



The Leaders in
Decorating Power Tools

SS75US3 Steam Generator

Ideal for bending wood



Bring your new ideas to life and create new furniture designs and woodworking projects with bended wood. Use your SS75US3 for all your wood bending projects such as bending arms and backs for Windsor chairs as well as many bent components for wooden boats.

This compact electric steamer runs on a standard 1500 watt, 120v current, which is much safer than many other low-cost homemade steam generators with open burners. The Steam Generator has a small 8" x 12" base which allows for easy use in your home or shop.

The 1.3 gallon tank takes only 23 minutes to steam up and will provide 137 minutes of steaming time which generates plenty of steam for a small to medium size homemade steam box.

The Steam Generator provides many safety features including a 12' cool to touch hose, thermal protectors as well as an automatic suck back valve.

Technical Specs

- 1500 watt element – 120 volt
- 137 minutes usage time
- Exterior water level indicator
- 23 minutes steam up time
- 12 ft. Super Cool running hose
- 6.5 ft. power cord
- 1.3 gallon tank
- Safety Features
- Thermal Protectors x 2
- Cool to touch hose
- Automatic suck back valve



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How to Build a Steam Box

Bending wood with steam can be dangerous and should only be performed by experienced woodworking enthusiasts. Thick, heat resistant gloves are recommended as the steam can easily burn unprotected skin on contact. Also keep your face clear from any areas where steam may escape and burn you.

Steam bending is a very effective method to wood bending. Most hardwoods will bend better than softwoods.

Steam boxes can be built using PVC, plywood or hardwood; just make sure that it can stand up to moisture and heat. Your steam box should be tight, but not too tight. The steam should be able to surround your wood piece and flow through the steam box. The steam box could build up pressure and explode if the steam does not adequately flow through the steam box.

The best way is to build a relatively tight box and drill steam holes so that the steam can escape and not explode. You should have a steady stream of steam escaping through all vents. You will need to make sure that your wood pieces are supported in your steam box and that the steam surrounds your wood on all sides. Dowel rods work the best as metal rods can heat up and burn your wood as well as yourself.

For using a wooded steam box, you can use common 1 x 6 material or $\frac{3}{4}$ " plywood. A 5" x 5" interior dimension with a 3'-5' length will be able to use with your Steam Generator. You should have a door opening with hinges and a latch. A rubber weather stripping can be used to seal a leaky door.

To use a PVC steam box use schedule 40 PVC cut to the appropriate length and size. The ends are closed with regular PVC slip caps. We advise to not glue the caps on so that they will pop off in the event there is too much pressure and also as a door for inserting and removing your wood pieces.

You will need an access hole in the steam box for the hose. The hose can be sized and drilled for a friction fit or you can use a plumbing fitting (for hot water).

The steam box should be on a slight incline for condensation to drain to one end.

Insert a meat thermometer through a small hole to read the temperature. You want to reach 212 degrees F, or as close as possible.

A general rule to follow is that you should steam the wood for 1 hour per every inch thickness of the wood.

You will need a mould or jig to hold the wood in place until it dries out after you remove from the steam box.

This is a general outline on building a steam box.

There are many websites available to use for more detailed instructions.



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