

# *Rielli*

**WATER TREATMENT PLANTS**





# **Rielli**

## **Profit generating, innovative, environment friendly...**

Kazancı Environmental Techniques was founded in 1993 in the environmental industry particularly for the purpose of rendering engineering and contracting services in water treatment and recycling. With our team committed to the principle of acting with an environmental awareness and never losing their devotion and enthusiasm from the very first day, our company became a leader in the industry in short time with your trust and support.

Aware of our accomplishment and the responsibility we assume, our only goal has always been to improve the standards in the industry.

We also had the importance we attach to our work and the quality of our products approved by being awarded the following certificates from the institutions each authorized in their own areas.

- ISO 9001:2015 Quality Management System certificate establishing our standards in company management
- CE certificate proving that when appropriately used, our products shall not pose any risk to the user.
- TSI Service Qualification Certificate
- ISO 14001:2015 Environmental Management System certificate proving the importance we attach to the environment.
- ISO 45001:2018 Occupational Health and Safety Management System certificate proving our company's compliance with the Occupational Health and Safety standards.

In parallel to our accomplishment in Turkey, we successfully offer our brand also to the global market in every platform and every project abroad.

Each project we complete is the greatest source of success and pride for us. Our only wish is to meet you in joint projects.





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# REVERSE OSMOSIS (RO) PLANTS

[rielli.com](http://rielli.com) > reverse osmosis plants > for detailed description, please scan the QR code. >





## REVERSE OSMOSIS (RO) PLANTS

All components and software used for the Rielli reverse osmosis plants are supplied from specially selected manufacturers directly and in high quantities and for fair price.

The Rielli Reverse Osmosis System earns when you buy and improves your competitive power with the equipment integrated by the Rielli engineers and experts working under an experience and corporate culture of 28 years.



reverse osmosis system for drinking water production

### Blue Line Reverse Osmosis System

Drawing attention with its esthetical design, the Rielli Blue Line Reverse Osmosis Systems are of suitable size and portable for limited areas with its ergonomic design. While it is capable of being monitored from two separate digital and analogue displays, it enables all controls with single touch with its wide digital display.



Remotely controllable using all your devices through cloud technology, the smart Blue Line Reverse Osmosis Device is more economic when compared with other reverse osmosis devices in addition to all of its other advantages.



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# MEMBRANE BIOREACTOR PLANTS (MBR)

[rielli.com](http://rielli.com) > [membrane bioreactors plants](#) > for detailed description, please scan the QR code. >





## MEMBRANE BIOREACTOR PLANTS (MBR)

Rielli Membrane Bioreactor Plants (MBR) enables advance biologic treatment of water by combining biologic wastewater treatment with submerged membrane technology.

The MBR technology is one of the most suitable solutions for enhancing the capacities of existing wastewater treatment plants without requirement of further construction.

5-years guaranty

### MBR Modules

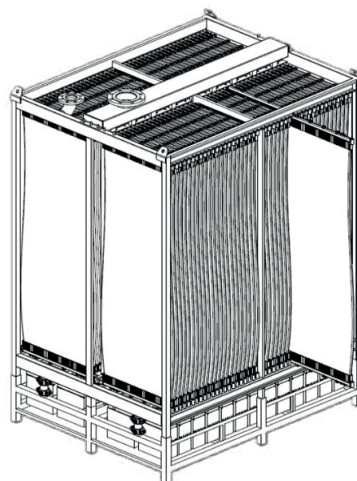
MBR membranes operating with high efficiency are used in Rielli MBR plants. The membranes are supplied directly and for fair price from Litree, the world's leading membrane manufacturer, and offered for the use of customers.

50% energy savings

**\*The MBR with the lowest energy consumption in the industry**

**MBR 6-7**

**Litree**



### Advantages

- Filtering sensitivity of 0.02
- Low energy consumption
- Long service life
- Unbreakable and non-clogging membrane structure



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MOVING BED

BIOFILM REACTOR (MBBR)

[rielli.com](http://rielli.com) > [moving bed biofilm reactors](#) > for detailed description, please scan the QR code. >





## MOVING BED BIOFILM REACTOR [MBBR]

Used in domestic and industrial wastewater systems, the MBBR (moving bed biofilm reactor) a simple structure system installed using thousands of moving polyethylene biofilm bearing chips added into a treatment tank without requirement of a further plant installation or construction.

