/ Ozonator

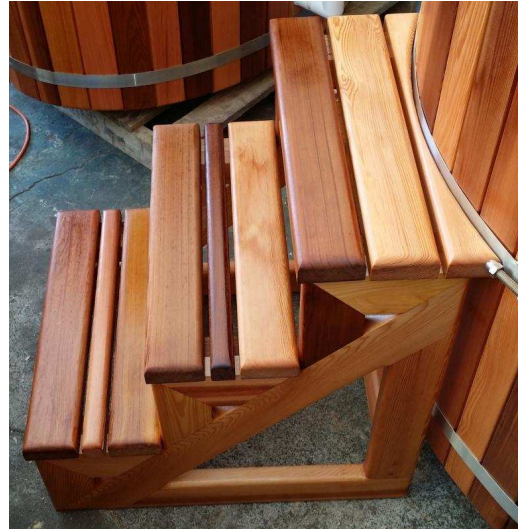
\$750.00

Assembly of the steps (optional extra)

1/ Place the 2 frames in the position as shown in the photo to the right.

2/ Screw in the 3 tread pieces to the frames of the steps. Make sure the tread with the curve is at the top.

3/ Screw in the supporting piece of cedar into the pre-drilled holes on the frames.



Hard lockable heat retention cover

- Made in New Zealand with the highest quality marine grade vinyl
- Supplied with 6 tie downs and keyed locks
- Our covers meet the New Zealand standard for spa pool covers
- Charcoal colour

The vinyl and foam cover is the main insulation for your tub. It should provide years of good service.

Avoid punctures or tears which could allow water to get inside the cover.

If you live in a high wind area, you will need to secure the cover so it doesn't blow off. This can be done by screwing into the hot tub wall the attached hold-down strap clips.

You will find the screws and key to lock the cover attached to one of the straps.

Finishing the exterior of your tub

Your tub has been finished on the outside with 3 coats of BRIWAX natural gloss oil.

Recommended to oil each year to maintain the look.

BRIWAX oil is available from most hardware shops including Bunning's and Mitre 10.



Filling your hot tub for the first time

You are now ready to fill your tub with water for the first time.

A new tub is like a new wooden boat.

It will leak until the wood swells and the tub becomes tight.

Be prepared for a few leaks-this is perfectly normal for the tub to leak like a sieve initially so don't be alarmed!

The leaks will slow and stop as the wood swells.

Be sure that the area around the tub drains well.

Begin filling the tub.

Don't try to tighten the compression bands or hit the staves with the mallet when the tub is full of water.

Warm water accelerates the swelling of wood.

If the tub is holding water well then you can heat up the tub.

The swelling process continues for at least a few weeks.

It is normal for a wood tub to drip a small amount of water.

Included with your tub is a bag of fine cedar sawdust.

Try to wait for at least 1 week before using the 'sawdust method'.

If there is a certain area where water is dripping out fast, grab a hand-full of sawdust in your hand and add a small amount of water to make a peanut butter like paste then rub up and down along the groove on the inside of the tub.

If the tub is leaking generally all around, then sprinkle 2-3 cups in over the entire area.

As the water is added, the sawdust will naturally be drawn to places where the water is seeping out and accelerate the swelling and sealing of the tub.

The sawdust is harmless and the excess will be flushed out the first time you drain and rinse the tub.

Refill the tub.

Important: if your tub comes with a pump and filter unit, remove the filter from the filter cartridge during this procedure, otherwise it will clog up.

The natural oils and tannins in cedar (especially red cedar) will cause the water to turn tea-coloured when the tub is new.

This is normal and harmless.

The sweet aroma of cedar is due to these oils.

You may want to change the water frequently at first to help clarify the water.

This effect will diminish with time, possibly after 5-10 refills.

