

Olea

HOW TO DISTILL AT HOME

AUTHORS:

Giulia Chiggiato, Irene De Biasi, Chiara Guarino, Federico Montini, Vittorio Rinaudo

CO-AUTHORS:

Polifactory (Polifactory - Politecnico di Milano)

OLEA is a project publicly released and made available in open-source mode according to the Creative Common License (CC BY) and promoted by Distributed Design Platform with the related documentation.



Co-funded by the
Creative Europe Programme
of the European Union

1. Assembly and Use

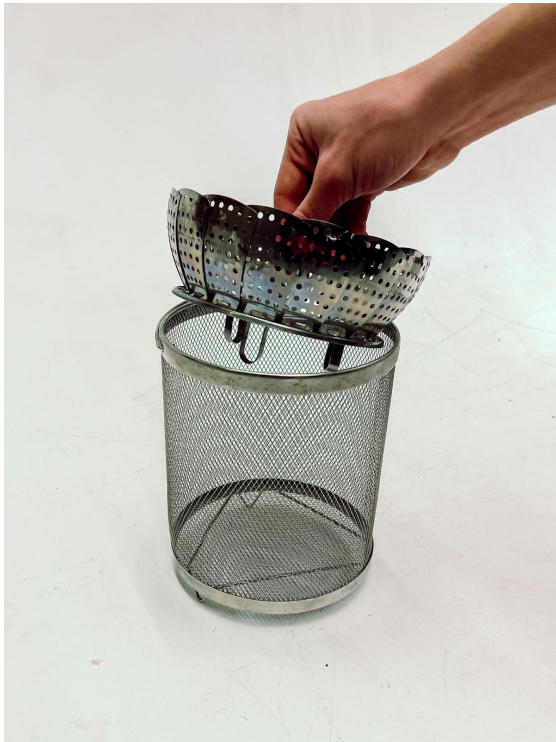
Step1: Place the pot on the stove.



Step2: Fill the pot with 1L of water.



Step3: Insert the smaller rack into the bigger one.



Step 4: Insert the herbs you want to distill by filling the rack up to the edge.



Step 5: Place the grids with the herbs inside in the pot.



Step 6: Place the hydraulic junction to the lid



Step 7: Fit the silicone guard obtained in STEP 1 onto the lid.



Step 8: Close the lid



Step 9: Use the metal clamps to better seal the lid.



Step 10: Place the silicone tube onto the hydraulic fitting.



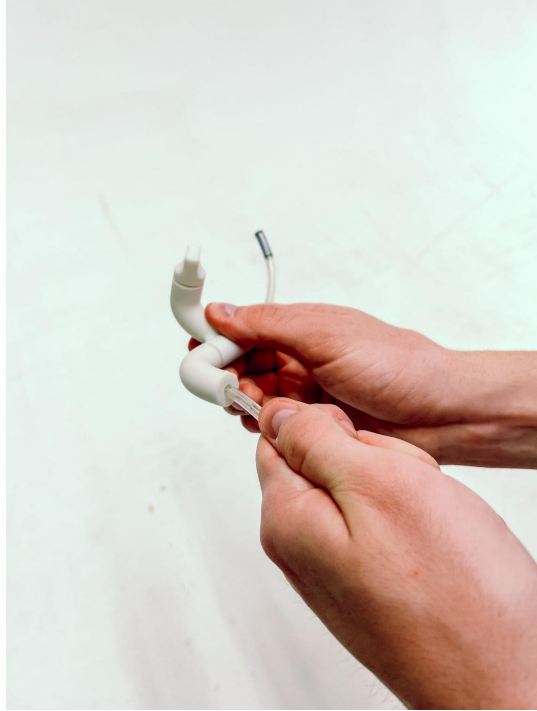
Step 11: Unscrew the existing faucet.



Step 12: Place the cooling container on the appropriate pedestal.



Step 13: Pass tube 2 inside the molded faucet into the straight canal.



Step 14: Insulate and seal the tap with clay and Teflon.



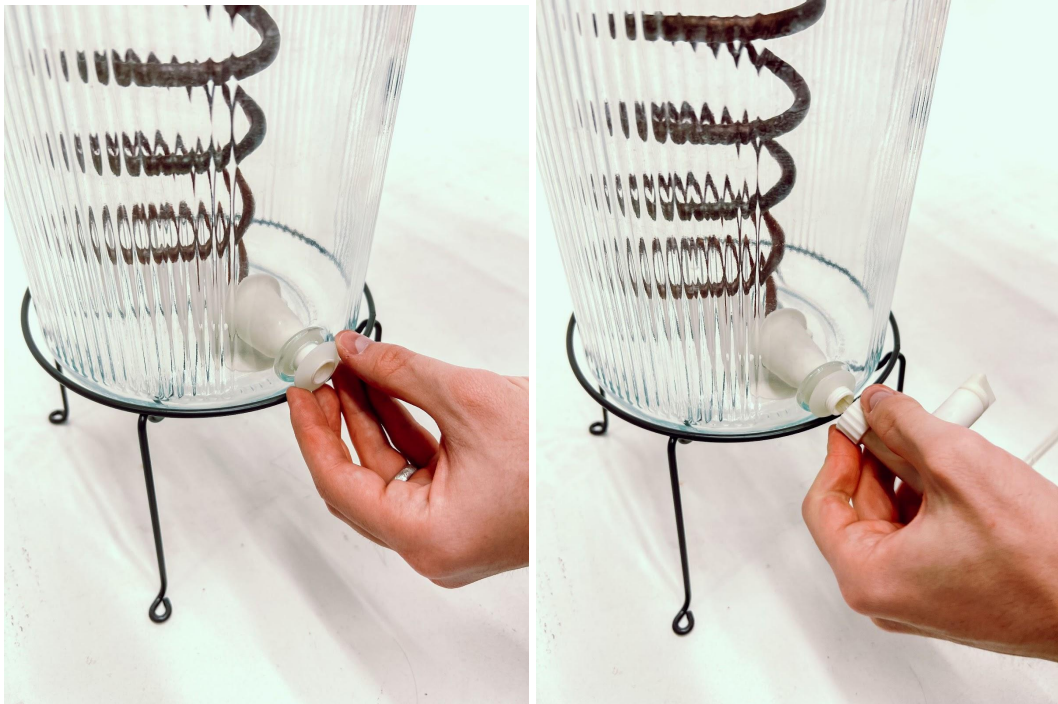
Step 15: Fit the coil onto the support previously hooked with the connector.



