



Harmony Barrel Sauna Assembly Instructions



Requirements:

- 2 People (recommended)
- $\frac{3}{4}$ " (19mm) Wrench/Nut Driver Bit
- Rubber Mallet
- Carpenter's Hammer
- Carpenter's Level
- Carpenter's Square
- Cordless Drill (we supply the bit)
- Phillips & Robertson Screwdrivers
- 2" (51mm) hole saw
- Step Ladder

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[View the assembly process](#)



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Parts List

Part #	Description	Quantity
601001	79" Standard Sauna Staves	46
601002	79" Top Stave (Concave on both sides)	1
601003	79" Bottom Stave (Convex on both sides)	1
602001	48" Barrel Cradles	2
603001	Half Moon Wall Sections with Bench Mount Brackets	4
603002	Front Middle Wall Section	1
603003	Back Middle Wall Section	1
604105	71" Pre Assembled Bench (1"x6")	2
604106	29-1/2" x 71" Flat Floor	1
604100	Bench Support Brackets (Corner)	4
BANDS80	2 Meter Barrel Sauna Bands	3
BOLT15	15" Barrel Sauna Bolt with 2 Nuts	3
603020	Outside Sauna Door Handle (Small) - White Cedar	1
603021	Inside Sauna Door Handle (Large) - White Cedar	1
603022	Single Towel Hook - White Cedar	1
VENT1	Sauna Vent (Includes 2 Grills and Inside Slider)	1
BAHARDWARE	Barrel Sauna Hardware Package	1
CT22MANUAL	CT Harmony Owners Manual	1
603004	2 Meter Sauna Door with Frame & Hinges	1

Optional Roof Kit

602010	Trim Kit for Barrel Saunas (9pcs for 1 Side)
602011	Trim Kit for Barrel Saunas (18pcs for 2 Sides)
ARBK240	Black Asphalt Shingle Roof - 8' (244cm)

Optional Heater

Electric Heater
Wood Heater

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Warranty

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Sauna Base Preparation

Make sure the base for your sauna is level with a slight slope to the back for drainage.

A solid base for your sauna is recommended and can be made from any of the following.



Concrete Pad



Wood Deck



Crushed Stone



Patio Stone/Paver Blocks

It is recommended to build a base larger than required to provide a sitting area for cooling off during your sauna session.

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Barrel Assembly



Place the 2 cradles onto the sauna base.



Locate bottom stave (convex on either side).

The long part before the groove will face the front.



Center the stave onto the cradle and measure 12" (30cm) from the end of the stave to the edge of the cradle.



Secure the stave with a 2 ½" (76mm) screw.

Ensure that the stave is square and add 3 more 3" (64mm) screws into each corner of the cradle.

**Always ensure that you have the correct screw length so that there will be enough thread to hold, and especially, so that the screw does not go all the way through the material and come out the other side.*

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Barrel Assembly



Repeat this process for the front of the Sauna.



Place 3 staves on either side of the bottom stave and align the grooves.



Place 2- 2 ½" (64mm) screws into the 3rd stave on either side lining up with the cradle underneath.

Do not go all the way through the stave at this point.

(This will help align where cradles are in future steps)

Repeat at opposite end.



Grab the door and place it in the grooves on the front wall.

Ensure the logo is to the bottom and facing inwards.

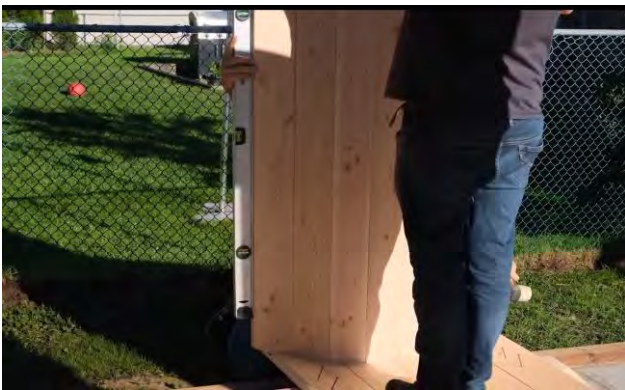
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Barrel Assembly



Using a level and rubber mallet, tap the door until it is centered and level.



Repeat the process for the back wall panel.



Ensure the tongue and grooves are opposite each other from the front and back panels.



Use the top stave (concave on either side) to go from the front wall to the back wall to help stabilize the sauna.

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Harmony Barrel Sauna Assembly Instructions

Barrel Assembly



Install one of the rear wall half moon panels.

Ensure the bench support is facing inwards.



Please note:

Panels may be not be exact size to middle wall.



Center the half moon panels vertically on the middle wall and secure in place.



Secure the half wall panel to the middle Panel using 2 ½" (64mm) screws in the pre drilled holes at the top and bottom.

Repeat the process with the other rear wall half moon panel.

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Harmony Barrel Sauna Assembly Instructions

Barrel Assembly



Repeat the process for the front half moon panels.

Ensure the bench supports are facing inwards.



