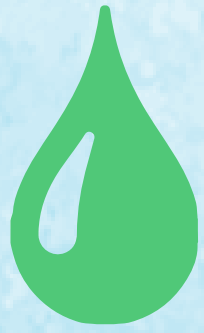




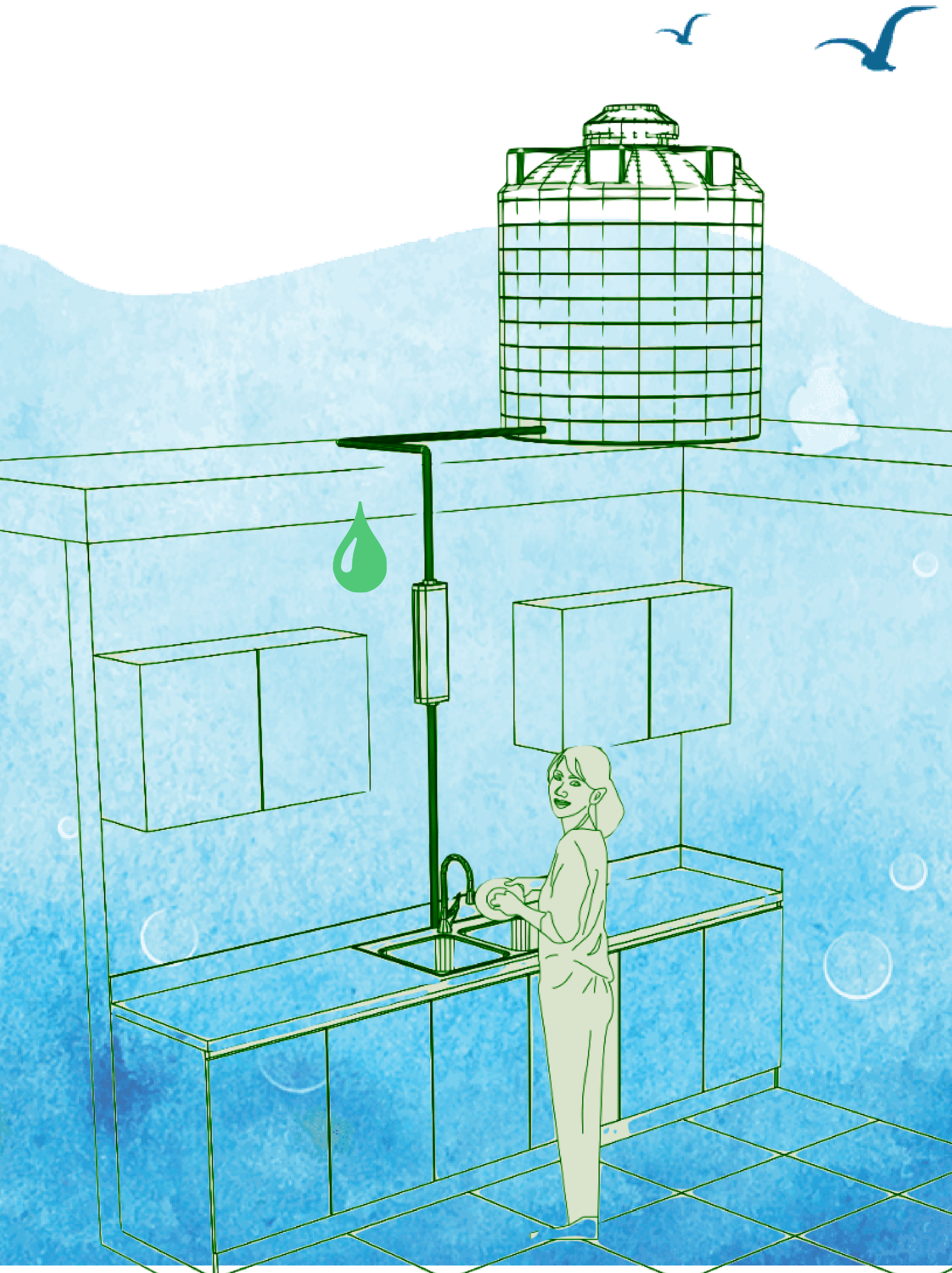
NO ELECTRIC POWER
REQUIRED



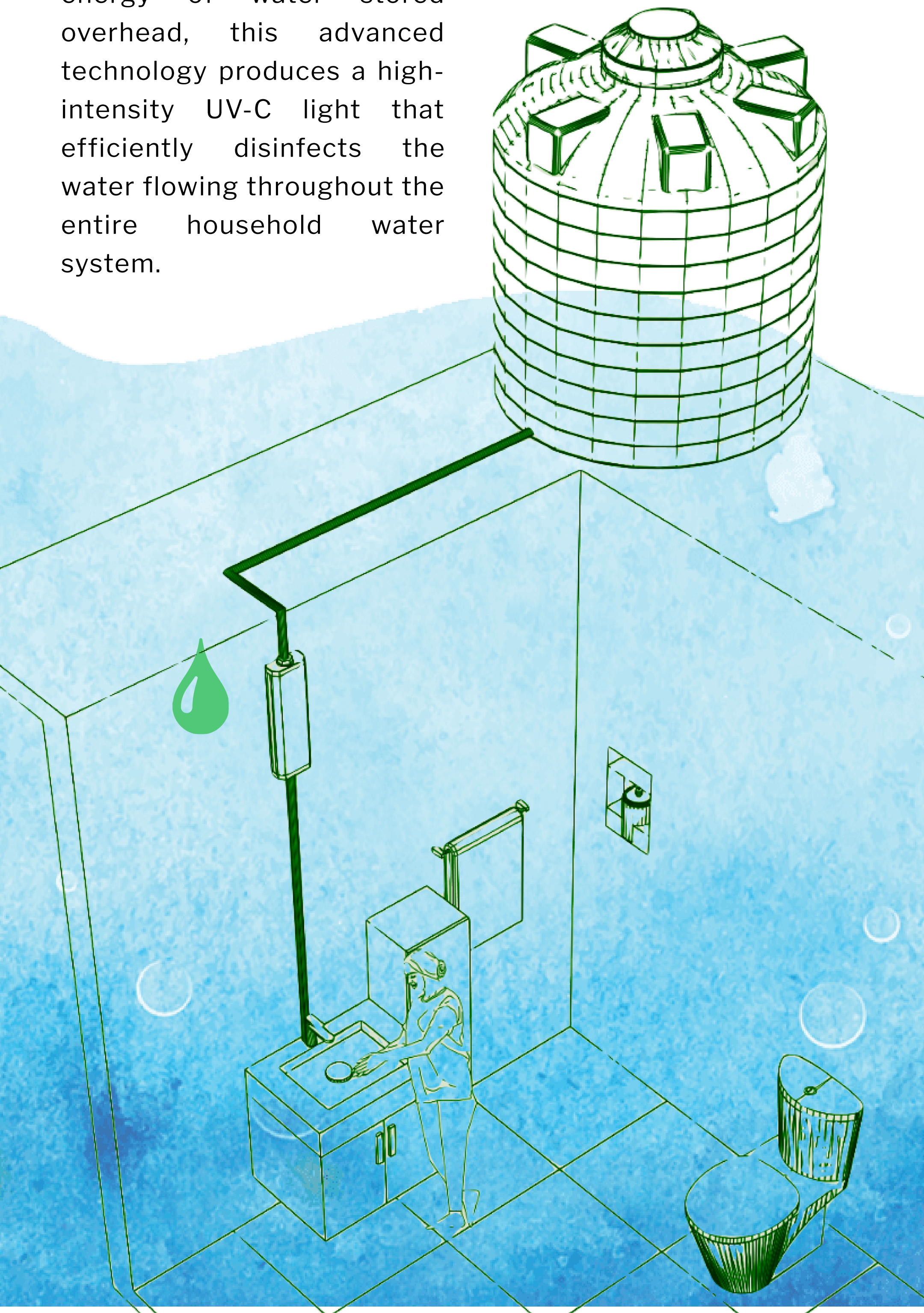