### **Rielli** MBBR Plants

Biochips manufactured with state-of-the-art German technology with proven quality and efficiency by many scientific articles are used in Rielli MBBR plants. Thanks to these special chips with an active surface area of  $4850 \text{ m}^2/\text{m}^3$ , high efficiency plants can be established using  $\frac{1}{4}$  area of a standard MBBR in addition to the advantages of the known MBR plants.

Smaller basins can be designed when compared with precedents in the plants using the biochips .

**MBBR established using biochips with the highest active surface area.**



### **Advantages**

- Simple operating system
- Easy capacity enhancement
- Low initial investment cost
- Space and cost saving
- Stable nitrification



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# ULTRAFILTRATION PLANTS [UF]

[rielli.com](http://rielli.com) > ultrafiltration plants > for detailed description, please scan the QR code. >





## ULTRAFILTRATION PLANTS [UF]

These are units used for treating the particles and turbidity such as SS (suspended solids) and removing microorganisms in water by filtrating through a special membrane with a precision of 0.01 micron.

With the smallest pore size in the industry thanks to its filtrating sensitivity of 0.01 micron, Rielli Ultrafiltration Units hold and stop all microorganisms including SS and viruses.

The only ultrafiltration device that stops even viruses

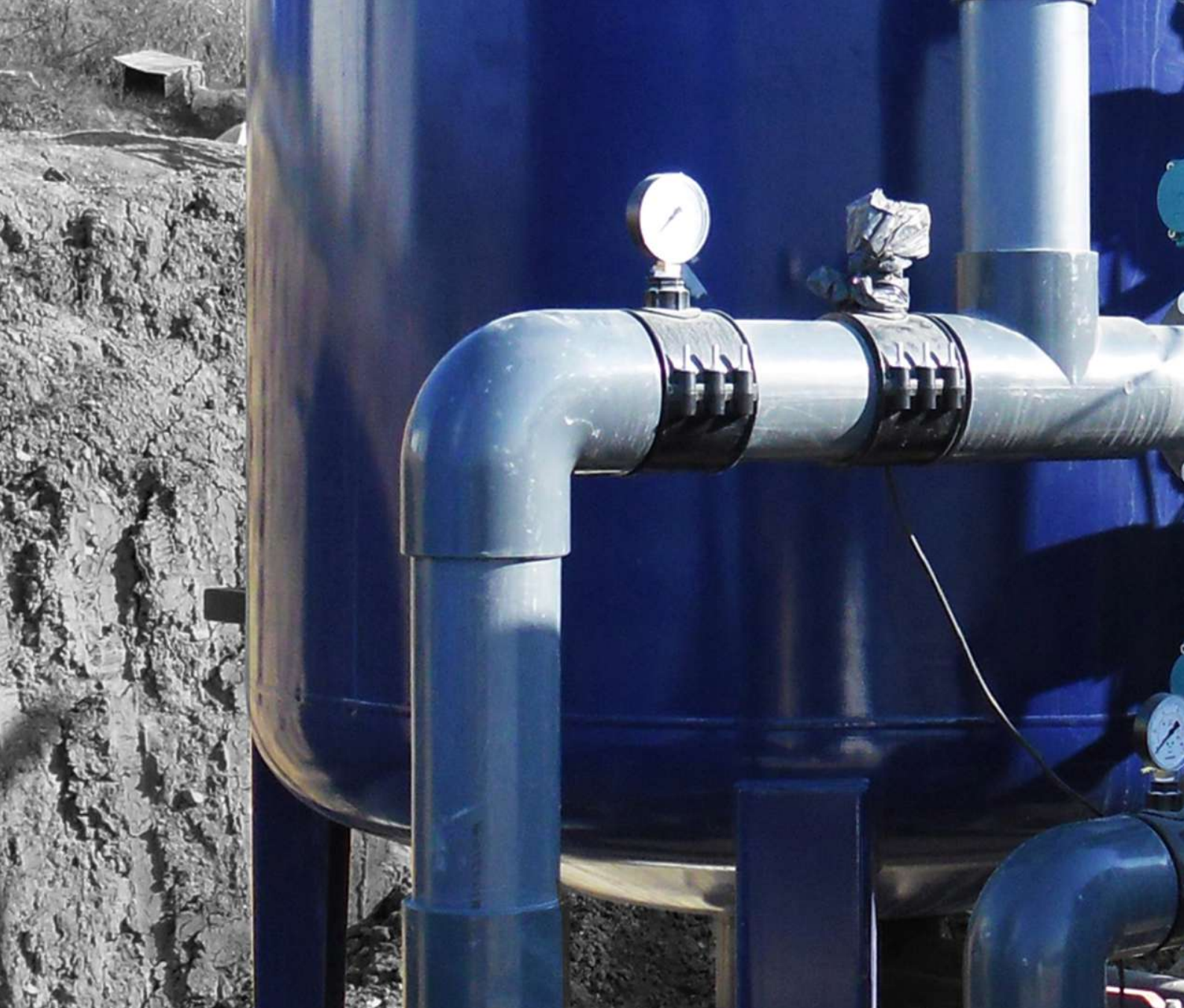
with its membrane filtrating sensitivity of 0.01 micron

