Drop2Drink unit
Drinking Water
from Rainwater

WATER IS LIFE

But drinking water is becoming increasingly scarce

Water is our primary necessity of life, but sufficient clean and safe drinking water is no longer available for more than a quarter of the world's population. This basic necessity is at stake.

Because although 70% of the earth's surface consists of water, only 2.6% fresh water and 0.6% is available as a source of drinking water. But those resources are either polluted by human influence or simply run out because we use more than nature replenishes.

Rainwater is the eternal source!

Fresh water is continuously renewed by rain, it is distilled. Fresh water is released through evaporation. In most countries there is more than enough, but we do not yet recognize it as a source and handle it carelessly. All we have to do is collect at put rainwater to use.

Make your own drinking water

Untreated rainwater is already suitable as household water, but modern purification technology allows you to make drinking water from rainwater yourself. That's why we developed the *Drop2Drink* unit. You can become completely self-sufficient and independent of your drinking water company.

RAINWATER IS CLEAN AND FREE. WE MAKE IT SAFE.

DROP2DRINK UNIT

Safe water from rainwater

With the Drop2Drink unit you make your own drinking water. The intelligent system provides 100% microbiologically safe water, free from germs and therefore safe to drink. The rainwater is purified with a microfilter, active carbon filter, membrane filter (UF) and UVC unit. Everything in one step.

All you have to do is collect rainwater.

Applications

The *Drop2Drink* unit is a point-of-entry system with a high flow rate and is suitable for:

- ✔ Homes and apartments
- ✔ Hotels and recreation accommodations
- ✔ Cattle breeding
- ✔ Food industry

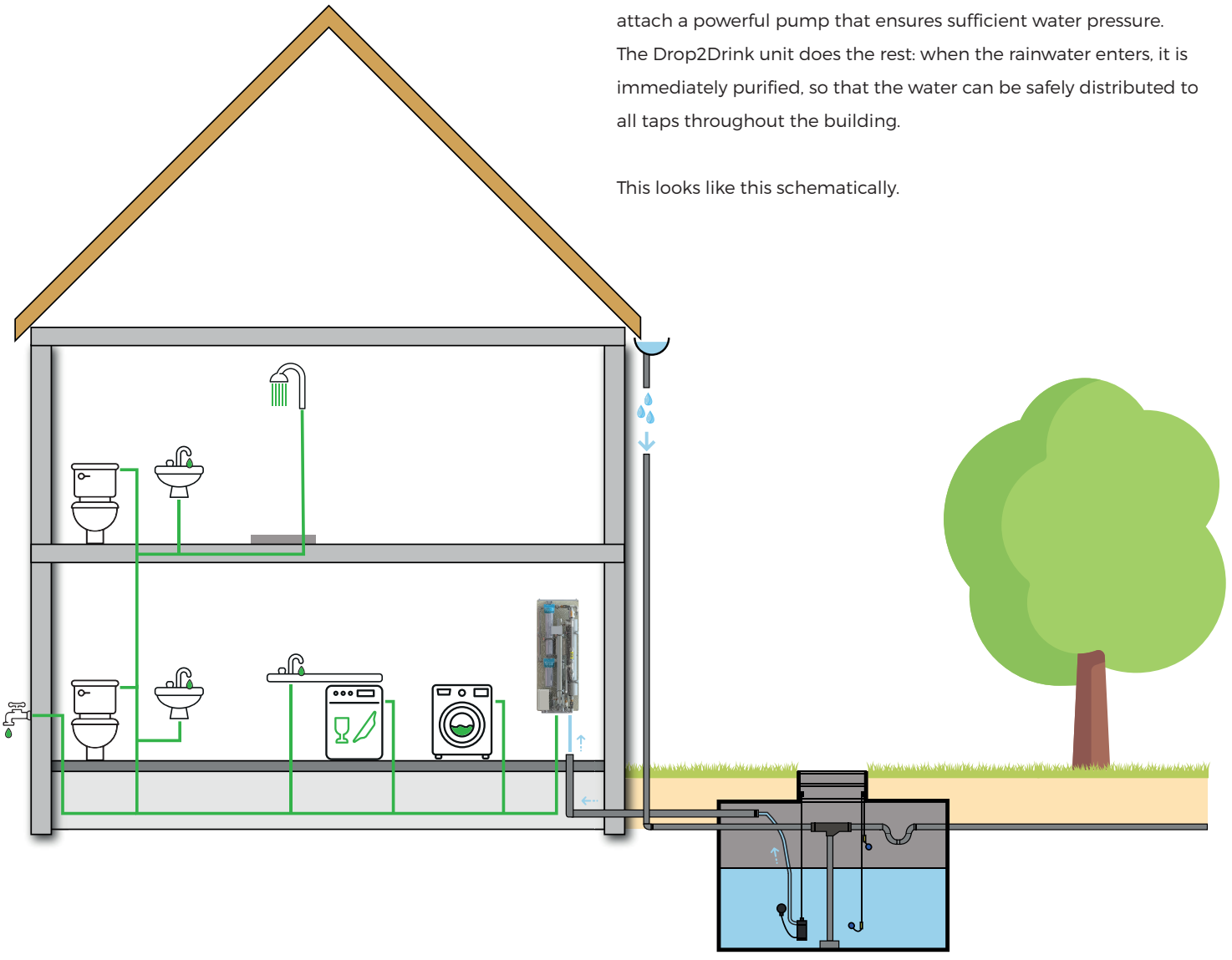
Advantages

1. Microbiologically safe water from rainwater by:
   a. Double barrier principle
   b. Built-in self-check: integrity test on the membrane filter
2. You can become independent and self-sufficient
3. The unit is plug & play: easy to install, use and maintain