UV-C WATER DISINFECTION DEVICE

UVC 4 AQUA

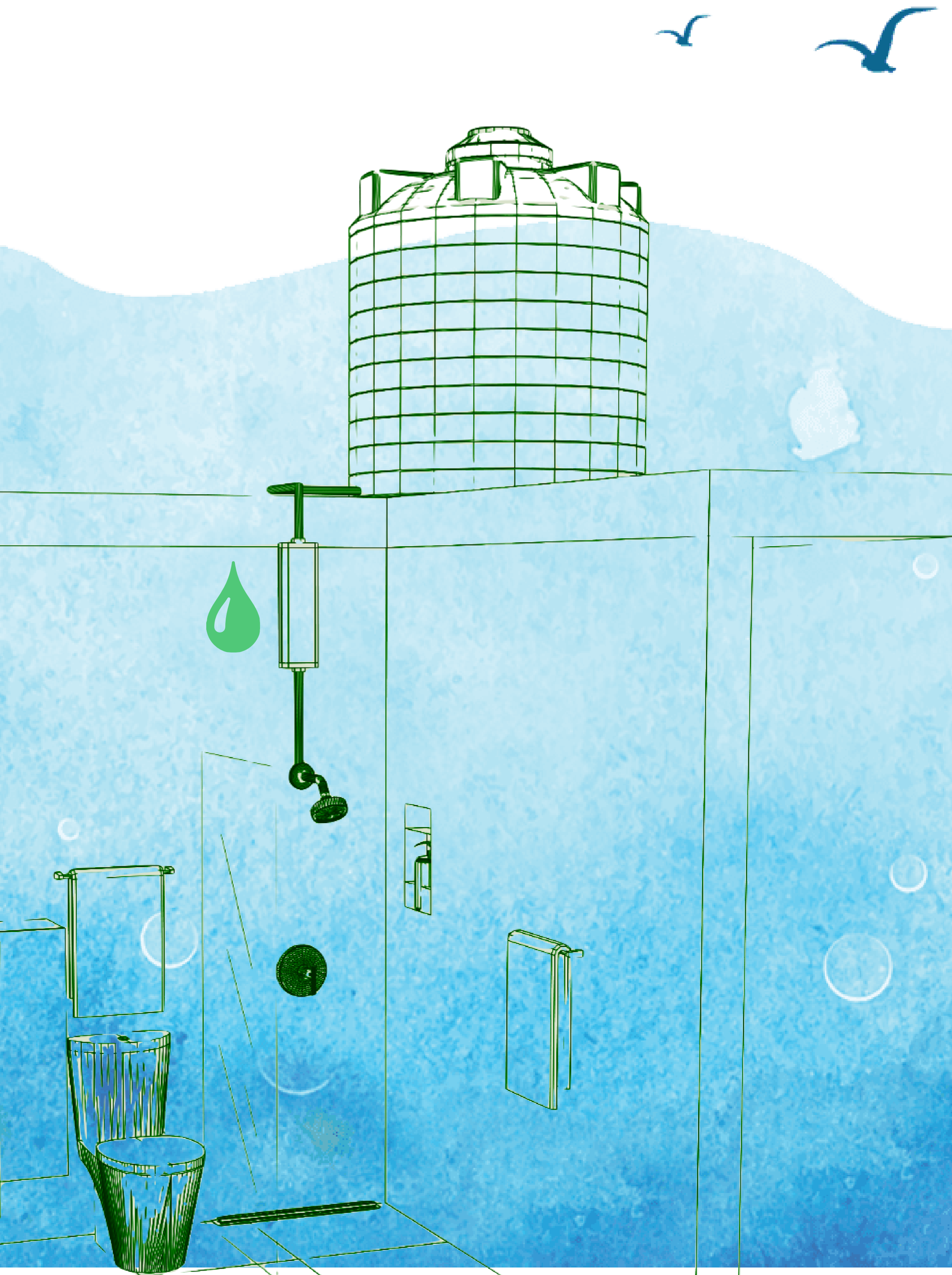
Introducing a groundbreaking UV-C disinfection device with zero power consumption which is set to trailblaze the disinfection technology. A product of Candela Research Centre Private Limited.



