



WATER SOLUTIONS

MOBILE ULTRAFILTRATION

THE NETHERLANDS

COLOMBIA

SPAIN

CHINA

LIC SUSTAINABLE SOLUTIONS

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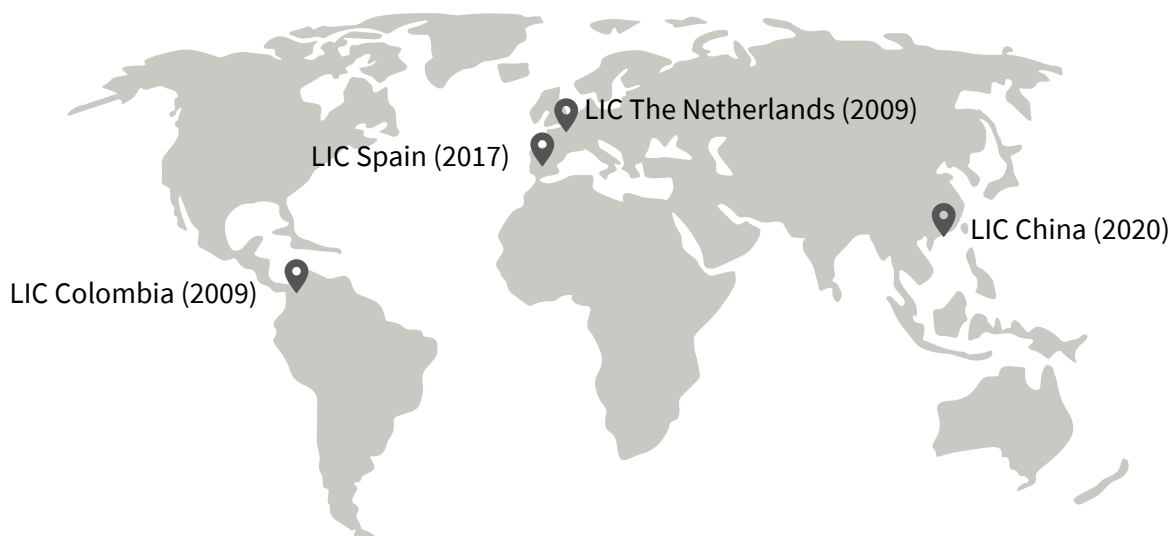
LIC GLOBAL PRESENCE

LIC Sustainable Solutions is a Dutch organization with offices in The Netherlands, Spain, Colombia, and China, specialized in designing, producing, and implementing innovative hightech solutions for Smart Cities.

Among other technological solutions, the company designs and manufactures customized modular water treatment plants for municipal and industrial water purification. The company specializes in small, custom build, semi-permanent plug-and-play installations. The purification plants the company supplies are operational within a week after delivery. Led by its technical team, LIC collaborates with clients to transform their specific needs in a custom build solution and participates from initial discussion through to post-installation support.

The municipal and industrial water treatment plants provided by LIC are shipped ready for use, offering rapid turnaround and quick installation. These made-to-order plants are suitable for emergency, temporary, semi-permanent, and permanent solutions.

LIC is committed to providing and promoting sustainable practices that benefit society and the environment.



LIC DESIGNS, MANUFACTURES, DISTRIBUTES, AND
INSTALLS SOLUTIONS FOR:



SMART CITIES



SMART LIGHTING



SMART ENERGY



SMART WATER



CLEAN WATER HAS BECOME INCREASINGLY CRITICAL, DEMANDING URGENT ATTENTION LIKE NEVER BEFORE

Insufficient water supply and contaminated water often cause health problems for displaced or vulnerable communities. That's why LIC offers water treatment solutions in our Smart Cities portfolio, ensuring **equitable access to safe drinking water for all**, promoting health and well-being.

LIC IS AN ACTIVE MEMBER OF:



United Nations
Global Compact



LIC is an active member of the **UN Global Compact**, we are committed to align strategies and operations with universal principles on **human rights, labour, environment, and anti-corruption**, and take actions that advance societal goals. **Our Smart City Solutions successfully support the fulfillment of goals:**



Access to clean water is a fundamental issue LIC is targeting in order achieve these goals.

Additionally, LIC, as a member of Holland House in Colombia (Cámara de Comercio Colombo-Holandesa), has leveraged this platform to champion the interests of the Netherlands in the region.

This has been accomplished by **introducing sustainable technology to underprivileged communities lacking access to essential resources like street lighting and clean water.**

LIC's

CLEAN WATER APPLICATIONS

We offer a diverse array of technologies and extensive expertise across various water-related fields, ensuring our customers receive cost-effective water treatment and filtration solutions tailored to their specific needs. Our specialized technical sales division provides top-notch service by supplying water treatment components, spare parts, and consumables from leading manufacturers worldwide.



Mobile water filtering installations

LIC offers mobile ultrafiltration installations with capacities from 3 up to 200 m³/h. These are available as skid mounted units or integrated in a container. All mobile UF systems are equipped with inge dizzer® XL ultrafiltration modules. This UF installation is able to produce up to 200 m³/h purified water depending on possible fluxes.

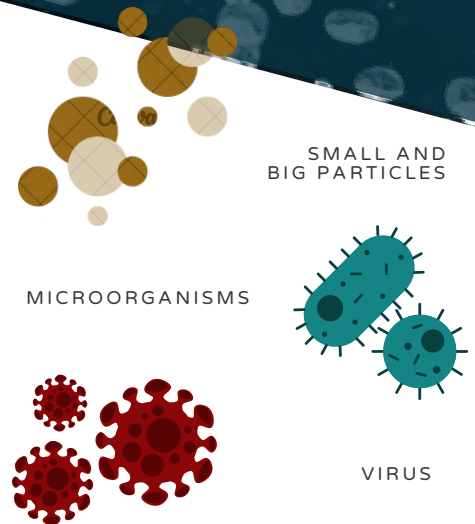
Plug and play

With appropriate preparation, the system can be made operational within a few hours. On site, service engineers only need to connect the source water, purified water drains, power and remote control connections once the site is made available and approval has been given.