Continue adding staves on either side of the sauna a few at a time, alternating sides.

Use the rubber mallet to finesse into place.



Secure every 2nd stave on the bottom of the sauna with the provided nails to hold staves in place.
(If required)

Once past the middle point of sauna, nails should no longer be needed.



When installing the staves, tap tightly together while leaving as much of a gap as possible between stave and wall using the pencil line as a guide as in picture.

** This will make the tightening of the bands easier.*

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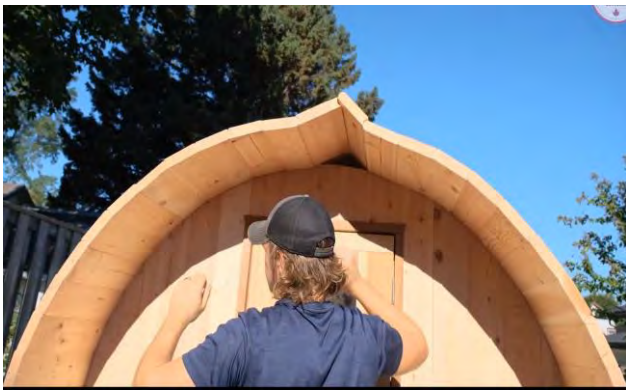
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Barrel Assembly



At this point, Remove the top stave and put it aside while continuing to add staves on both sides to the top.



Use the top stave to wedge with the last stave to create a "V" shape.

- *If it doesn't create a "V" shape or there is a gap, you will need to add one of the spacer boards to the top stave.*
- *In rare instances, your sauna staves will be too tight not allowing the staves to settle into the correct position and you will need to make the top stave narrower.*

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Harmony Barrel Sauna Assembly Instructions

Adding a Spacer to Top Stave (if required)



In your sauna package you will find a spacer stave that is square on both sides that is only required if there happens to be a “gap” after installing all the staves like in the picture on the left.



To add the spacer, start by removing all of the screws from the top stave.



With the top stave in 2 pieces secure the spacer stave to the half of the top stave without the screws with 2” (51mm) screws.



Now screw the other side of the top stave back to the other half top stave and it should now make a “V” shape when wedged with the last stave on the sauna.

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Harmony Barrel Sauna Assembly Instructions

Making the Top Stave Narrower (if required)



In rare instances, your sauna staves will be too tight not allowing the staves to settle into the correct position. (as in picture to the left)

This doesn't happen often, and the sauna staves and bands are always better being as tight as possible.



To make the top stave narrower, start by removing all of the screws from the top stave.



Once top stave is apart, Measure from flat edge 3/4 " (2cm) on each piece and safely cut to make staves thinner.



Now screw the 2 cut pieces of the top stave back together.

Reinstall the top stave and it should now make a "V" shape when wedged with the last stave on the sauna.

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Barrel Assembly



Pre-assemble the 2 bands and thread the nut on just enough to hold it together.



Place one band over the front of the sauna.

Repeat the process and place the second band over the back of the sauna.



Ensure the front band is 2" (51mm) from the edge of the sauna all the way around.

Repeat for the back band.



Feed the center band over and under the sauna and secure it with a rod and nut.

Ensure all fasteners are the same height.

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Harmony Barrel Sauna Assembly Instructions

Barrel Assembly



Lightly snug up the front and back fasteners.



Tap out all the staves to even them out.



Tighten fasteners on the front and back bands while a helper continues to tap on the staves.



Ensure the middle band is centered and tighten,
Give all fasteners a final tightening.

** Don't worry about making them too tight, you cannot overtighten!*

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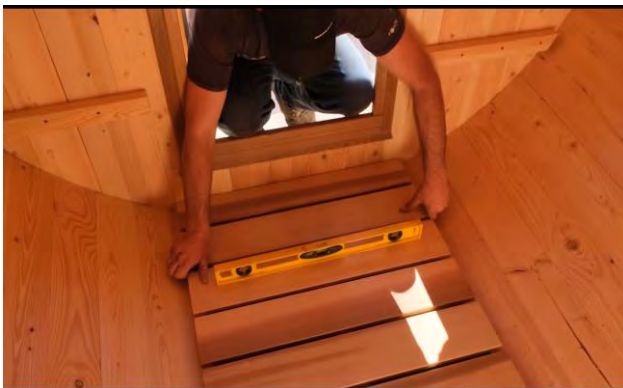
Harmony Barrel Sauna Assembly Instructions

Bench Installation

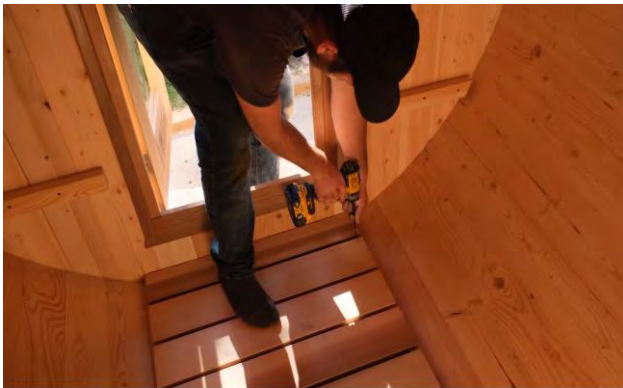


Place the flat floor piece inside the sauna towards the back wall.