Also used in recycling of wastewater, Rielli Ultrafiltration plants are usually used in treatment of drinking water, water bottling plants and particularly treatment of water before reverse osmosis.

Rielli UF Plants are manufactured by integrating highly efficient synchronized equipment specially selected for Rielli in accordance with various areas of use and application types such as immersion and pressurized, inside-out and outside-in flows.

**The UF plant with the most precise pores**

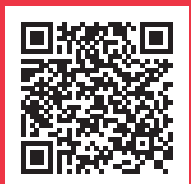




***Rielli***

# WATER SOFTENING AND DEMINERALIZATION

[rielli.com](http://rielli.com) > water softening and demineralization > for detailed description, please scan the QR code. >





## WATER SOFTENING AND DEMINERALIZATION

Providing continuous softened water, Rielli tandem water softening systems,

Protects devices and installation against limescale, extends economic life.

Enables two types of time and flow rate control with digital display valve feature.

Valves with long economic life requiring less maintenance.

Operable at high flow rates and backwash waters.

Prevents energy loss by improving effectiveness of installation and helps reduce costs.



In a water treatment system, filters essential for improving effectiveness of subsequent stages, when correctly selected, reduces load of successive systems, improves efficiency of the device and decreases costs.

Thanks to strategic co-operations of many years, Rielli softening filters are supplied directly from the manufacturer at high quality and for fair price.

All equipment used in the Rielli water softening and filtration devices are manufactured fault-free by passing all functionality tests including compatibility and exceptional actions at many quality and integration stages until the final product.



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# ELECTRODEIONIZATION PLANTS (EDI)

[rielli.com](http://rielli.com) > [electrodeionization plants](#) > for detailed description, please scan the QR code. >



## ELECTRODEIONIZATION (EDI)

With the Rielli EDI devices, you can generate the water required for your business safely and at a purity level of 18500 Mohm.

