

- Remon

# Ultrafiltration



**REMON**  
passion for water



# Remon provides various water treatment solutions for a wide range of sectors. From well drilling to ultrapure water, Remon takes care of your complete water supply from start to finish.

## - What does

### Ultrafiltration do?

An ultrafiltration system performs the process of ultrafiltration, in which liquids are forced through a special semi-permeable membrane to block impurities and particles. The permeability of the membrane is controlled based on the size of the particles. The liquid to be purified is pretreated and then pushed through the membrane under pressure, causing particles larger than the membrane pores to be retained. The membrane is selective, allowing only particles below a certain size to pass through. Larger particles are captured on the retentate side of the »

membrane. These retained particles, such as bacteria, viruses, and other impurities, remain behind. The purified product, known as the permeate, flows on the other side of the membrane and consists mainly of water molecules and small dissolved substances. Ultrafiltration systems are used in water purification, the production of ultrapure water, wastewater treatment, food and beverage filtration, and various industrial processes where the removal of specific particles is essential.

“ The new purification system meets all requirements. ”

Ron de Bruin from Beaphar

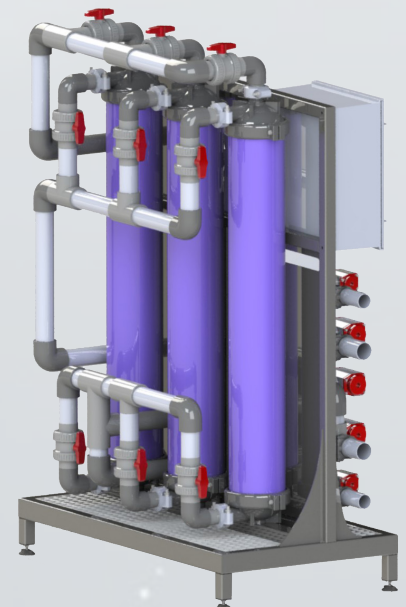
## - Remon Water treatment proudly presents to you

### TITAN® UF Ultrafiltration

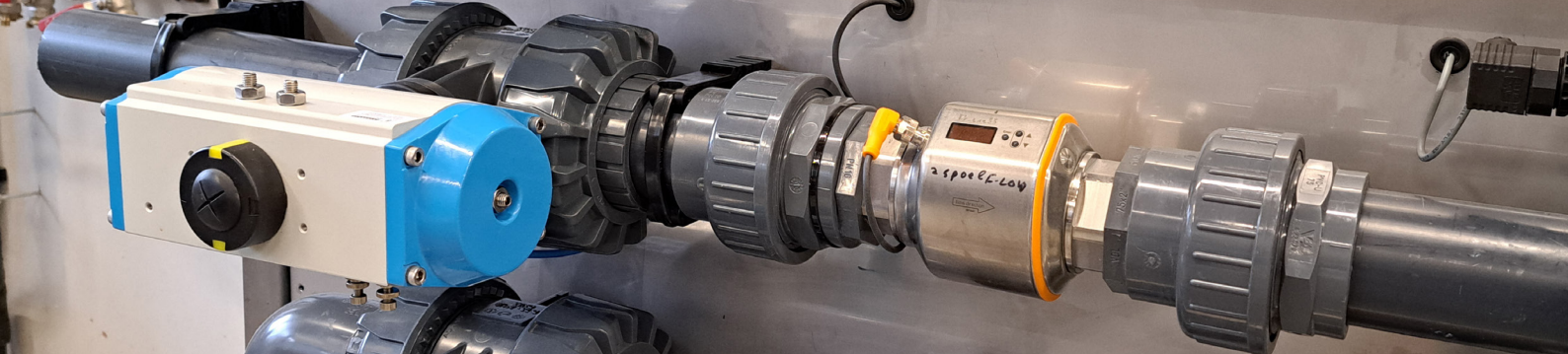
The TITAN® UF is Remon's latest innovation. This advanced purification system can treat almost any type of water. With TITAN® UF ultrafiltration, surface water can be effortlessly purified and freed from suspended solids, clay particles, humic substances, sludge, bacteria, and viruses. The result is sterile water.

TITAN® UF is also highly suitable for purifying recirculation and drain water in the greenhouse horticulture sector. There is no need for additional disinfection, as the purification modules provide LOG4 virus removal and even LOG5 removal for bacteria.

Furthermore, the TITAN® UF is ideal as a pretreatment for surface water before reverse osmosis or nanofiltration. It enables the purification of fresh, brackish, and even saltwater to drinking water quality.



