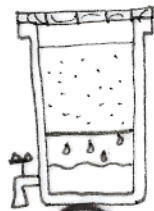


# FRISCHWASSER

FRESH WATER ~ EAU POTABLE



4a



4b



4c

NEEDS

DRINKING WATER

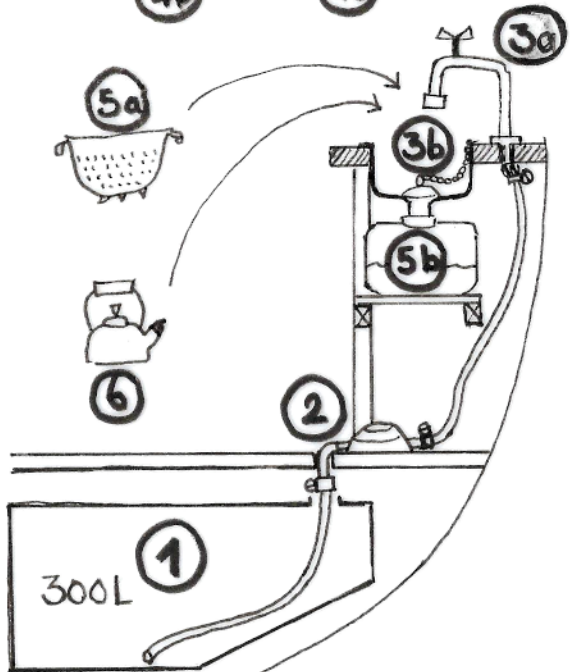
8 people, 2.5L/day/person

→ 150L/week

RINSING/COOKING WATER

20L/day

→ 150L/week



① WATER TANK 300L  
Wassertank / réservoir d'eau

② DIY- FOOT PUMP  
Fußpumpe / pompe à pied

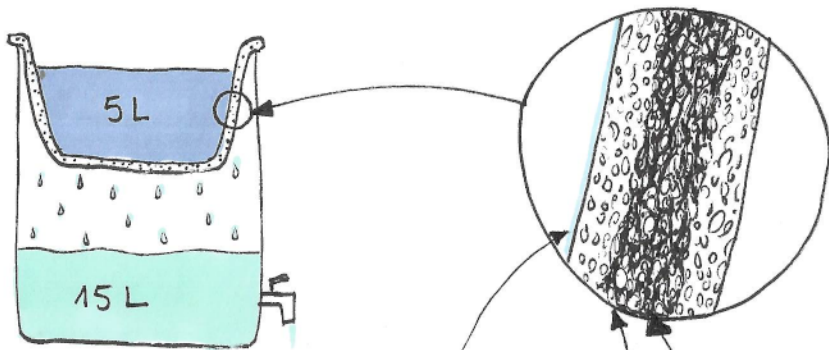
③ RE-USE TAP & SINK  
Wasserhahn u. Waschbecken  
/ robinet & évier

④ GRAVITATION WATER FILTER  
Gravitationswasserfilter  
Filtre à eau gravitationnel

⑤ RINSING WATER  
Spülwasser (Obst & Gemüse)  
eau de rinçage

⑥ COOKING WATER  
Kochwasser / eau de cuisson

# Ceramic Pot



Colloidal Silver Layer  
⋮  
antibacterial protection

Activated Carbon

Mixture of Clay & Combustible Material  
(e.g. rice husk)

