DIY High Performance Desktop Dry Herb Vaporizer

V1.01



WARNING – FIRE HAZARD

This instruction uses a hot air rework station, which produces EXTREMELY HIGH TEMPERATURES which can ignite flammable substances such as wood, paper, napkins, carpet, cloth, etc. and burn skin and cause 3rd or 4th degree burns if handled improperly. Read the instruction manual inside the box of your hot air station before using it, and take the safety tips provided in this document seriously. The author does not take any responsibility for misuse of such devices in any way.

DISCLAIMER: This document is written for research purposes only and does not encourage the use of any illegal substances.

BUY LIST

1. Quick 957DW+ or 857DW+ or 857D or 706W+ Hot Air Rework Stations, these come in 110V OR 220V versions, choose according to your country (US: 110V , EU: 220V)
   Links:
   - 957DW+: 220V Aliexpress $101.31 ~~$129.88~~
   - 857DW+: 110V Amazon $139.60, All Versions Sunshine $83.00 ~~$102.99~~
   - 857D: 220V Aliexpress $84 ~~$105~~
   - 706W+: 110V Amazon $149.00, 220V Alibaba $71.39, All Versions Sunshine $87.50 ~~$111.00~~
2. Turkey Size Oven Bags (Amazon Link $2.66 for 2 Pieces)
3. Hollow Unfinished Natural Hardwood Dowel Rods - Hole 8mm (Amazon Link (Get the “Size: 5/10/15/20cm” Option $17.69))
4. M6 x 8mm Outer Diameter x 7mm Length Stainless Steel Bushing or Spacer (Amazon Link $27.81 for 8 pieces)
5. Crystal Clear Tape (Both Packaging (Optional) and Office size)
6. Unbleached Clean Paper
7. 7mm (Optional) and 8mm Drill Bit
8. Bow Saw
9. Sand Paper
10. Screwdrivers

Step 0 – Preparing the hot air station:

Make sure the hot air station is unplugged and the power switch is set to off (0). Attach the hot air handle stand provided in the box to the main unit using the screws provided and a screwdriver.



Attach your 8mm air nozzle (Biggest nozzle in the 706W+ and 957DW+ and second biggest one in the 857 series) provided in the box to the handle and secure it with a screwdriver (Do not over tighten the screw or you might deform the device).



Put the hot air station on a secure table and put the handle on the stand.

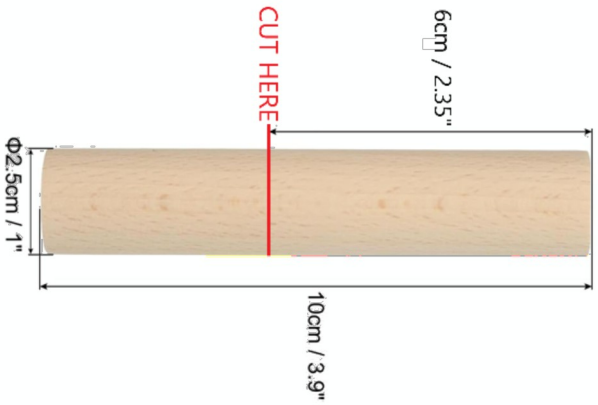


Plug the hot air station to the wall, set the temperature to maximum (450°Celsius), make sure the handle is secure on the mount, set the power switch to on, set the air on the middle (4.5) and grab and put the handle somewhere safe and steady so nothing may block the airflow, nothing may touch the metal part and it may not move around or fall. For example you can wrap the hose around the device and put the handle to the side of the device and secure it by putting a relatively heavy object beside it, like the picture below. It's advised to put the setup on the side of the table so the nozzle blows away from the table.