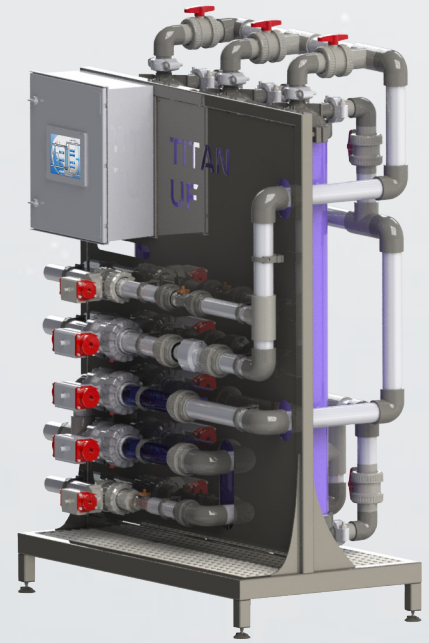
Remon has been a reliable partner in the field of water treatment for over 40 years.



## - This is why you choose the Titan® ultrafiltration From Remon

- ✓ Online operable and controllable
- ✓ Modularly expandable
- ✓ Built with NX ultrafiltration modules
- ✓ Suitable for various applications
- ✓ Log 4 disinfection for viruses, Log 5 for bacteria
- ✓ Disinfection without steam or UV
- ✓ Pretreatment for RO or nanofiltration

**Effortlessly purifies your surface, recirculation, and drain water.**



## - Self-cleaning system with visual monitoring and PLC control

After suitable pretreatment (strainer + sand filter or disc filter), the water can be directly fed through the TITAN UF, where it is purified by special hollow fibers; clean water passes through the membrane fibers, while dirt remains inside. Once enough dirt has accumulated, the machine initiates a cleaning cycle using a flush pump and flush tank, rinsing the fibers and preparing the system for further use. The transparent flushing pipes provide visual monitoring of the cleaning process.

Due to the dead-end filtration technique, thorough backwashing is required. First, the machine cleans the fibers from bottom to top; then it flushes them from outside to inside, ensuring the pores in the fiber walls are also cleaned.

The machine is equipped with the most modern sensors and measuring instruments. This allows smart communication with the touchscreen control interface, which can be accessed online and supports remote operation. When connected to the internet, you or Remon can monitor and fully control the machine anytime and anywhere. The pneumatic ball valves required for operating the machine are of high quality and are controlled via the PLC. A compressor is also included.

**Visit our website [www.remon.com](http://www.remon.com)**

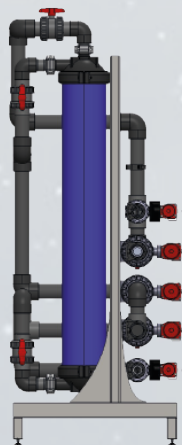


**- Sleek finish and High quality**

The TITAN® UF is neatly assembled on a stainless steel skid, with operational components such as the control cabinet, flow and pressure sensors, and air-operated valves all mounted on the front side. The filtration membrane modules are positioned at the back. For servicing, the modules can be individually isolated using the integrated ball valves. The flow meters and pressure sensors are of high quality, with analog signals ensuring accurate recording of pressure and flow. The stainless steel skid is equipped with fiberglass grates, providing a polished finish.

The purification modules come from NX Filtration. Produced in the Netherlands, NX filtration modules are recognized as top-quality ultra-filtration elements. For Remon Waterbehandeling, using NX filtration elements is a given. Only the best is good enough!

Technical specifications	
<b>Control system:</b>	Via PLC (for control and monitoring system).
<b>Operation:</b>	Via 7 inch color-touchscreen.
<b>Construction:</b>	Stainless steel framework.
<b>Power supply from:</b>	Triplex ring filter.
<b>Modules:</b>	1 to 3 membrane modules, optionally expandable with an external skid.



**- Water is our passion That is why you choose Remon.**

Every situation is unique. Every water system is too. Since no location is the same, each case requires a tailored solution. At Remon, we understand that.

To serve you well, your contact with Remon starts with a conversation with our internal sales team. From there, you will be connected to our experienced and specialized field service staff. They will work with you to select the right water system that meets your specific water requirements.

Once the purchase is confirmed, our project preparation team will begin designing and assembling a custom purification system for you. Afterward, the system is installed, commissioned, and delivered turnkey, ensuring years of trouble-free purified water.

That is what we mean by *'passion from water'*

**- Everything in-house Remon's installations**

Because we believe only the best is good enough, we often manufacture our installations in-house. This way, we ensure the exact quality we aim to deliver. We build everything ourselves, use our own molds, create our own schematics, program the computers and online connections, and handle installation and maintenance personally. Only by doing this can we consistently produce water of any desired quality.

**REMON**  
passion for water

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