By harnessing the potential energy of water stored overhead, this advanced technology produces a high-intensity UV-C light that efficiently disinfects the water flowing throughout the entire household water system.



UV-C 4 AQUA ensures the protection of not only drinking water, but also all other water-related usages, such as washing activities, fruits and vegetables, taking showers, performing ablutions, and more.



UV-C 4 AQUA Disinfection System

...Benefits...

"No Electric Power" required.

Electric power is not necessary as the UV-C germicidal light can be automatically powered by the potential energy of water stored in overhead tanks.

Natural – UV-C light is a natural method of purification

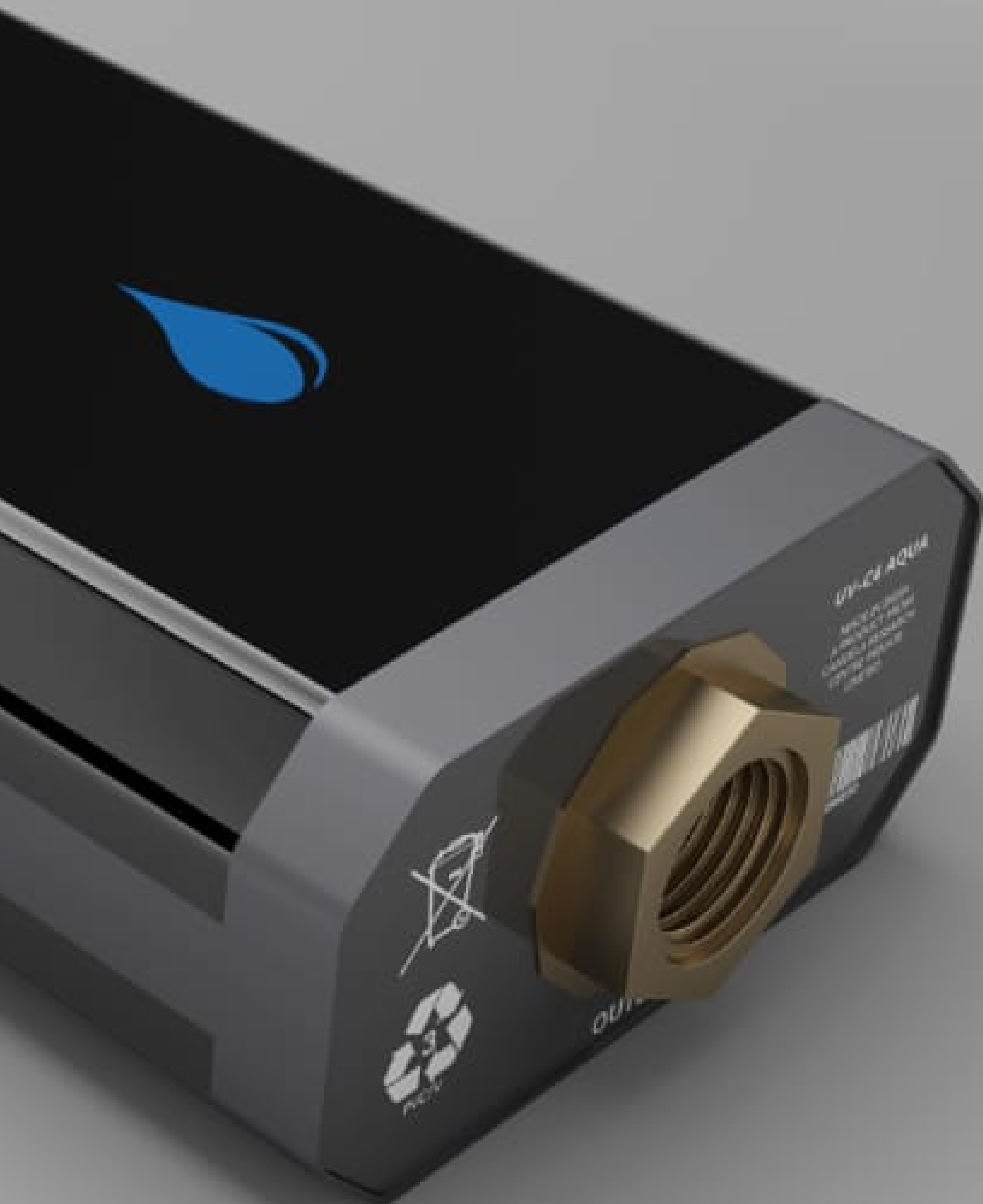
Environmentally Friendly – UV-C light does not produce any toxic by-products during the process, making it environmentally friendly.