Be extremely cautious about this step, because you're gonna need to let the device run on the maximum temperature (450°Celsius) for about 30 minutes to burn off all the production line residue left on the coil and insulators, it will get EXTREMELY HOT during this step, so DO NOT leave the device unattended, DO NOT put anything in front of the nozzle and DO NOT touch or let anything touch the metal part during this process. 450°Celsius is EXTREMELY HOT and WILL SET ANYTHING YOU PUT IN FRONT OF IT ON FIRE.
After 30 minutes, put the handle back on the stand and wait for it to cool off. These devices come with an auto standby feature which cools off the device to 100°Celsius then turns it off, and it is activated when you put the handle back on the stand, DO NOT turn off the device using the ON/OFF switch while it's running hot or while it's still cooling off on the stand, otherwise you will damage the device.
After cool off, set the power switch to off and unplug the device.

Step 1: Cut one 10cm wooden rod into two pieces using a bow saw according to the picture.



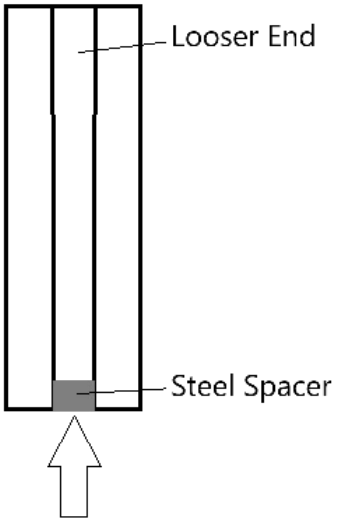
Step 2: Outer diameter of the 8mm nozzle of your device (Biggest nozzle in the 706W+ and 957DW+ and second biggest one in the 857 series) is actually 8.4mm and needs be able to fit almost airtight in one end of the 6cm while still be able to get attached and detached relatively easy and without significant force, so depending on your rod batch, you may need to make that end slightly wider by gently rotating an 8mm drill bit by hand or wrapping a piece of sandpaper around a smaller drill bit or a screwdriver and affix it with tape to work with it. Do it slowly and test fit the nozzle during the widening process to make a good fit. Note that the nozzle doesn't need to go all the way in, 5mm (0.2") is enough.



Save the 4cm wooden piece for the step 9.

Step 3: Smooth out your wooden pieces using sand paper, then clean the surface and the inside of your pieces using water then drying it with a clean cloth so you make sure there's no sawdust left.

Step 4: Wash the stainless steel spacer with alcohol, dry it with a clean cloth then push it in the tight end of your 6cm wooden rod all the way in.

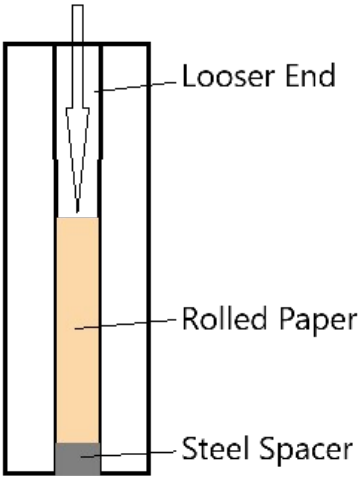


Step 5: Cut a 3.3cm (1.3”) x 11.5cm (4.5”) piece out of the unbleached paper. Roll it



until it looks something like this.

Then push this inside the 6cm rod, until it stops before the steel spacer. You will change this piece frequently.