Center it in the middle of the sauna.



Ensure the floor pieces is level.



Once level, Secure the floor with 1 ½" (38mm) screws in the 4 corners and 2 in the middle of the flat floor screwing between the floor boards so the screws are not as visible.



Bring in the benches and place on bench brackets.

Ensure they are tight against the walls.

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Harmony Barrel Sauna Assembly Instructions

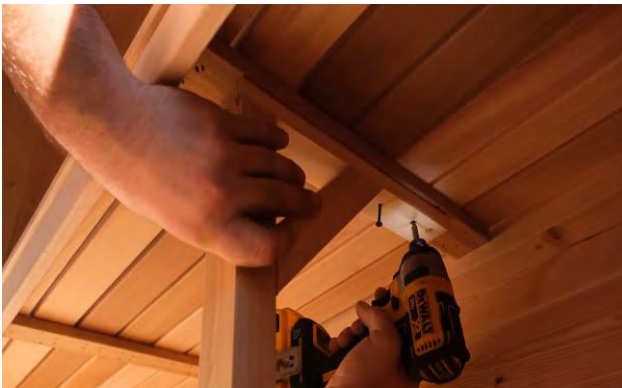
Bench Installation



Secure the benches to the bench brackets with 1 ½" (38mm) screws in each of the corners of the bench screwing between the bench slats so the screws are not as visible.



Place 2 - 1 ½" (38mm) screws into the pre-drilled holes on each bench bracket.



Line the bracket up with the support on the bottom of the bench and secure it with the pre-placed screws.



Square up the bench support and use a 1 ½" (38mm) screw in the pre-drilled hole to secure it to the sauna floor.

Repeat this process for the remaining bench supports.

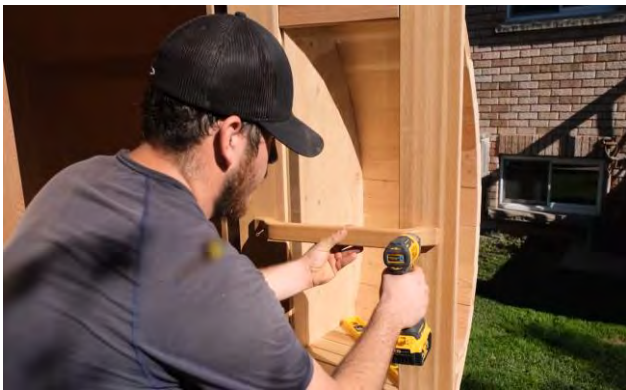
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Harmony Barrel Sauna Assembly Instructions

Door Handles & Accessories Installation



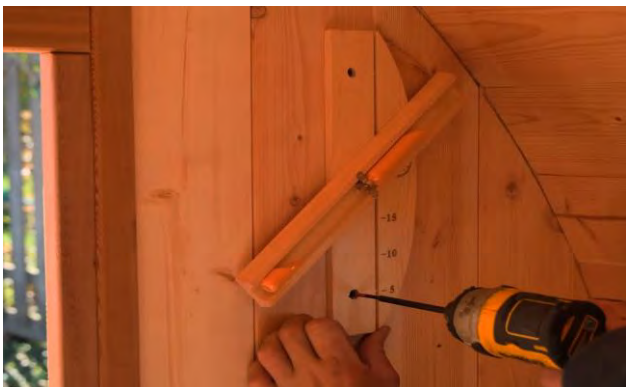
Install the outer door handle (small) at the desired height using 2 - 3" (76mm) screws in the pre-drilled holes.



Install the inner door handle (large) horizontally at the desired height. Ensure the handle is level and secure using 2 - 3" (76mm) screws in the pre-drilled holes.



Place the towel hook at desired location and secure with 4- 1 ½" (38mm) screws.



Install the optional sand timer using 2 - 1 ½" (38mm) screws.

Ensure it can rotate without hitting the wall.

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Harmony Barrel Sauna Assembly Instructions

Electric Heater Installation (Optional)



Measure the width of the stove mounting holes.



Measure the height of the mounting holes and add 6".
(152mm)



Transfer the measurements to the back wall of sauna.

Ensure the heater will be centered between the benches.



Install the two $\frac{1}{4}$ " x $1\frac{1}{2}$ " (6mm x 38mm) hex head lag screws (supplied with the heater) into the holes.

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Harmony Barrel Sauna Assembly Instructions

Electric Heater Installation (Optional)



Hang the heater on the 2 screws and tighten to secure stove in position.



Locate the pieces for your heater guard.

Stand the 2 Assembled side pieces of the heater guard on edge with pre-drilled holes on the bottom.