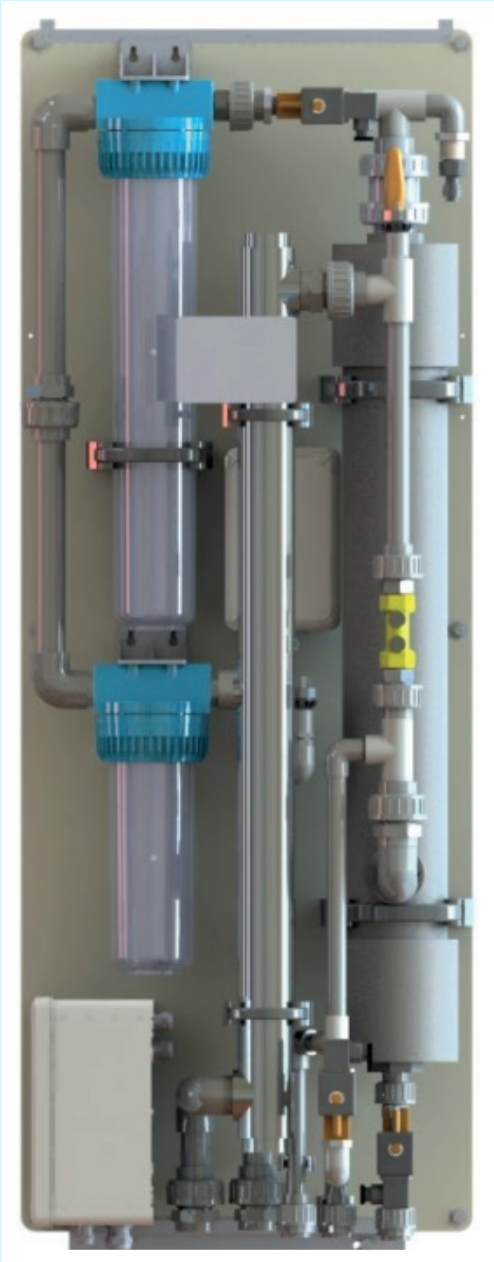
RAINWATER SYSTEM WITH DROP2DRINK UNIT

A rainwater system with the Drop2Drink unit is very simple. You collect the rainwater in a tank with a pre-filter. In the tank you attach a powerful pump that ensures sufficient water pressure. The Drop2Drink unit does the rest: when the rainwater enters, it is immediately purified, so that the water can be safely distributed to all taps throughout the building.

This looks like this schematically.



HIGH END TECHNOLOGY



Version 20l/min

Version 30l/min

TECHNICAL DATA

MULTISTAGE FILTRATION	Microfiltration at 50µ Active carbon filtration Ultrafiltration membrane at 0,03µ UVC-unit 30W
SAFETY CHECK	Automatic forward and backward flush Integrity test on membrane rupture
FLOW	Version in 20l/min (1,2m³/h = 4.4 Imp. gpm = 5.3 US gpm) Version in 30l/min (1,8m³/h= 6.6 Imp. gpm = 8 US gpm)
CONTROL	Settings & error messages Internet connection & USB port

SAFE WATER

Rainwater is clean when it is in the clouds, but can be polluted when it falls and starts to flow. This mainly concerns organic pollution, including bacteria and viruses. These are microorganisms that can cause diseases in humans and animals. In water quality tests results from *Drop2Drink* unit, these may no longer be found. The *Drop2Drink* unit has been extensively tested for the removal of micro-organisms and does this very reliably.

1. Field tests on rainwater

The removal of microorganisms from rainwater has been tested by us in practice for 5 years at several homes and companies. The water quality has been tested by accredited laboratories. Field tests on rainwater.

2. WHO

The Drop2Drink unit was tested by the WHO in 2020 at KWR, one of the most qualified water research centres in the world. The test results were excellent.

Microorganism	**Log_{10} - reduction**	**Proc. removal**
Bacteria	8,2	99,999999%
Virusses	5,7	99,999%
Bacteriophages	3,7	99,9% (bij log 4)
Protozoa	8,2	99,999999%

World Health Organization

KWR

"This investigation was carried out as part of the WHO International Scheme to Evaluate Household Water Treatment Technologies".

3. VIDA
(Value-added Innovation in food chains)

For the European subsidized VIDA project, the Drop2Drink unit was tested at two companies in the food sector in 2020 to demonstrate that purified rainwater can fully meet the requirements for drinking water in accordance with the Dutch Drinking Water Act. That has been carried out successfully. With the Drop2Drink unit you can therefore rely on the safety of the purified water.

VIDA value-added innovation in food chains

Co-funded by the European Union

With the Drop2Drink unit you can therefore rely on the safety of the purified rainwater

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