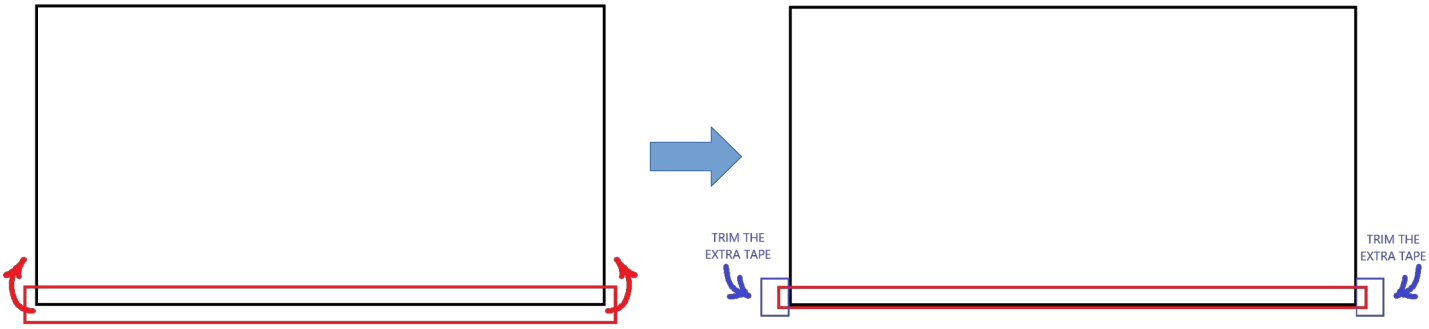


From now on, we call this wooden piece “The Chamber”

Step 6 (Optional): I like to seal the bag seams with transparent packaging tape before proceeding further, because they apparently start to leak vapor over time but you can skip this step. Simply lay down the oven bag on a clean table, cut a big enough tape and carefully lay it on the bag seam like this (Red rectangle is tape):

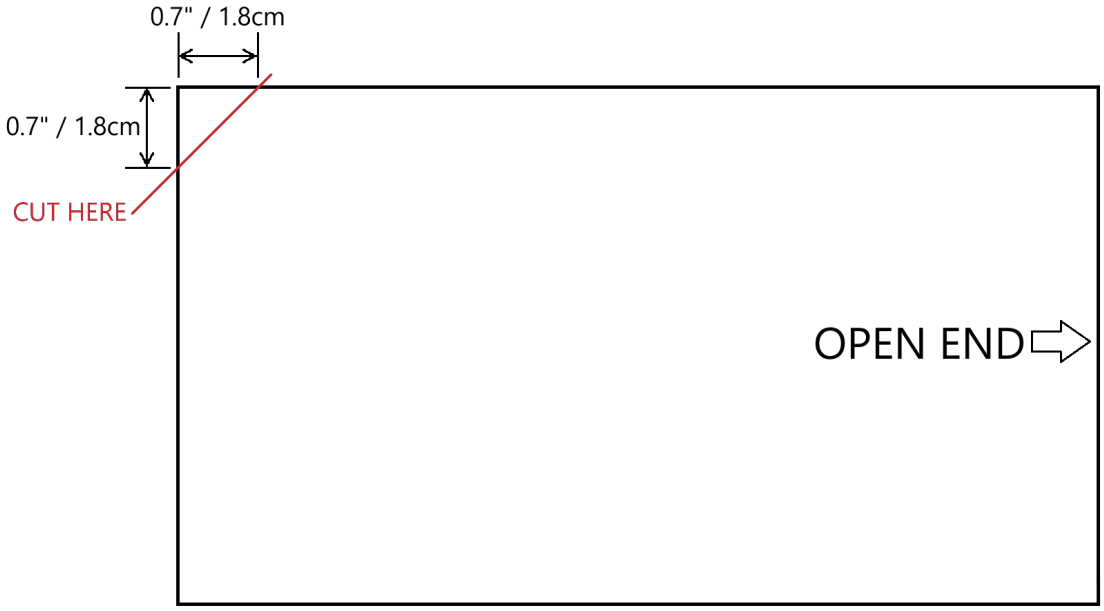


Then flip the bag and carefully fold the tape over.