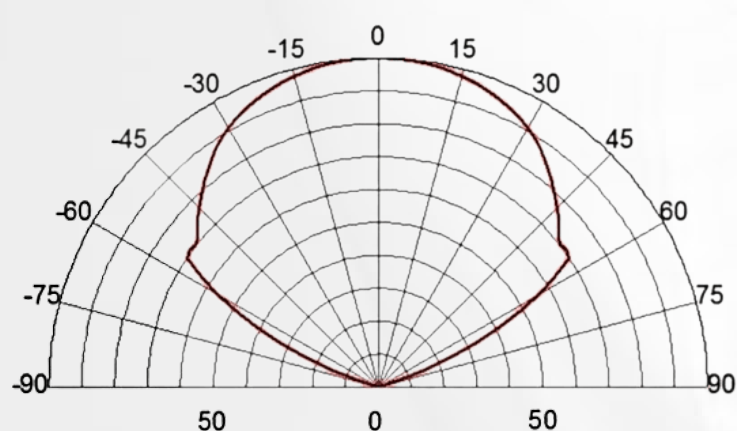
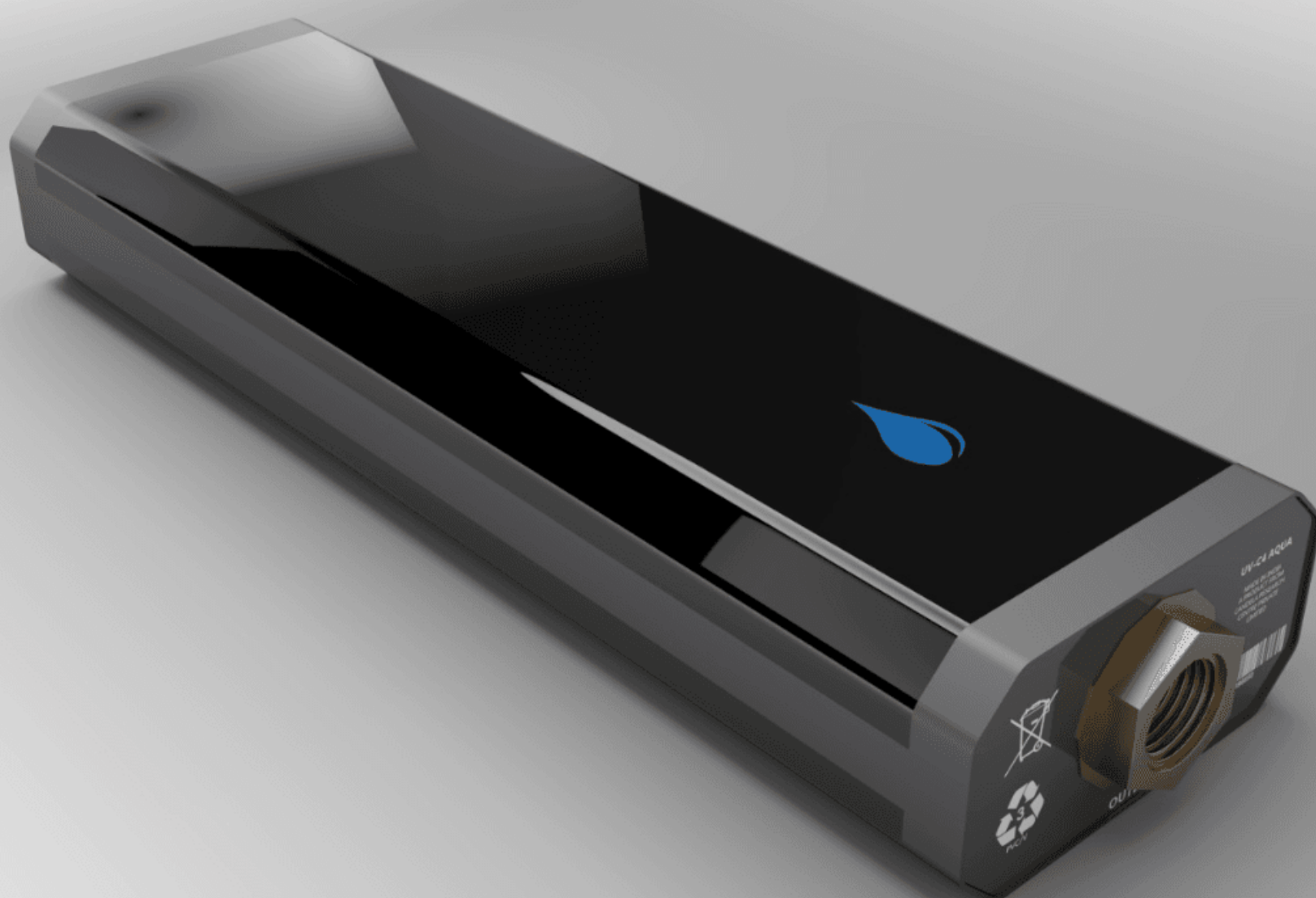
Effective – All known microorganisms are susceptible to UV-C light, making it highly effective.