⋮  
burns in the oven & forms the pores

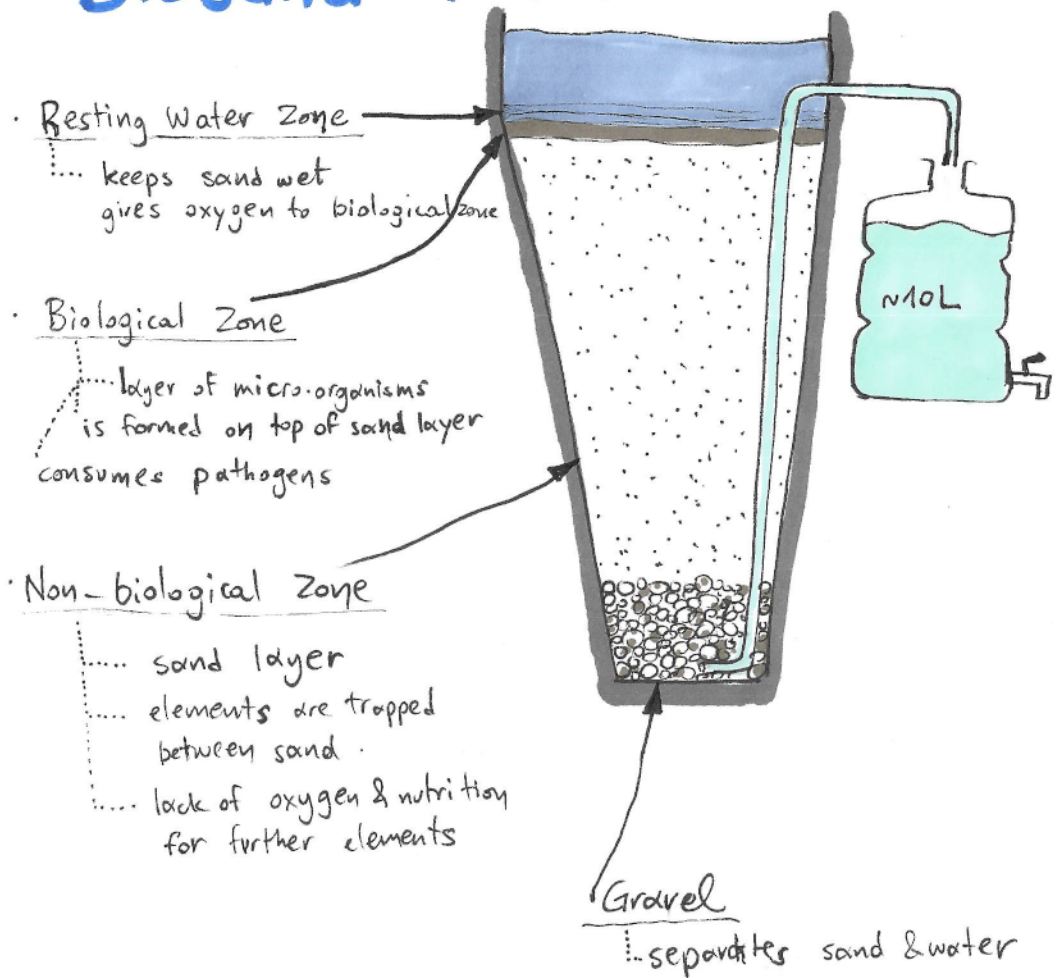
water filtration = slow water movement through the pores

- Maintenance: cleaning of pot every 6 months
- Lifetime: exchange of pot every 2 years

(+) :- simple & sustainable

(-) :- not easy to DIY → has to be imported  
- slow filtration process

# Biosand Filter



• Maintenance : rarely

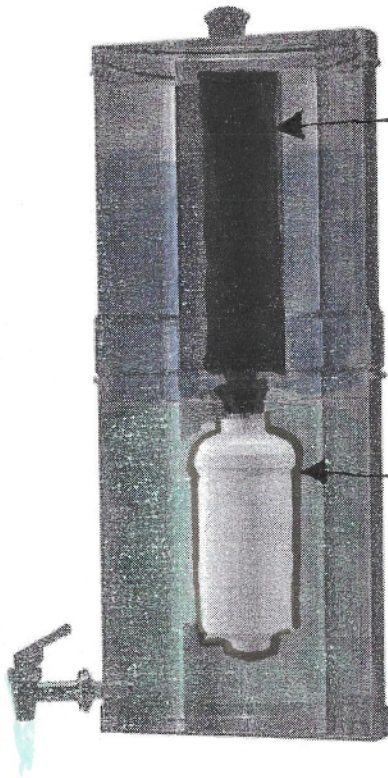
↳ sometimes upper layer of sand needs to be removed

• Lifetime : ?

(+) DIY construction possible

(-) needs one month of filtration to be fully efficient  
Heavy & big

# Berkey Water filter



Berkey Water

Purification Elements

⋮

Gravity Filter Elements

⋮

removes viruses, bacteria etc.  
chemicals  
reduces nitrates, heavy metals etc.

Berkey PF-2 Fluoride & Arsenic Reduction Elements (optional)

⋮

filters-out fluoride, arsenic, pesticides etc.

- Maintenance: rarely, depending on grade of contamination
- Lifetime:
  - Purification Elements exchange after ~22,000 litres of water filtered or after 3-4 years
  - PF-2 Elements exchange after ~3000 litres of water purified or after 1 year.

---

(+) Compact, fast & efficient filtering, long lasting

(-) Expensive, cannot be DIY, not a low-tech solution (?)