

Desert fridge - light version

Les traductions désuètes sont identifiées ainsi.



Nomade des Mers



https://wiki.lowtechlab.org/wiki/Frigo_du_d%C3%A9sert_version_l%C3%A9g%C3%A8re/en

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 Difficulté Facile

 Durée 2 heure(s)

 Coût 2 EUR (€)

Description

A traditional zeerpot (or desert fridge) made with terra cotta pots quickly becomes heavy and difficult to carry around. The version presented here is a lighter and less expensive variant, feasible with materials that can be more easily found. The envelope is made out of fabric. The container can be in plastic, metal or any other sand-proof material. This container can be closed with a plug/cover or a fabric.

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Commentaires

Matériaux

- Container of the desired size, either in plastic either in any other sand-proof material
- Fabric with a thin stitch
- Board, either in wood either any other material
- Little plastic hose with a tap
- Bottle of 5 or 6 liters
- Sand

Outils

- Scissors
- Needle
- Thread

Étape 1 - External envelope

Making (or finding) a cylindrical bag allowing the introduction of the container surrounded by 5 centimetres of sand under it and around it. Providing a slide and enough fabric height to be able to close the bag around the container.

Étape 2 - Sand filling

Reinforcing the bottom of the bag with a board previously cutted in circle. Laying 5 centimetres of sand. Laying the container. Filling the sand on the side by pressing it. Filling the sand as high as possible. Once the sand has been filled and pressed, a string or a wire can surround the bag from the outside in order to strengthen the setting.

Étape 3 - Dripping

Drilling the hose with a needle to make some holes inside. Providing a tap in order to siphon the water supply. Having the pierced hose curved around the container, in order the water to be evenly spread in the sand during using. Providing a tap in order to be able to adjust the water flow.

Étape 4 - Using

Hanging a water reserve over the container. Siphoning it. Adjusting the water flow as you want it, and depending on the wind and the temperature. The content of the container will be kept cool! The zeerpot has to be sheltered from the sun and placed in a windy place.



Étape 5 - On-going tests

This zeerpot model is being tested on the boat of Nomade des Mers. It is tested :

- the dropping intensity
 - the internal and external temperatures measurement
 - the inertia
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Étape 6 - Autre version pour l'eau

On trouve certaines versions (notamment au Sénégal) composées d'un bidon entouré d'un tissu en jute et rembourré de 2 cm de chutes de tissus.

On vient mouiller la couche extérieure pour rafraîchir l'eau contenue à l'intérieur.

Cette version peut être adaptée à d'autres bidons avec une ouverture plus large et contenir des aliments.



Notes et références

- Made by Thomas Piboum and Karel Janik for Nomade des Mers