Screw heater guard support to either side using (2) – 1 ½" (38mm) screws per side.

Repeat for the bottom heater guard support.



Place 2- 2 ½" (64mm) screws into the pre-drilled holes on either side of heater guard to prepare for mounting.

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Harmony Barrel Sauna Assembly Instructions

Electric Heater Installation (Optional)



Center the guard around the heater and secure to wall with the pre placed screws.



Ensure the guard is level and secure the other side.



Wash the layer of rock dust off of the sauna rocks before using them.

When your sauna is set up and working you should “break-in” the sauna before using it for the first time by turning on the heater to its highest setting and operate it for about 1 hour.

This is recommended to burn off any oils impurities from manufacturing, and it also “cures” the woodwork.

- *All wiring should be installed according to the heater manufacturers instructions and by a licensed electrician.*

- **Do NOT use a G.F.I breaker**

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Harmony Barrel Sauna Assembly Instructions

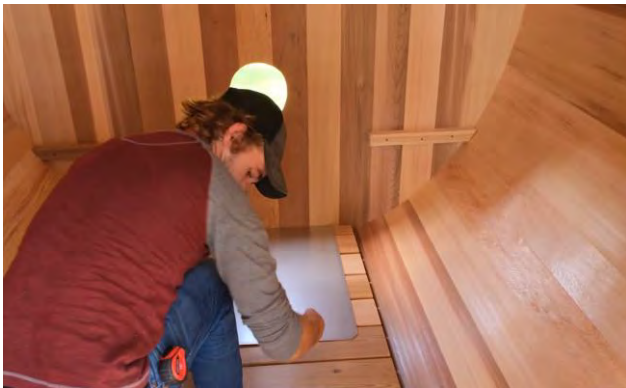
Harvia M3 Wood Stove Installation (Chimney out the top) (Optional)



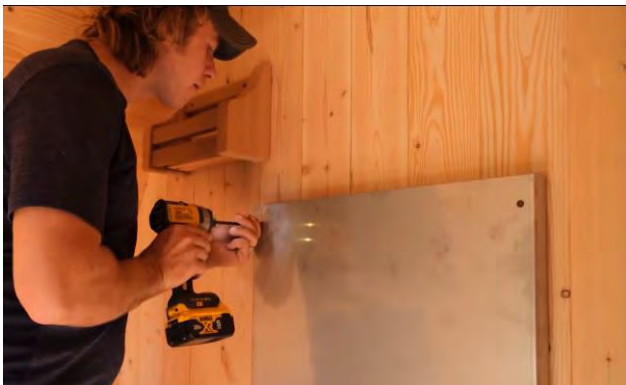
Remove all protective film from stainless steel parts and the plastic wrap from stove pipe pieces before installation.



Fasten the stove handle onto the stove door With the screws provided.



Install floor heat shield against back wall centered between the benches.



Place the rear wall heat shield and secure with 6 - 1 ½" (38mm) screws through the drilled holes.

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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the top) (Optional)

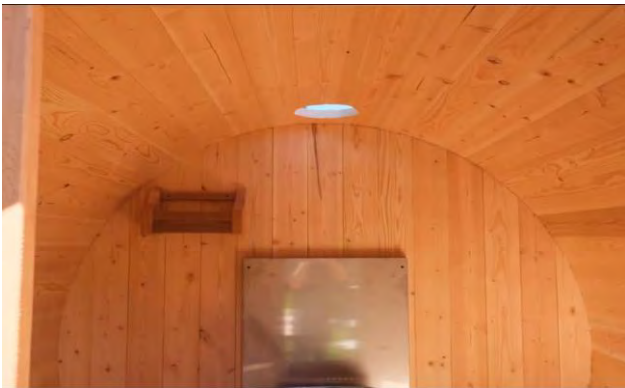


Bring in the stove and ensure it is centered between the benches with the chimney hole 8" (203mm) from the rear heat shield.



On the top of the sauna, measure 12" (305mm) from the end of staves.

From the mark, make an 8" (203mm) circle.



Cut the circle out with a jigsaw.



Place the long chimney piece onto the stove.

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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the top) (Optional)



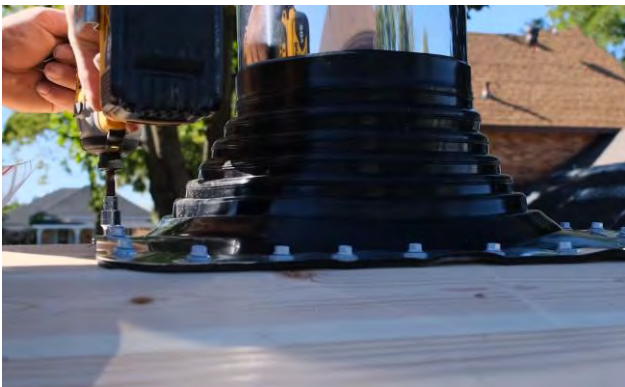
Place the first thick insulated chimney pipe on top of the first pipe and put it through the hole in the roof.