Step 16: Place the coil with the connector inside the bottle by passing it through the hole in the lower part of the dispenser.



Step 17: Hook the molded faucet to the coil.



Step 18: Fit the silicone support for the coil obtained in STEP 1 in the upper part of the glass dispenser and fit the coil into it.



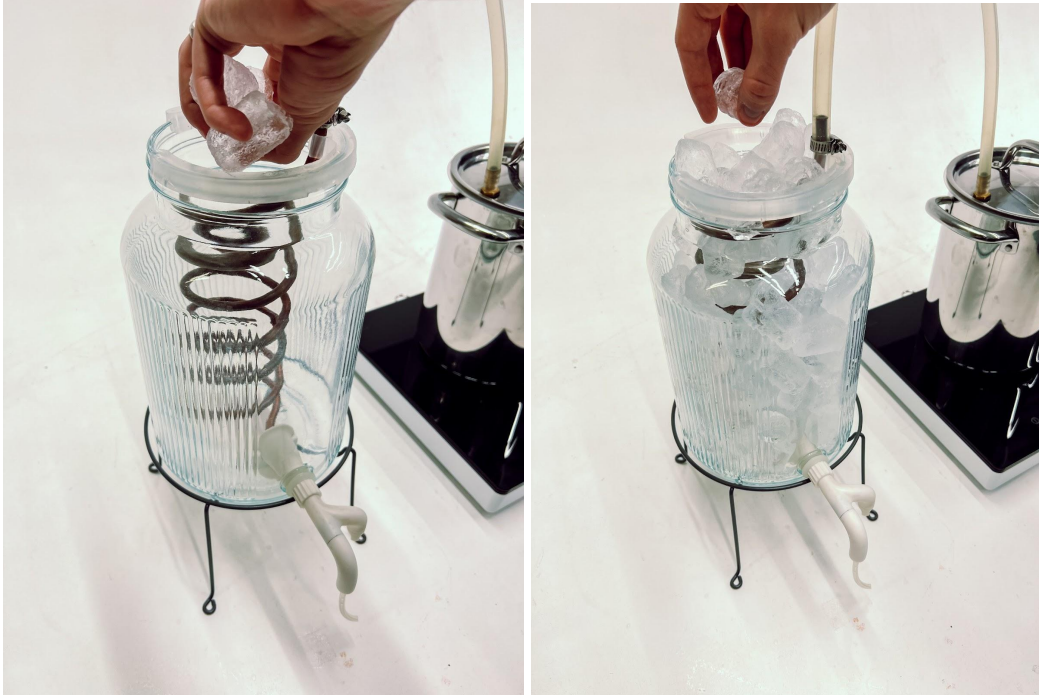
Step 19: Fit the silicone connection tube between the pan and the coil.



Step 20: Tighten the upper silicone tube to the coil with a metal clamp.



Step 21: Fill the dispenser with ice (2.5 kg).



Step 22: Place a container below the straight pipe to collect the hydrosol and oil.



Step 23: Turn on the stove at power 5.



Step 24: Begin the distillation process.

Step 25: Monitoring the ice, adding more if necessary keeping the coil completely submerged.

Step 26: If the container fills up when you add ice, open the second outlet of the tap and let the excess water drain out.



Step 27: After a cycle of one hour, turn off the stove.

Step 28: Leave the hydrosol mixed with the essential oil to rest in a container to let it separate.

Step 29: Before disassembling the product, leave it to cool for 10 minutes.

2. Warnings

During the distillation process, some components (pot, silicone tube and initial part of the coil) reach high temperatures, PAY ATTENTION! After switching it on, the process is autonomous; pay attention to the ice, supplementing it with new if necessary and that the container positioned for draining the cooling water is large enough.

3. How to clean Olea

Since the structure can be completely disassembled, the components can be washed individually. For a deeper cleaning it is advisable, every time you change the aroma, to carry out an empty distillation cycle to avoid possible oil contamination.

4. Credits

OLEA is a project developed by G.Chiggiato, I. De Biasi, C.Guarino, F.Montini, V.Rinaudo with the collaboration of Polifactory within the Distributed Design Platform project co-funded by the Creative Europe Programme of the European Union.

5. Download

OLEA files can be download at [Polifactory](#)

6. Contacts

Chiara Guarino: mail to chiara2.guarino@mail.polimi.it