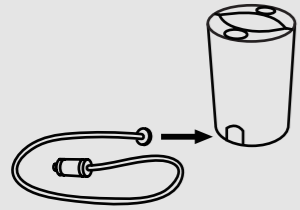


UltraPipe

survey



Use scenario

First step: Connecting the UltraPipe

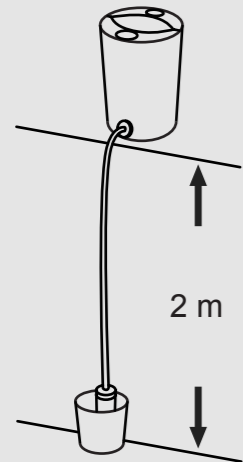
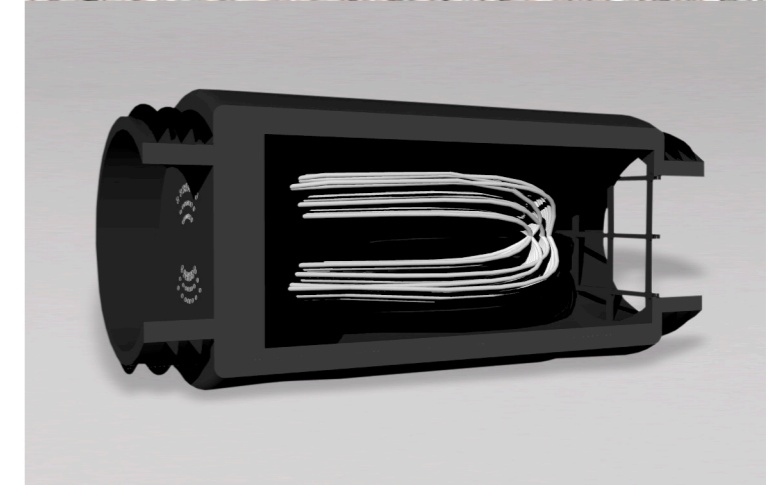
Assembly: almost the whole UltraPipe is composed of DIN-certified standard parts.

Option A: you can connect it to the WaterDonut
Option B: you can connect it to any other canister with adequate DIN-51 thread

Advantages

Standard parts:
- minimal costs
- access to spare parts all over the world
- connection to any other canister

DIN-51 screw cap with adapter: the built-in non-return valve ensures the air entrance even when a canister has only one opening.



Second step: Employment

Pressure: for purification a pressure of 0,2 bar is needed.

This pressure is reached by
- a lockable manual pump
- 2 metres of vertical height

There is no need for electricity or chemistry.

Why WaterDonut AND UltraPipe?

The WaterDonut is constructed to last about 10 years, but the inactivation of germs will only work when the sun is shining.
The UltraPipe works independent of the weather, but it has to be renewed at least every year.

This combination of treatment methods allows different possibilities of use, so that even poor people have the chance to clean their water for a long time.

Advantages

The midsection with the membrane:
- big filtration surface because of the tube-shaped membrane strings
- midsection can be changed separately
- this causes minimal costs for a new membrane

Third step: Filtration

Ultrafiltration membrane: The membrane strings can be pictured as a tube, they are bundled to loops and their ends are permanently casted into the casing.

- under pressure only the water molecules can pass the material PES of the strings - all germs, bacteria and viruses remain in the casing.
- on the other side only the pure water can drain off through the inner holes of the strings.

Advantages

Drying in the sun:
- maximizing the durability
- easy use and maintenance
- a grid avoids reaching into the midsection and destroying the membrane

Fourth step: Maintenance

Maintenance: absolutely necessary, because standing water is a perfect culture medium for micro-organisms.

- disassemble the UltraPipe
- empty the midsection
- dry the single components in the sun

