



**Reliable and Trustable
Water Treatment
Machineries Supplier**



About Us

Aqua Experts Water Treatment Company is a leader in designing, Producing and Installing water treatment Machineries since 2019 in the United Arab Emirates, provides technical solutions for treating primary sea water, brackish water, well water, surface water and waste water utilizing membrane separation technologies – microfiltration, Ultrafiltration, Nano filtration, Reverse osmosis & CCRO – together with chemical conditioning and mechanical filtration producing high quality drinking water and desalinated pure water for industrial, Hospitality, F & B and agricultural purposes. Aqua Experts meets the need of innovation and reliability of large and small producers all over the world.

The distinguishing characteristics, enabling Aqua Experts to reach an International audience, are the design skills and the product expertise that suit the specific needs of each individual customer. We know that every producer is unique: we do not only design standard machines, but most of all custom-built plants-innovative solutions developed by our Research & Development team to meet various needs.

Vision

Enhance the quality of products, prosperity, and habitats through the implementation of water treatment engineering.

Mission

Provide innovative and hygienic water treatment engineering services.

Values



Integrity

We are professional, honest, and transparent in our business and uphold moral principles



Quality Engineering

We provide high-quality engineering services to fulfill customer demands



Client Satisfaction

We engage our clients and the communities we serve so that they know us, trust and value our services



Technical Innovation

We develop adequate engineering solutions through research and development



Employee Loyalty

Our success stems from our unwavering commitment to attracting and retaining highly skilled and dedicated employees



Why Aqua Experts

- Highly qualified and well experienced team of engineers, consultants and
- Expert consultancy
- Uncompromised quality assurance
- 100+ Installation Across various regions in UAE
- Remote supervision to ensure smooth processing
- Innovative and updated methodologies
- Timely Maintenance and complete support

**Ensuring Purity,
Sustaining Life**



Services

Water Treatment System

we specialize in providing innovative water treatment machineries that is customized to satisfy the unique demands of various industries.

Measurement Devices

Offering complete measurement, analysis and maintenance solutions to meet automation and monitoring goals, our portfolio facilitates advanced quality management in water abstraction, treatment and distribution, including documentation management, instrument verification, and maintenance strategies, for optimal risk management and water safety.

Filling and Packaging

Aqua Experts operates 360° in the design and manufacture of complete Bottling lines for Packaging & Filling with customized solutions and a precise philosophy: High performance, high reliability and ease of use For 5 Gallon, PET & Glass Bottling Industries.

Water Treatment Sterilization Filters

We provide innovative sterilizing filters to guarantee the highest degree of security and purity in your water treatment processes.

Industrial Automations

We offer innovative industrial automation solutions that enable companies to increase productivity, optimize processes, and operate more effectively.

Stainless Steel Tanks

We are Specialist in Manufacturing Stainless Steel Standard Tanks and customized Food grade Hygienic Tanks in water processing Industry, Dairy industry, Juice & Beverages Industry, Chemical Manufacturing, Food products manufacturing, Personal care industry and paint industry.

Disinfection System

Chlorination is the most common method of treating microorganisms in water. This method is mainly used by water utility companies to kill microorganisms in water right from the water production site up to the consumer's water tap. Aqua experts is using advance Chlorination systems as Gas chlorination, Electro chlorination, Mobile chlorination and Gas scrubber.

Products



DUPONT FILMTEC/
NITTO HYDRANAUTICS
MEMBRANE



RO SYSTEM



FRP VESSELS



GRUNDFOS PUMPS



RO VESSELS



INOXPA PUMPS



FLOW METERS



PRESSURE SENSORS AND
LEVEL SENSORS



SS TANKS EQUIPMENTS



INDUSTRIAL AUTOMATION SOLUTION



FOOD GRADE SS TUBES
AND FITTINGS



WATER LINES SOLUTION FOR
PET/ PC 5 GALLON



MEASUREMENT DEVICES
SINGLE CHANNEL/ MULTI CHANNEL



pH

ORP



DO

EC

FW

CL

PAA

Br

O₂

COMPLETE RANGE OF PROBES AND PROB HOLDERS



ULTRAFILTRATION
MODULE



FILTER HOUSINGS



SEKO DOSING PUMPS



FILTER CARTRIDGE

Industries

We cater to a diverse range of industries with our advanced and innovative engineering services



Water Industries

Utilizing advanced filtration and sterilization technologies, we help industries and communities access clean, safe water