Tub Safety

Please note the following general safety points:

1. Tub safety is your responsibility.
2. Never allow unsupervised children to use your tub.
Be sure that a responsible adult is in control at all times.
IT IS YOUR RESPONSIBILITY TO PREVENT ACCIDENTAL DROWNING.
3. Hot tubs are for sitting only. Do not allow diving or horseplay.
4. Children should use the tub at lower temperatures than adults.
Consult your physician for advice on hot tubbing for children, pregnant women, people with heart conditions, or you have other specific questions concerning health and safety.
5. Consult your physician about his recommendations regarding your ability to soak and at what temperature.
Never soak in water warmer than 42 degrees.
6. To avoid risk of accidental drowning, never allow hot tubbing alone.
7. Do not use excessive amounts of alcohol while hot tubbing.
8. It is important to keep the water in your tub clean by changing the water, cleaning the tub, or using disinfecting and sanitizing chemicals.
Skin irritation is a sign of bacteria in the water.
If you need to add a filter and water conditioning system, we can supply the equipment you need.
Contact us for more info or visit our website www.cedarwoodtubs.co.nz.

Tub maintenance

Your tub should last for many years and require little maintenance. Here are a few recommendations:

1. Keep the tub filled whenever possible.
2. Remember that a wooden tub is a dynamic object and the wood will swell and shrink with exposure to water or lack of it.
3. Like a wooden boat, it will seep water at first, then swell shut.

NEVER tighten the bands when the tub is full of water!

Freezing: Never let the tub freeze solid when full of water!!!!

Since water expands when frozen, this will put enormous strain on the bottom, sides, hardware and heating system.

If you are going to be away during freezing weather, or you want to shut your tub down when away for long periods, follow these steps:

1. Drain the tub leaving about 3 inches in the bottom. This amount of water will not cause freeze damage and will keep the floor seam tight.
2. Drain all parts of the heating system. This includes pump, filter, heater and pipes.
3. If practical, disconnect and store the pump in a warm dry place.

Preserving the beauty of cedar: You can prolong the beautiful colour of the tub by treating the outside only with natural teak oil, a product that is available from Bunnings or Mitre 10 for example.

Apply when the tub is dry with a brush or roller and allow to soak in.

Do this annually to maintain the beauty of the cedar.

Take care not to get any inside the tub.

If your tub develops a significant leak. Follow these steps in order:

If the first one doesn't work go on to the second and so on.

1. If your tub develops a leak (not just a drip) that it didn't have before, something has changed. Do some investigation to discover the cause.

The most common causes are the tub drying out after being empty for a period of time, or the support for the tub has settled causing the tub to have an uneven base.

2. If the tub has dried out from being left empty, check the compression bands for tightness.

If the wood has dried enough to show signs of shrinkage, it is a good idea to take up the slack with the tightening bolts.

3. Check the floor of the tub with a level and inspect the foundation and chine joists under the tub. If the foundation is uneven, the tub will need to be drained and moved, and the foundation problem fixed.

4. **Wood sawdust** is one of the simplest and most effective ways to stop leaks.

This is a technique borrowed from wooden boat builders.

The wood dust will find its way into the leak because of the water movement, and help to stop the leak.

Water sanitation instructions

It is important to keep the water clean.

Failure to do so can cause growth of bacteria and possible skin irritation.

Some people prefer not to use chemicals and simply change the water frequently cleaning the tub between heavy uses.

As you care for your hot tub, keep in mind that a hot tub is not merely a small pool. It is important to properly sanitize your tub.

Other important water sanitation information:

Never heat your tub water above 42 degrees - higher temperatures can cause health problems.

Shower before using the tub to prolong the life of the water, especially if your tub comes with no pump and filter.

Always read the label instructions prior to using a product and use only as directed.

Never add chemicals when people are in the tub.

Store chemicals in a cool dry location out of direct sunlight.

We recommend that you change tub water every 3-4 months (tub with a pump and filter unit) but of course varies depending on usage.

Water sanitation supplies are available on our website www.cedarwoodtubs.co.nz or call us on **(09) 44 44 910**.