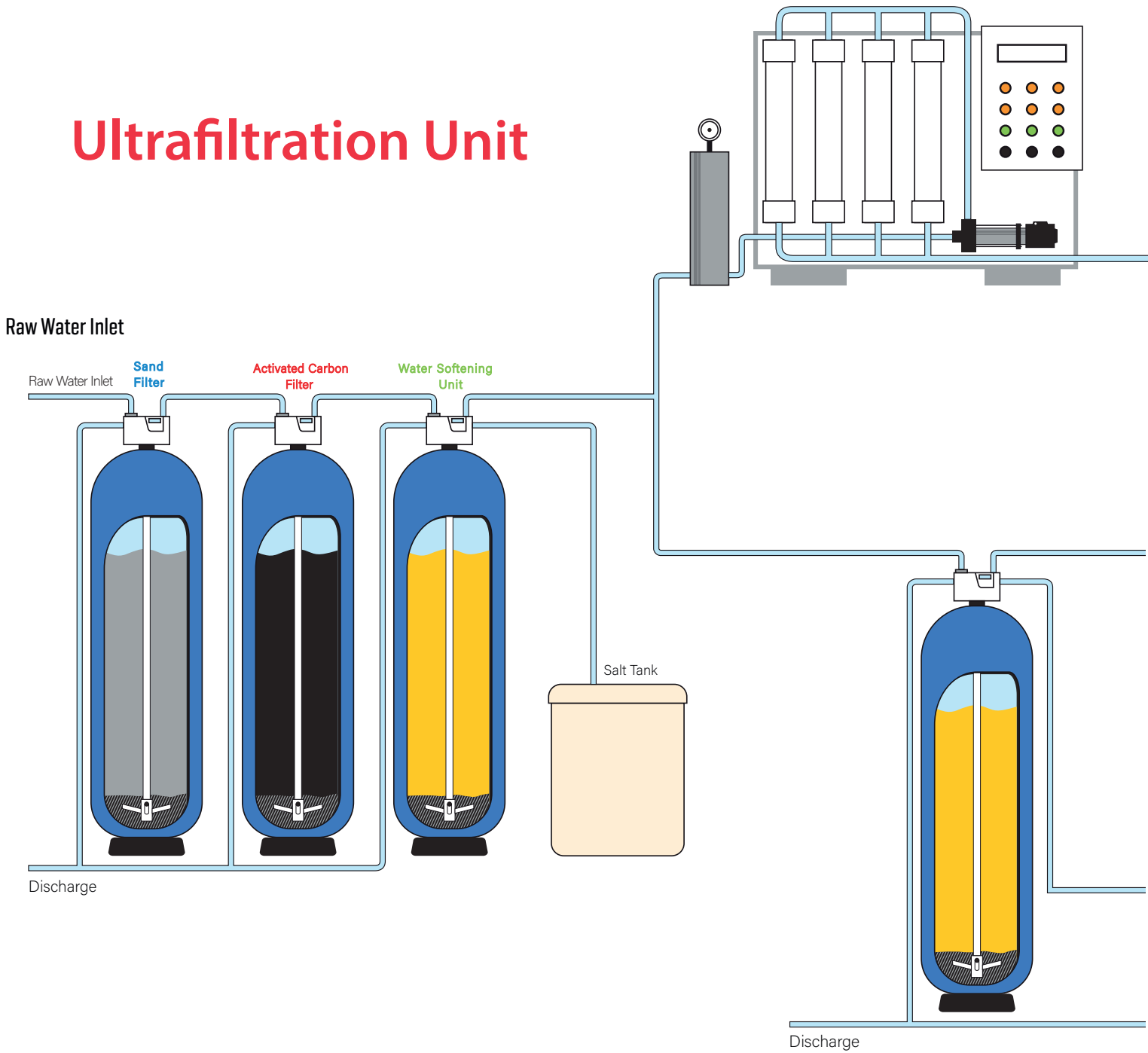
We are striving for offering the state-of-the-art technology with our products specially manufactured for Rielli and compatible with each other, supplied from Evoqua, the world's leading EDI module manufacturer and the know-how transferred to us.



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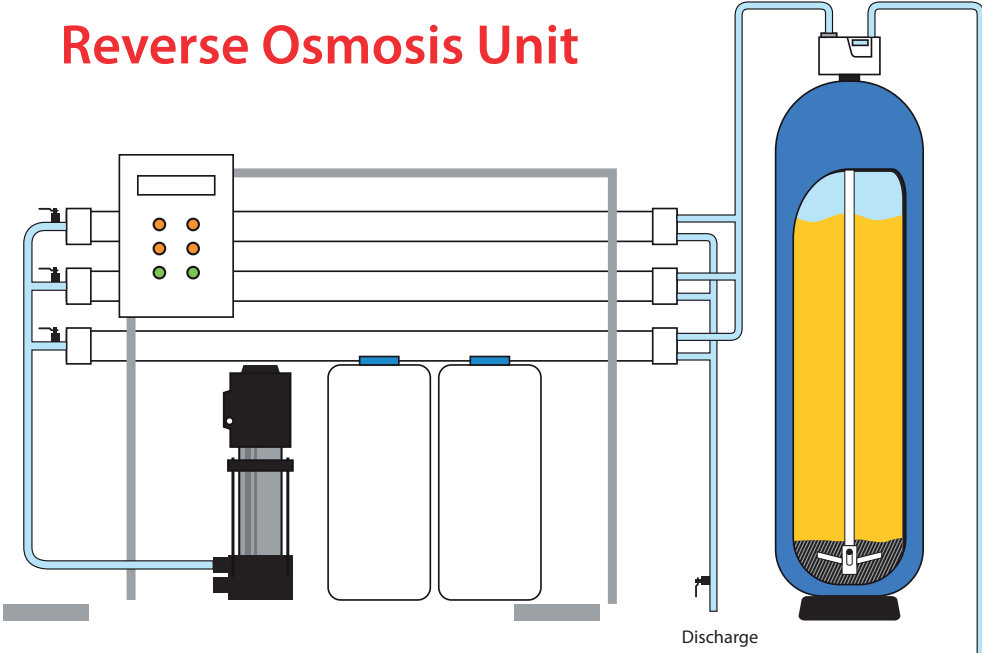
# TREATMENT UNITS

