

SAFE DRINKING WATER AFTER A MASSIVE EARTHQUAKE IN ECUADOR

Nedap | World leader in UV lamp driver technology
Näiade mobile water purification unit



CASE STUDY | ECUADOR EARTHQUAKE

Ecuador was struck by an earthquake measuring 7.8 on the Richter scale on 16 April 2016. The death toll quickly rose to more than 500 and thousands of people were injured. The damage to buildings and infrastructure was huge. The earthquake's epicentre lay close to the town of Muisne on Ecuador's northern coast.

A state of emergency was declared in six Ecuadorian provinces following the worst earthquake since 1979. The provinces of Manabi and Esmeraldas were hardest hit.

Nedap's distributor in Ecuador, Latinkursa, made a Näiade available to the Laica "Eloy Alfaro" Manabi (LEAM) University in Manta Ecuador. The Näiade was used to purify water at different locations in the affected area, giving many people access to safe drinking water.

Use of the Näiade satisfied one of the basic necessities of life and saved hundreds of human lives.



Helpers from University LEAM committed to distributing free purified water to the entire community.

naïade

Safe drinking water for everyone



Durable body

Made of plastic.
 Capacity of 100 litre.

Filters

Mechanical filters clean the water of impurities.

Solar panel

The solar panel measures 53.7 x 120.9 cm and has a capacity of 75W.

Ultraviolet light

Makes water safe to drink.

Pictograms

Pictograms demonstrates how to operate.

Battery

It is possible to include a battery in the unit allowing operation during the night.

THE NAÏADE SOLUTION

The Naïade is an easy-to-install water purification system which delivers clean and safe drinking water. The Naïade is powered by solar panels and can be used anywhere. Ultraviolet light is used to neutralise micro-organisms, bacteria and viruses without using chemicals.

Technical data

Energy source	sunlight
Solar panel	75 watt
Energy storage	standard car battery
Daily average capacity	3000 litres (up to 400 people)
Water prefilters	bag filters 10 µ and 25 µ
UV disinfection lamp	20 watt
Water tank	100 litres
Dimension	54 x 75 x 140 cm
Weight	44 kg
Effective against	viruses, bacteria, protozoa and worm eggs

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