On the top of the sauna, pull the boot over the pipe, mark the outline of the boot.



Lift the boot out of the way and apply the included roof sealer on the inside of the outline.



Pull the boot back down and secure with the included self sealing roofing screws 2-3" (51mm to (76mm)) apart.

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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the top) (Optional)



Place the hose clamp over the boot and tighten the screw.



Place the 2nd insulated chimney piece over the first.



Attach the support strap around the 2 chimney pipes and tighten up.



Insert the short chimney piece into the thick chimney piece, followed by the cap piece.

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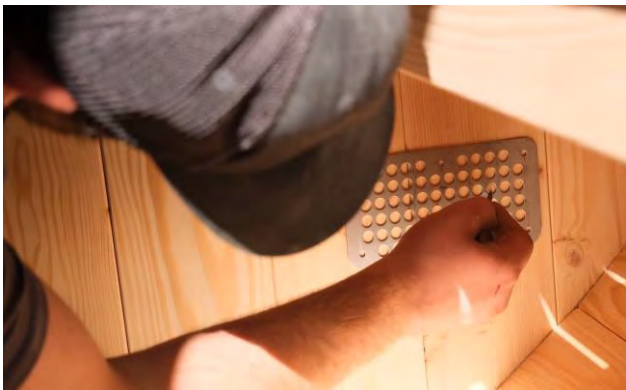
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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the top) (Optional)



Install the 2 halves of the thin metal sheeting around the chimney on the inside to cover the hole.

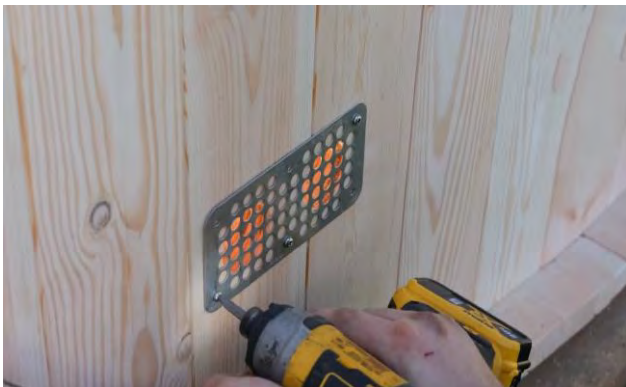


Below the bench support on the back wall, mark the vent hole position.



Drill out with a 2" (51mm) hole saw.

Only go half way through to prevent splintering and drill the remainder from the other side of wall.



Using 1 ½" (38mm) screws, screw on the vent cover.

(note that the vent guard only goes on the outside.)

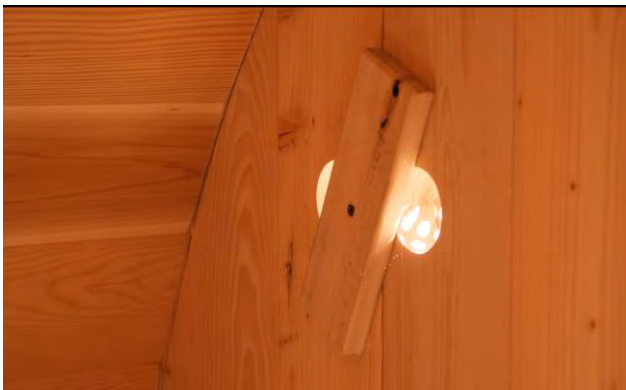
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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the top) (Optional)



High on the front wall, repeat this process and mount the vent cover on the outside of the sauna.



Use a 1 ½" (38mm) screw and attach the vent board on the inside of the sauna making sure it is tight but can still be turned.



The assembly of your Harvia M3 wood stove with chimney out the top is now complete.

Enjoy your sauna!

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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the back wall) (Optional)



Remove all protective film from stainless steel parts and the plastic wrap from stove pipe pieces before installation.



Fasten the stove handle onto the stove door With the screws provided.



Remove the screw on the back of stove and remove the back flap.



Measure the height to the middle of the opening on the back of stove. (22") (56mm)

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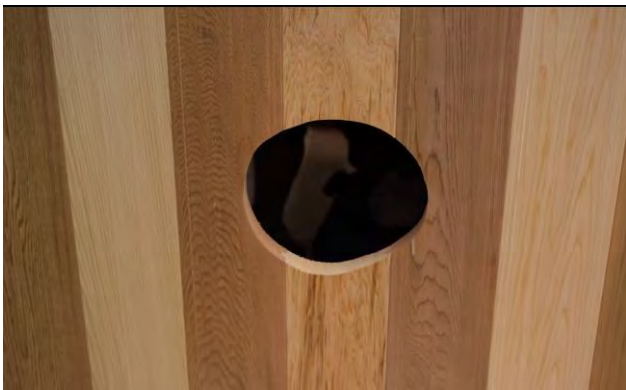
Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the back wall) (Optional)



