

- Remon

Deferrization systems



REMON
passion for water



Remon creates high-quality water treatment systems tailored to your water needs. Based on our vision and experience, we have been providing water for plants, factories, humans, and animals for over 40 years.

- Over 40 years of experience with
Open deferrization

At Remon, a deferrization plant is an open purification system in which well water (groundwater) is atomized at the top of the filter tower. The presence of oxygen oxidises metals like iron and manganese in the back of the filter package. If the filter pack is saturated over time, the backwash system is automatically activated. A reverse flushing cycle, in combination with gusts of wind, ensures that the filter package is cleaned and ready for further purification. Remon started the production of the first real 'fully automatic' deferrization plant more than 40 years ago.

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

- Your own (miniature) drinking water company ready for the future

More than 40 years of experience come together in our latest open-ended deferrization systems. Computer control, online operation, and the latest type of pumps make these machines future-proof.

With our open deferrization plants you can enjoy clean and clear water, free of iron and other impurities. Whether you have a private home, an agricultural business or an industrial complex, our facilities offer reliable and effective water treatment for a variety of applications. The technique used is the same as at the large drinking water companies: open oxidation. This technique removes gases from the water source, adds oxygen to the water, and removes oxidable substances like iron and manganese from the groundwater.

“ Because of Remon we are always certain of our water ”

Hans Nagelvoort - RCN de Roggeberg

Our installations are equipped with advanced control systems and special media that effectively remove iron particles, even at high concentrations. This ensures that water meets the most stringent standards and guidelines. Through our FLOW technique, we can set up multiple machines in parallel, so that during flushing, there is always enough water available and no intermediate buffer is required.

In addition, our open deferrization plants are very efficient and user-friendly. They are designed to work automatically and require minimal maintenance. No more adding salt, and with a properly dimensioned system, you never have to clean pipes again. This saves you valuable time and energy, allowing you to concentrate on other important tasks.

Visit our website www.remon.com



- One machine for each Waterdemand

|| when you choose Remon you
choose quality ||

Koos Holtjer - pluimveehouder

The open deferrization installations by Remon are versatile and can be used in multiple ways. Such an installation can be applied in a single setup or, in the case of an intensive purification demand, in series. For a larger water demand, installations can be placed in parallel.

Single Line-up:

The installation is directly connected to the waterwell, and with an underwater pump or an above-ground pump, the water is pumped directly into the installation. Here, the water is atomized, and iron and manganese are oxidized, allowing the watersource gases to escape, and the oxides are captured. At the bottom of the installation, the water is pumped away and transferred to the point of consumption.

Serial line-up: :

In the case of water that requires an even more intensive purification for iron and manganese, multiple (often 2) installations are placed in series, one after the other. This allows for a slightly higher flow than a single setup, and the purification intensity is increased. The two installations are controlled from a single control panel.

Parallel line-up:

If the water demand is higher than the capacity of a single machine, it is possible to choose to place multiple machines next to each other. The source pump is then configured like a hydrofoil, and the installations 'tap' their water from the source pump themselves. In this way, capacities of more than 100 m³/h can be achieved without compromising the quality of the purified water. For larger systems, the FLOW technology is often used with a central pump set to keep energy consumption as efficient as possible.

- That's why an deferrization system from Remon

- ✓ Raised filter towers
- ✓ Air pressure protection
- ✓ Automatic flushing system
- ✓ Online operable and controllable
- ✓ 24/7 Service for continuous water
- ✓ Capacity up to 100 m³ per hour thanks to FLOW system
- ✓ No salt consumption
- ✓ No need for an intermediate basement in industrial systems



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- De ontijzeringsinstallaties van

Remon

R710

The R710 is the successor to the R 700. With energy-efficient pumps, improved technical components and proven REMON quality, it forms a water treatment plant that can treat large amounts of spring water that contains iron and manganese on a daily basis. This is ideal if you need more than 1,000 m³ per year. Reliable, safe, low maintenance The PLC (Product-Logic Circuit) control is at the heart of the R710. The intelligent control technology controls the R 710's operating processes, monitors the functions, and ensures optimum safety. The result: effective and energy-efficient treatment/purification of your source water with a consistent quality.