Food & Beverage

Ensure clean, contaminant-free water and accurate devices monitoring key parameters enhances production consistency



Hotels & Resorts

Ensure exceptional quality and optimal conditions for food and hygiene



Chemicals & Pharmaceuticals

Ensuring water quality, efficiency, and environmental compatibility to meet the highest standards of the industry



Agriculture & Horticulture

Optimizing water usage and quality for cultivation, encouraging eco-friendly methods



Poultry

Enhance the efficiency and safety of operations and assures hygiene products



Residential/ Commercial Buildings

Optimize water management and precision devices ensure optimal performance



Dairy

Enhanced water purity improves product quality and Accurate monitoring improves efficiency



Power Generation

Making industry-wide improvements in water use, recycling, quality, and environmental responsibility



Universities & Research

Modern and advanced water treatment solutions which encourages innovation and water quality standards for academics and researchers

Our Partners

Our collaborations with leading industry associations ensure that we deliver top-quality solutions and stay at the forefront of industry standards.



Major Clients

we pride ourselves on delivering exceptional solutions tailored to the unique needs of our diverse clientele. Our commitment to excellence and customer satisfaction has earned us the trust of a wide range of esteemed clients across various industries.



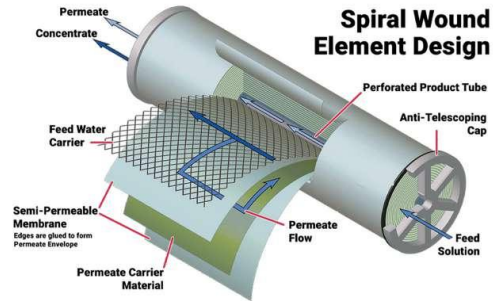
Water Treatment System

Reverse Osmosis System

Reverse osmosis (RO) is a water purification process that uses a semi-permeable membrane to separate water molecules from other substances. RO applies pressure to overcome osmotic pressure that favors even distributions. RO can remove dissolved or suspended chemical species as well as biological substances (principally bacteria), and is used in industrial processes and the production of potable water. RO retains the solute on the pressurized side of the membrane and the purified solvent passes to the other side.

Benefits of Reverse Osmosis

As a water treatment process, reverse osmosis provides many advantages, including:



- **Total Dissolved Solids Reduction**

Reverse osmosis is one of the rare water treatment processes that can boast a total dissolved solids reduction. The few other treatment methods with this capability are often less efficient than reverse osmosis.

- **Cost-effectiveness**

Reverse osmosis is popular in industrial settings because it is highly economical compared with alternative filtration methods. It allows plants to treat large volumes of water while remaining comfortably within their established budgets.

- **Eco-friendliness**

Compared with other treatment methods, reverse osmosis is also relatively environmentally friendly. It uses less energy than other methods like thermal distillation because it does not rely on energy generation. Using reverse osmosis can help a facility reduce its carbon footprint, protect the environment and do its part to curb climate change.

- **Alkalinity and Hardness Removal**

Reverse osmosis removes the calcium and magnesium ions that contribute to hard water, as well as the carbonate ions that contribute to unwanted alkalinity.

Key Projects



PLC Based Remotely Monitored and Controlled SWRO Plant



Relay Based BWRO



Relay Based BWRO



PLC Based Remotely Monitored and Controlled SWRO Plant

CCRO

DuPont leveraging RO knowledge and leadership to bring the industry a step change in filtration performance.

Why Choose CCRO?



Easy



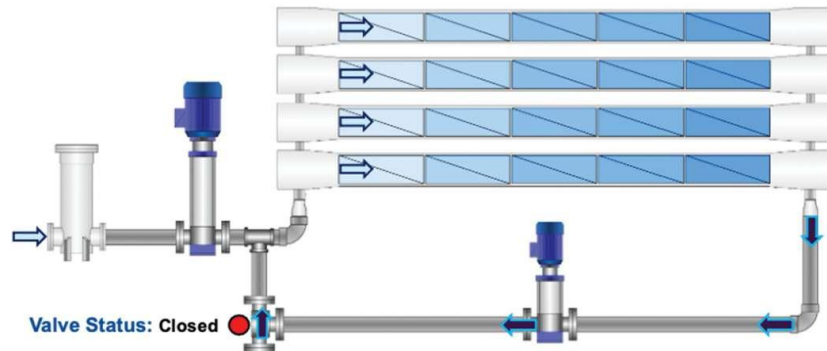
Reliable



Efficient

- Providing high recovery solutions for performance, cost, and remote/ maintenance free operations
- Autonomously adjust to extremely wide range of varying feed and operating conditions eliminating the need for expertise and constant oversight
- Typical recovery of 90-98% and 50-90% concentrate reduction save money from day one delivering rapid payback within months.