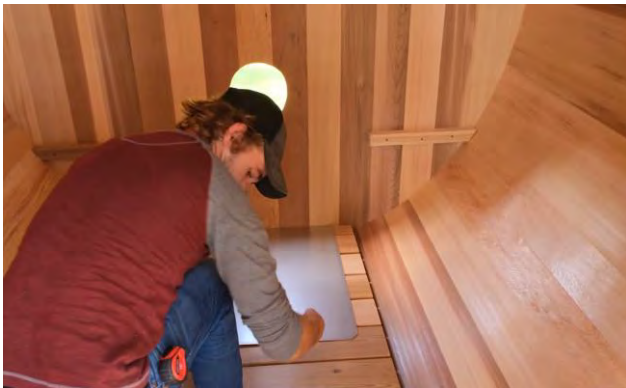
On the center of the back wall, measure 22" (56mm) from the floor up.

This will be the center of your hole for the chimney to go out.

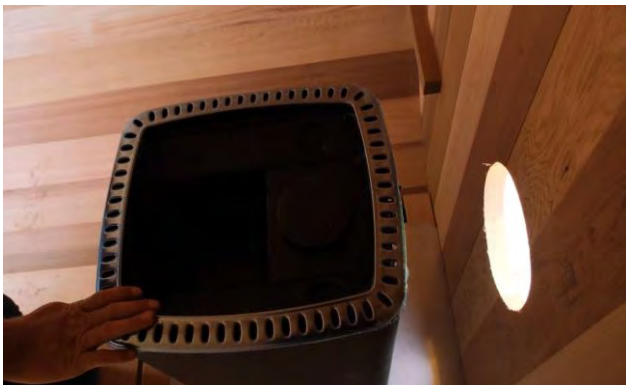


From the mark, make an 8" (203mm) circle.

Cut out the circle with a jigsaw.



Install floor heat shield against back wall centered between the benches.



Bring in stove and place it on the floor heat shield.

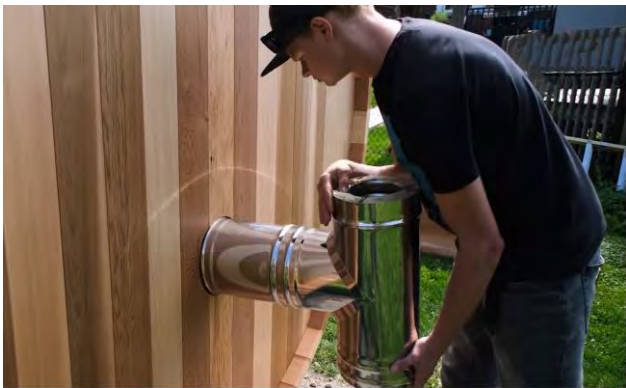
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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the back wall) (Optional)



Bring in the rear wall heat shield and place it behind the stove.



Insert the "T" chimney piece through hole in back of sauna and through the rear wall heat shield on the inside of sauna and into the back of stove.



Ensure the rear wall heat shield is level and secure with 6 - 1 ½" (38mm) screws through the drilled holes.



Remove the nuts and bolts from the chimney support.

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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the back wall) (Optional)



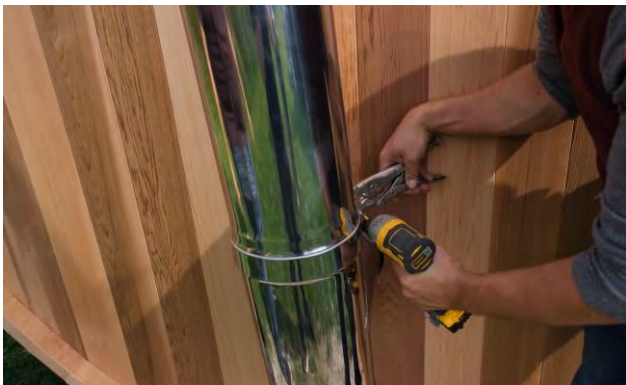
Assemble together the remaining chimney pieces.



Attach the support strap around the 2 chimney pipes and tighten up.



Attached assemble chimney pieces to the "T" coming out the back of the sauna.



Attach a support strap around the connection and tighten up.

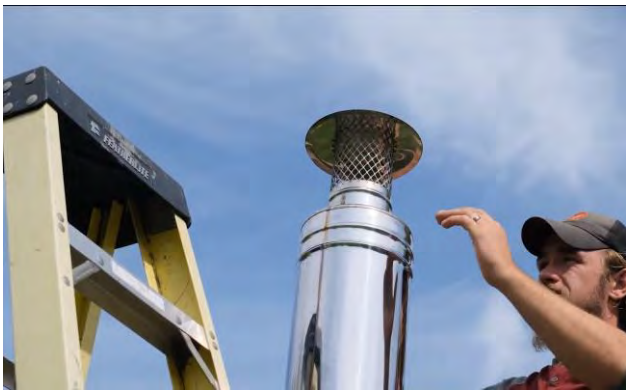
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Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the back wall) (Optional)



Reassemble the top chimney support bracket.