Economical – With UV-C 4 Aqua from Candela Research Center, there are no operating costs, making it an economical option

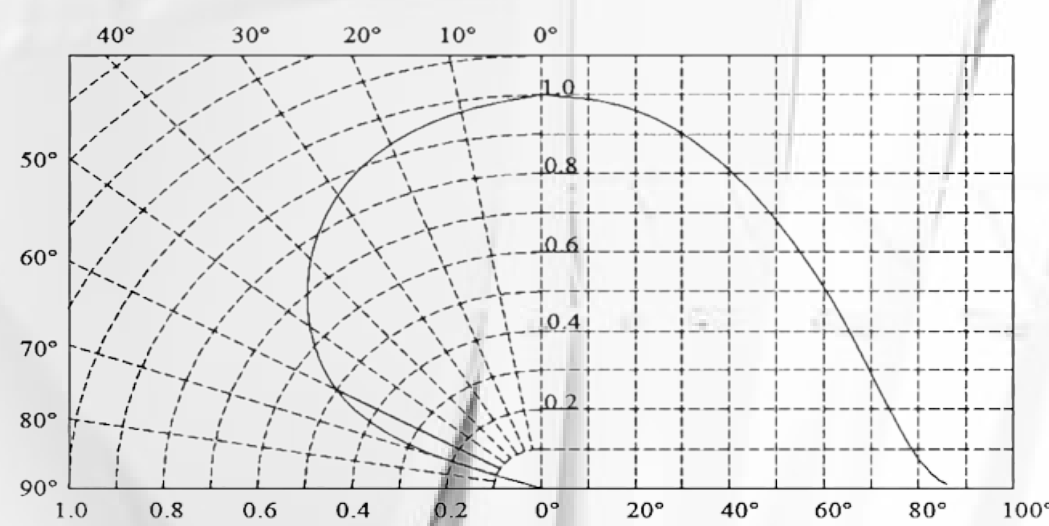
Fast – since it is an in-contact purification method, it provides instant results.

This UV-C disinfection technology is the world's most advanced and efficient system, providing a high-level of disinfection for municipal/potable water usage. It is an eco-friendly solution that operates without electricity, making it a sustainable and cost-effective option for households and communities.