## Ultrafiltration Unit

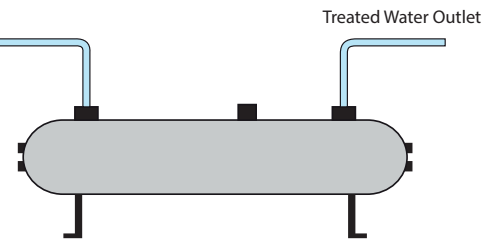




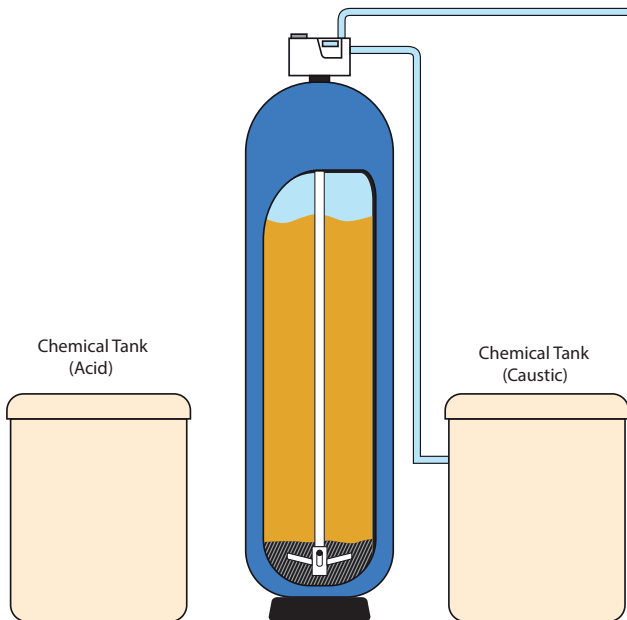
# Reverse Osmosis Unit



# UV Unit



# Deionization Unit



# OUR SOLUTIONS

Industrial Process Water  
Generation



Drinking Water Generation  
from Seawater

Grey Water  
Recycling





## Drinking Water Generation



## Greenhouse and Soilless Agriculture Applications

## Process Water Generation from Wastewater

## Recycling of Filter Reverse Wash Water

CONSTANT INNOVATION

# INNOVATION

INNOVATION ALWAYS

- Innovative approach
- Distinctive design
- Product diversity

Our team continues to break grounds in their industry as the leader of the advancing technology.

We care about the world we live in when designing the systems and reflect this spirit to each system we manufacture with environmental awareness.

We excellently analyze the demands of our customers and improve our product range with each product and system we import and manufacture day by day with prospective accurate predictions.



R&D

# ENGINEERING

HIGH QUALITY

- Quality first
- Solution-oriented approach
- Customer satisfaction

Our team diligently offers you the distinctions of their quality approach in every product they design and every service they render.

We act according to your needs and fulfil the responsibility we assume throughout the entire process from the manufacture to sale and to on-site installation of the systems.

We offer you timely, rationalistic and permanent solutions..



EXPERIENCE

# TECHNIQUE

- Laboratory services
- Turn-key projects
- After-sale services

Starting from the estimation, we analyze the water samples we take during our after-sale service visits free of charge at the laboratories we have established to serve you better. We offer you turn-key projects with an approach of the service quality based on professionalism.

With our technical service team formed of qualified employees, we support you in meeting the demands such as operation, periodic maintenance and replacement of already installed systems.

# 100% RELIABLE

## MANUFACTURE

Each product we manufacture under Rielli brand is manufactured with a durability to serve you for many years using state-of-the-art technology.

Every product we manufacture first passes all of the quality and durability tests at our factory and then offered for your use. Collaborating with our manufacturing unit, our R&D department enables us offer you quality and economic products utilizing technologic advancements.



## REFERENCES

### Reverse Osmosis Plant for drinking water generation in Libya

Capacity: 40 cbm/hour



### Package MBR established for Saudi Arabia

Capacity: 320 cbm/day

### Grey Water Treatment Systems manufactured with various sizes for Jordan

Capacity: 20 cbm/day



### Reverse Osmosis Plant for drinking water generation in Turkish Armed Forces Base in Somali

Capacity: 10 cbm/hour

### Cube Line RO Plants specially designed with stainless steel panels and membrane housing for the Middle East.

Capacity: 0,47 cbm/hour and 0,24 cbm/hour



29 years  
experience

specialized  
staff of  
engineers

special  
financing  
facilities

fair price  
solutions from  
manufacturer

use of  
advance  
technology

unique  
user  
experience

***Rielli***

loyalty-oriented  
corporate  
culture

**Rielli**

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