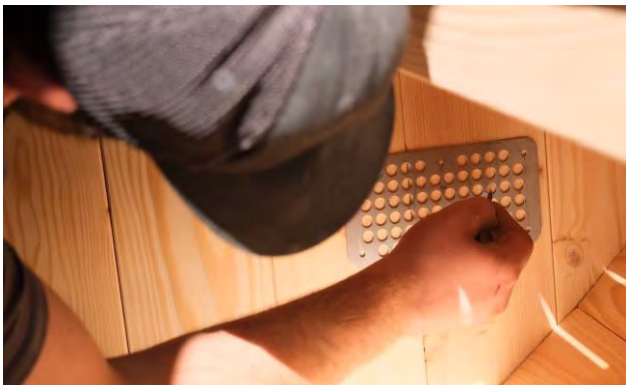
Install the cap on the top of the assembled chimney.



Install the bottom half of the exterior chimney shield.

Ensure that it is level.

Overlap the top half of the exterior chimney shield and secure with provided screws.



Below the bench support on the back wall, mark the vent hole position.

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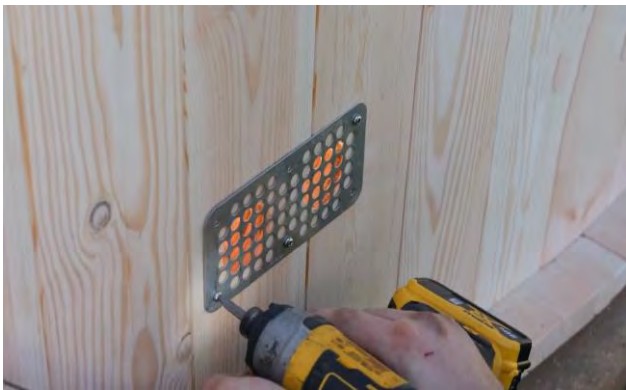
Harmony Barrel Sauna Assembly Instructions

Harvia M3 Wood Stove Installation (Chimney out the back wall) (Optional)



Drill out with a 2" (51mm) hole saw.

Only go half way through to prevent splintering and drill the remainder from the other side of wall.

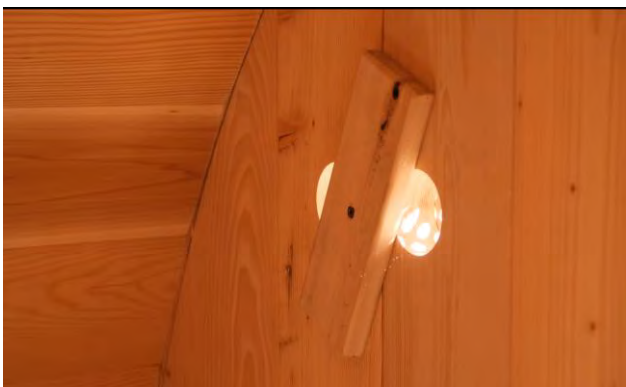


Using 1 ½" (38mm) screws, screw on the vent cover.

(note that the vent guard only goes on the outside.)



High on the front wall, repeat this process and mount the vent cover on the outside of the sauna.



Use a 1 ½" (38mm) screw and attach the vent board on the inside of the sauna making sure it is tight but can still be turned.

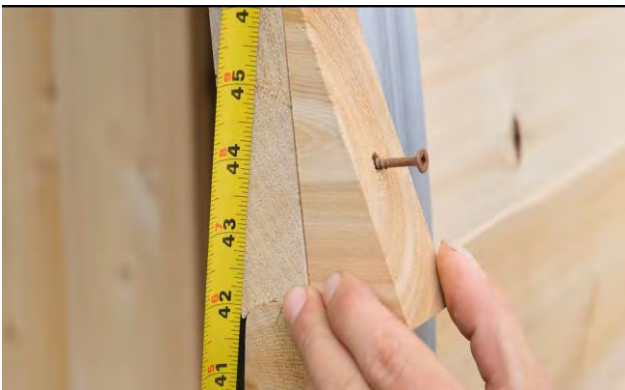
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Harmony Barrel Sauna Assembly Instructions

Asphalt Shingle Roof Installation (Optional)



Pre place 2" (51mm) screws into the triangle support pieces.



Install the first triangle support piece halfway up the sauna. (42" (107cm) from the base of the sauna)



Install another triangle support in the middle of the sauna and one centered between the 2.



Install a support at 42" (107cm) high at the other end of the sauna.

Install another one in the middle of the sauna and 1 more centered between these 2.

This will make 6 supports across the sauna.

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Harmony Barrel Sauna Assembly Instructions

Asphalt Shingle Roof Installation (Optional)



Place the ice and water support boards flush to the bottom of the triangle supports and secure with 2 - 1 ½" (38mm) screw in each of the triangle supports.



Add the second ice & water support board to the other half of the sauna and secure to the triangle supports in the same manner.