Spatial Distribution Graph

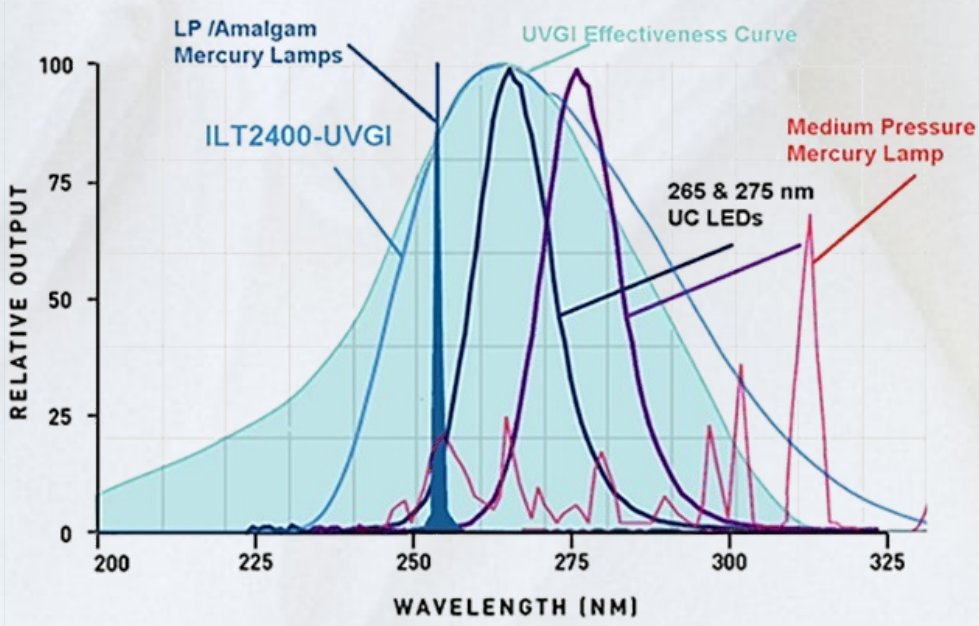


Angular emission
characteristic diagram

To ensure optimal performance, it is advisable to use a strainer at the inlet with the system operating at a minimum pressure of 0.5 Bar. One unique feature of UV-C 4 AQUA, a product of Candela Research Center is its ability to self-generate power using the potential difference of the water head, making it independent of an external electrical power supply. With a protection class IP68 rating, the product is suitable for both indoor and outdoor applications. Additionally, it is suitable for potable water as it complies with non-toxic material construction and is appropriate for drinking water applications.



UV-C LED	
Array-1 LED	
Quantity	2 Nos.
Wavelength	275 nm
Radiant Flex	28 mW
Array-2 LED	
Quantity	2 Nos.
Wavelength	265 nm
Radiant Flex	11 mW/
Cumulative Radiant Flex	89 mW/
Average kill factor	30 mJ/cm2



...Benefits of UV-C technology...

This technology effectively eliminates microorganisms such as viruses, bacteria, molds, and spores, preventing their growth and propagation.

It also keeps the surface of water pipes clean from biofilm, protecting against microorganism growth.

Installing UV-C is easy and cost-effective, with low capital and no operation costs.