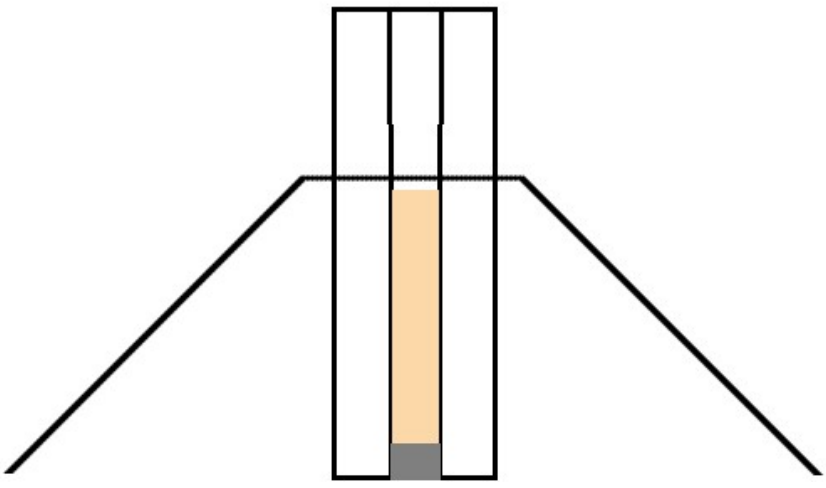


Trim the extra tape and repeat for the other seam.

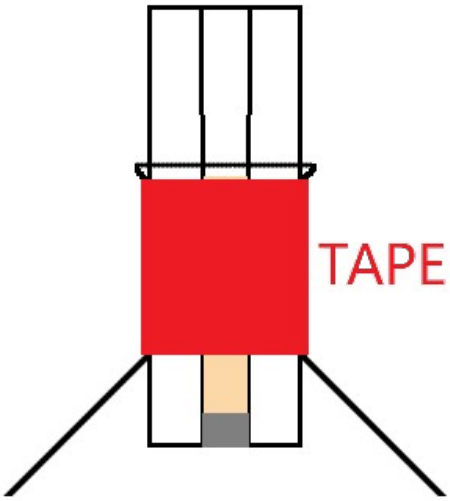
Step 7: Make a diagonal cut on the bag like the picture below.



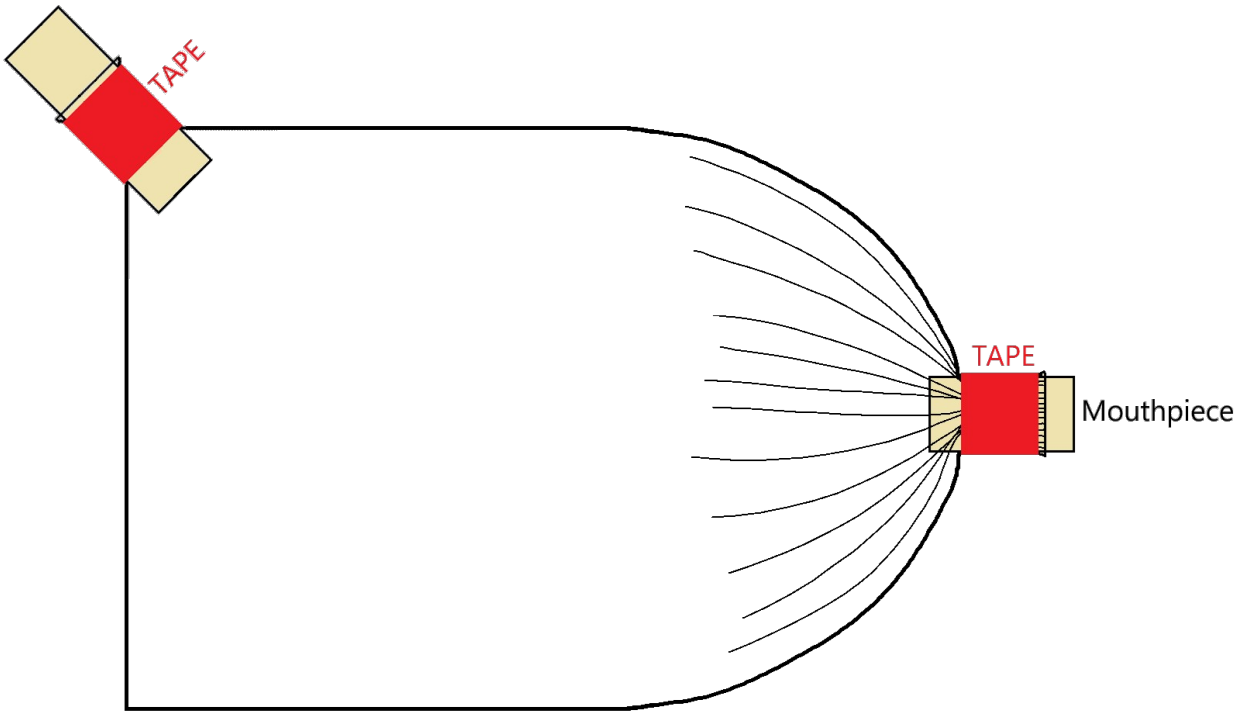
Step 8: Put the chamber inside of the bag through the hole you made in step 7 like this:



Then wrap the bag tightly around the chamber and secure it airtight using crystal clear tape around the bag with tension. The bag will be secured to the chamber with tension of the crystal clear tape, do not tape the bag to the wood.



Step 9: Wrap the whole open end part of the bag around the 4cm piece left from the step 1 (which from now on we'll call it "The Mouthpiece") then secure it with crystal clear tape just like step 8. Difference is that its a much bigger hole and wrapping it around the mouthpiece will cause the bag to fold several times. You may want to make tidy folds to prevent big overlaps in the bag which may cause leaking. Wrap the open end of the bag around the mouthpiece, then secure it airtight using crystal clear tape. The bag will be secured to the mouthpiece with tension of the crystal clear tape, do not tape the bag to the wood.



Your dry herb vaporizer bag is now ready to use.

HOW TO USE IT

CAUTION: THE METAL PART IN THE HEAT GUN HANDLE GETS HOT WHILE AND AFTER USING. DO NOT TOUCH IT.

Plug the hot air station to the wall, set the temperature to minimum (100°Celsius), make sure the handle is secure on the mount, set the power switch to on, set the air on the middle (4.5) and grab and put the handle somewhere safe and steady so nothing may block the airflow, nothing may touch the metal part and it may not move around or fall. For example you can wrap the hose around the device and put the handle to the side of the device and secure it by putting a relatively heavy object beside it, like the picture below. It's advised to put the setup on the side of the table so the nozzle blows away from the table.



Increase the temperature control and monitor the LED display until you reach your desired vaping temperature (Usually between 150°Celsius and 205°Celsius), then wait for the device to reach and stabilize the temperature.

Fill the chamber with desired herb, don't overfill, don't stamp heavily and don't grind the herb to powder, you should always grind and fill loosely to allow the air to flow through.

Set the air to minimum (1), check the temperature LED to make sure it's set on desired temperature, empty the air in the bag with inhaling through the mouthpiece, and attach the chamber to the hot air nozzle while still inhaling it (Inhaling while

inserting creates a vacuum force behind your chamber’s airway which stops the your device blow the herb out of the chamber the moment you want to attach), after attaching the chamber to the nozzle, quickly block the mouthpiece with your thumb, then increase the air to maximum. You may decrease the air if the vaping rate feels too fast, but more air usually yields better performance. Inhale the vapor frequently and avoid keeping the fully inflated bag attached to prevent damage to your hot air station device. When you are done, you can set the air to minimum and simply detach the bag from the hot air nozzle. It’s recommended to empty the bag with inhaling and keep inhaling while detaching to prevent the already vaped herb to get blown out while detaching.
You may attach the mouthpiece to a hookah or any kind of water pipe system which also doubles as a one way valve for the mouthpiece so you don’t have to use your thumb to control the mouthpiece, in that case, over inflating the bag does not harm the device, but vapor will escape if you allow the bag to get full.

Make sure to put the handle back on the stand after use to cool off before shutting the device down using the power switch as mentioned in the step 0.

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