Repeat for the opposite side of the sauna.



Peel the film off the back of the ice & water shield.



Place it flush to the bottom of the support boards and secure it with roofing nails on the ends.

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Harmony Barrel Sauna Assembly Instructions

Asphalt Shingle Roof Installation (Optional)



Continue with the next strip of ice & water shield.

Ensure to overlap it on top of the smooth portion of the previous strip.



Tack it down with roofing nails.



Continue this process until all the ice & water shield strips are placed.



Cut off the excess ice & water shield from each end.

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Harmony Barrel Sauna Assembly Instructions

Asphalt Shingle Roof Installation (Optional)



Install the trim pieces on the front of the sauna using 1 ½" (38mm) screws.



The center trim piece may have to be cut to make it fit.



Begin placing the shingles on the roof and secure with roofing nails.



Continue adding shingles along this row to the back of the sauna.

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Harmony Barrel Sauna Assembly Instructions

Asphalt Shingle Roof Installation (Optional)



When you get to the back of the sauna, cut off the excess shingle to use to start the next row.



Use the cut piece from the first row to start the next row of shingles.



Continue this row to the end of the sauna and again cut off the excess shingle to start the next row.

Be sure not to hit the aluminum bands with the roofing nails when securing the shingles.



Continue adding shingles in the same manner to the back of the sauna,.

When you get to the 4th row, start the row with a full shingle.

Continue this pattern until you get to the top center of the sauna.

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Harmony Barrel Sauna Assembly Instructions

Asphalt Shingle Roof Installation (Optional)



Once you get to the center at the top of the sauna, start the process on the other side working your way up to the top again.



When you get to the last row on this side, secure the top row with roofing nails in the top and middle of the shingle.



Install the trim pieces to the back of the sauna in the same manner as the front securing with 1 ½" (38mm) screws.

Again, the center trim piece may have to be cut to fit.



Your Asphalt roof is now complete!

Enjoy!

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Harmony Barrel Sauna Assembly Instructions

Adding a Spacer to Top Stave (if required)



In your sauna package you will find a spacer stave that is square on both sides that is only required if there happens to be a “gap” after installing all of the staves like in the picture on the left.



To add the spacer, start by removing all of the screws from the top stave.



With the top stave in 2 pieces secure the spacer stave to the half of the top stave without the screws with 2” (51mm) screws.



Now screw the other side of the top stave back to the other half top stave and it should now make a “V” shape when wedged with the last stave on the sauna.

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Harmony Barrel Sauna Assembly Instructions

Care & Maintenance

Interior

It is recommended to vacuum or sweep out the inside of your sauna frequently to remove dirt and other debris.

Under normal conditions, a slight wash of the floor and benches with warm soapy water several times a year will maintain its cleanliness. You can use a sheet of fine grit sandpaper or a low pressure wash to remove more stubborn stains or for a deeper cleaning of the interior of your sauna.

Never use ammonia or harsh cleaners as they can turn the wood gray.

Exterior

Depending on the humidity and weather conditions in your area, the cedar will either shrink or expand based on the amount of moisture absorption. The desired effect is to have the cedar expand into the bands therefore making the sauna staves much tighter.

It is recommended to tighten the bands after a period of time, usually within the first few months

Over time the lumber will weather naturally as a result of sun and rain, it will change into a weathered grey colour. This natural weathering will not harm the wood or impair the sauna's performance.

If you wish to retain the natural color of your Dundalk Leisurecraft Sauna, there are many cedar stains on the market and almost as many opinions as to which is best.

We encourage you to rely on your own research and referrals.

Never treat the interior of the Sauna, and never apply paint or varnish to the exterior.

Water Seepage

Some minor water seeping into the sauna is expected and normal for an outdoor sauna.

If your sauna is properly installed, you should not have water dripping in but you should expect some water seepage, especially on the top and sides of the sauna.

This is due to the porous characteristics of the wood and to the ball-and-socket profile design of the staves.

Water Seepage will not harm the sauna. The moisture will evaporate once you turn on the heater and the sauna heats up.

If the water marks are bothersome, they can be easily removed with a light sanding (80 or 100 grit)

To minimize seepage, select a location for your sauna that is under cover, or choose one of our roofing options.

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Harmony Barrel Sauna Assembly Instructions

Warranty

Canadian Timber Collection Saunas warrants our saunas against defects in materials and workmanship under normal/residential use for a period of three (3) years, as applicable, from the date of receipt of the product by the original end-user consumer. This warranty does not apply to normal wear and tear and/or natural weather conditions. This warranty does not cover regular required maintenance of the sauna, (eg. Tightening bands on the barrels, cleaning or staining the sauna) refer to your sauna assembly manual for maintenance guidelines. This warranty does not cover misuse or negligence and the manufacturer and associated retailers are not liable for any injury or damage caused by the product. This warranty is a parts only warranty and any service or labor costs would not be considered as part of the 3 year warranty.

Purchaser Name: _____ Date: _____

Purchased From: _____

Manufactured by:



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