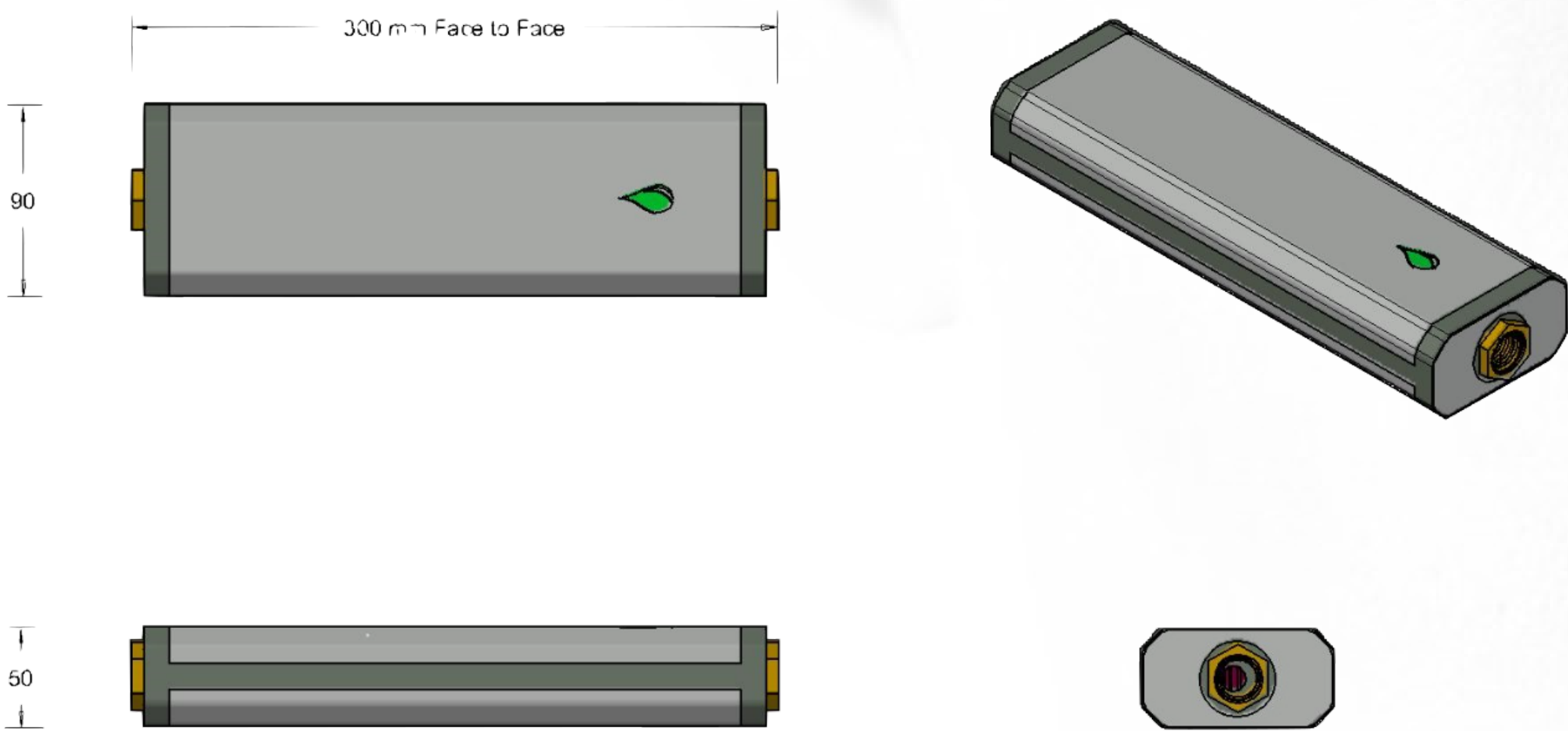
Working principle of UV-C

Germicidal UV-C light has the ability to deactivate the DNA of bacteria, viruses, and other pathogens, which effectively eliminates their ability to multiply and cause diseases.

UV-C light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA.

By utilizing ultraviolet light with a wavelength of 254 to 275 nanometers, the system effectively targets and eliminates various microorganisms such as bacteria, viruses, molds, and algae that thrive and propagate in water.

Through the complete eradication of microorganisms by destroying their DNA, the technology prevents them from reproducing and causing harm.



Material of construction

Exterior	SS 316 L
Main body	ABS Plastic (UV Resistant)
End connection	1/2" BSPT
Internal Power Generation	DC Generator
Primary Optic	Fused silica glass
Minimum required pressure	5 Mtr head
Design Temperature	0 - 80 deg C

Product Dimensions

Length	300 mm
Width	90 mm
Height	50 mm
Weight	1100 Grams



Europe

Ampersand Systems Trading & Services

Phone: +49 621 48494641

Mobile: +49 176 43218175

E-Mail: sales@ampersandsystems.de

www.ampersandsystems.de

MENA



Po Box 80461, Office 12

Building A2422., Block 633,

Road 3366,

Phone: +973 39714408

Al Ma'ameer, Kingdom of Bahrain.

www.gecon.tech info@gecon.tech

UAE & Oman



marakez

TRADING LLC

PO BOX: 79988, Shuraa Gold

Business Centre, 9th Floor, Empire

Height A building, Dubai; UAE

PH: +971 527150500.

Email: uae@marakez.me



Candela Research Center

Building No: 38

Phone: +91 484 2535292

Paravoor, Kerala India

www.candelarc.com

info@candelarc.com

Manufactured by