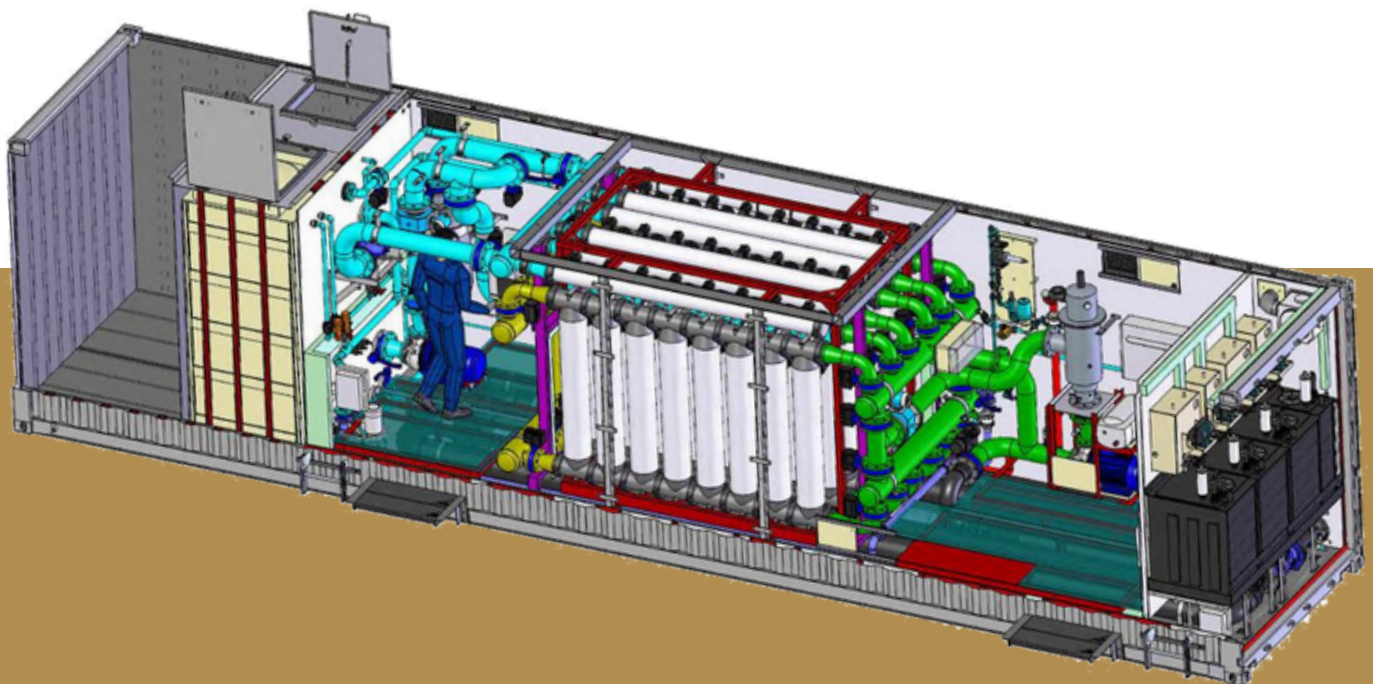
TECHNOLOGY: ULTRAFILTRATION MEMBRANE

Particles, microorganisms and viruses are securely retained by the reliable ultrafiltration membrane. As the membrane can clean itself automatically, it can continually treat raw water that is heavily soiled with particles. In contrast to the reverse osmosis membrane, the ultrafiltration membrane requires less energy and is therefore more efficient, i.e. delivers more drinking water per hour.



POSSIBLE APPLICATIONS:

- Treatment/purification of lake, river, and well water
- Re-use of wastewater and other process water flows
- Production and purification of cooling water
- Ideal pretreatment prior to nanofiltration, reverse osmosis, or demineralization
- Elimination or reduction of suspended solids from various process water flows
- Reliable blocking of microorganisms and viruses such as Legionella, Clostridium Perfringens and Cryptosporidium



HOW IT WORKS

WATER PURIFICATION PROCESS: FROM THE SOURCE TO THE TAP

Our "plug and play" approach makes this process quick and straightforward, requiring minimal additional infrastructure. The only initial requirement is a water source. With these steps completed, the water passes through our purification system and is delivered clean and safe for consumption. This process ensures the quality of drinking water, contributing to the health and well-being of the community.

Mobile water filtering station

Customized, prefabricated water and wastewater treatment facilities and systems built to specifications.



STEP 1:

Sampling from the water source

The first step is to obtain a sample of water from the selected source, whether it be a river, well, lake, or sea. This sample provides crucial information about the initial quality of the water and the contaminants present.

STEP 2:

Assessment of water quality through laboratory analysis.

The collected sample undergoes comprehensive laboratory analysis to assess its quality. Various parameters are examined, including the presence of bacteria, minerals, heavy metals, and other contaminants.

STEP 3:

Adjustment of the purification plant components

Utilizing the analysis results, we tailor the components of our purification plant to match the specific conditions of the water source. This may involve modifications to filtration, disinfection, and other processes to address identified contaminants.

STEP 4:

Installation of the module

After all relevant tests have been conducted, the station will be ready for installation and will be immediately operational.

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