REM3000

The REM3000, the result of three decades of REMON expertise and advanced communication technology, marks a new stage in water treatment. This successor to the REM2000 deferrization plant efficiently removes iron, manganese, methane and hydrogen sulphide from spring water. The process enriches the water with oxygen, resulting in an excellent taste. The intelligent REM3000 manages all processes independently and in an environmentally friendly way, while simple operation and numerous features ensure top performance for high quality drinking water.



REM4000

The Rem4000NT is Remon's largest deferrization system, with a capacity that easily reaches up to 6 m³. The Rem4000 consists of a single-walled PE filter tower, ensuring maximum reduction of water costs while maintaining optimal quality of groundwater. The system reduces (residual) iron and harmful gases in the water through intensive aeration. This professional installation is equipped with a mechanical ventilation system for air intake and exhaust. The Rem4000 is highly suitable for heavy water consumption and is ideal for a series or parallel setup.



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- **Remon deferrization plants compared to other suppliers.**

Technical advantage

Online and touch screen

Our deferrization plants are equipped with a fully digital operating system. All processes can be operated and monitored online. Because everything can be traced, we can perfectly adjust the installation to your water quality and water consumption. As a result, the plant will purify water even more efficiently.

Elevated filter tower

All Remon deferrization plants are available with an elevated filter tower. This makes the water optimally aerated and oxygenated.

Double-walled and integrated drip tray

The REM3000 is standard double-walled and equipped with an integrated drip tray. This prevents condensation on the outside and the floor will not become wet.

Automatic flushing system:

Remotector An integrated sensor measures exactly when the filter bed is saturated. This ensures that the installation never flushes too often and no energy is wasted. Many deferrization installations in the market are pre-set and flushed at these times. It is difficult to calculate exactly, therefore, these systems flush sixty percent more often than a model that is equipped with the Remotector.

Air pressure protection

In the event that a fault in the air compressor occurs, the installation is put into standby mode until the fault is resolved. Many other deferrization plants continue to operate, with all the consequences this entails.

High level protection

If the drain line becomes blocked and the installation cannot get rid of its flushing water, the installation automatically switches to standby mode until the fault is resolved. Therefore, you will not be at risk of water damage due to flooding of the filter tower.



Strong as iron in iron removal



- **The most reliable**

Water purification with NT

All Remon iron removal systems are equipped with smart control featuring network technology. This NT (Network Technology) control allows you, as a user, to fully visualize, operate, and read the machine's operation in a graphical interface. Remon can log into the installation, read, adjust if necessary, and operate it remotely when connected to the internet or a 4G modem.

Due to its multi-layered structure, users can safely read the menu and perform certain actions. However, since no treated water is the same, every water purification need is unique. Remon can open the entire menu using a login code, allowing the machine to be fully configured to the specific customer's situation.

Any malfunctions are indicated on the screen and can be reset, even remotely via the internet. In practice, you may not even notice an issue with the machine because Remon's service department often resolves it remotely, sometimes even at no cost.

Remon's Network Technology can often be integrated into existing management systems using TCP/IP or through a secure network viewer accessible worldwide via the internet. By using water purifications with NT, you truly have the most reliable water purification!

- **Water is our Passion**

That's why Remon should be your choice

Every situation is unique. Every water plant too. Because no place is the same, every situation requires its own solution. At Remon we understand that.

To be of great service to you, your contact with Remon starts with a conversation with our customer service. From here, you will be brought in contact with our experienced and specialized field representatives. They are able to select the right water installation with you, to ensure that the water meet your needs.

Once the sale is closed, the work preparation will begin and a custom water treatment will be prepared and assembled for you. Then the system is installed, commissioned and turn-key delivered for years of trouble-free purified water.

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

- **All in-house**

The installations from Remon

Because we believe that only the best is good enough, we often manufacture our installations in-house. Only then can we achieve the exact quality that we aim to deliver. We build everything ourselves, have our own molds, create our own schematics, program the computers and online connections ourselves, and install and maintain everything ourselves. Only in this way can we consistently produce water of any desired quality, ensuring a constant standard.

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