Working of CCRO



Water Filtration

Filtration helps many industrial operations through a wide variety of applications. We have the expertise and technology to provide quality filtration resources for a range of unique applications.

We provide Membrane Filtration and Housing Solutions for demanding water treatment applications. We see it as our business to help secure access to the right water quality by delivering the right filtration solution and application expertise, anywhere and anytime.

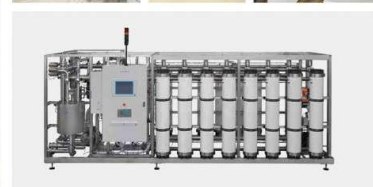
Ultrafiltration (UF): State-of-the art technology to replace an entire filtration chain and ensure maximum finished product safety

- Offers state-of-the-art Pentair water treatment solutions
- Reputable leader in the market
- Highly trained in tailoring water treatment solutions based on your water needs
- Provides exceptional customer service

Key Projects



Automatic Pre Filtration units operated from HMI



Nano Filtration

Water Softener

Stainless Steel Tanks

We are Specialist in Manufacturing Stainless Steel Standard Tanks and customized Food grade Hygienic Tanks in water processing Industry, Dairy industry, Juice & Beverages Industry, Chemical Manufacturing, Food products manufacturing, Personal care industry and paint industry.



The softeners offer by Aqua Experts is one the most complete in the industry, satisfying demands for scale reduction for flow rates and make the water soft.

With innovative technology Aqua Experts Softener systems are among the most efficient and technologically advanced on the market.



316 L SS Tanks



CIP Units



Remineralization Units

Measurement Devices

Pool & Spa

From residential pools and spas to multi-facility leisure centres and water parks, achieving the precise chemical performance that delivers a perfect swimming and bathing experience requires an exceptional water treatment solution.



Aqua Experts Solutions

- Consistently precise dosing via high-accuracy peristaltic, solenoid and motor-driven metering pumps capable of ultra-fine adjustments
- Analysis and control of key water-quality parameters to help remove and prevent contaminants such as legionella and pathogens
- IoT connectivity for unparalleled operational efficiency, with live and historic data on demand courtesy of our dedicated Web app
- Reduced running costs courtesy of premium materials that provide superior chemical compatibility and minimal maintenance requirement

Products Overview



Photometer Range



PoolFeeder



KommSpot



Dosing Pump Range



Solenoid Dosing System
Pump-Kemidose Series



Controller Range



Kontrol Guard &
Panel Range



KommBox



Blowers

PAA-Peroxyacetic Acid/ Cleaning Detergent Auto Dosing system in Food industry

Peracetic acid (PAA) is widely used as a disinfectant and sterilant in food processing. The system is automated with the only manual operation being the changeover of IBC's. These systems are very popular as they provide control measures for PAA dosing in a safe environment with very little manual input.



Controllers



Controllers

Key Projects



PAA/ Detergent Dosing System

Cooling Tower Water Treatment

Aqua Experts, as one of the most reputed cooling tower water treatment provider in Dubai and the whole of UAE, have a range of scale and corrosion inhibitor for cooling tower water treatment in order to cater to specific requirements of the chiller. Aside from our corrosion and scale inhibitors, we are a complete cooling water treatment chemical provider, we also supply biocides which are also crucial in order to ensure that our system is not contaminated and as per municipality requires establishments to ensure no bacteria such as Legionella is present in the cooling systems.

Aqua Experts Cooling Tower Dosing System makes life simpler as it is programmed so that the controller will be easier to control and operate and it has a software that utilizes an intuitive user interface. The cooling tower controller Aqua Experts supplies accurate measurement which is achieved by its toroidal probe, which is factory-calibrated and maintenance-free.



Wall Mounted Solenoid Dosing Pumps



Spring Return Plunger
Piston Dosing Pump



Spring Return Plunger Piston
Dosing Pump for High Pressure



Controllers

Chilled Water Treatment

The common air-conditioning practice used in Dubai and most of UAE is the Chilled Water System. In a chilled water system (recirculating closed loop), water is circulated throughout the building to chilled water coils where the air is passed through and is returned to the room as cooled air.

Water Cooled Chillers operate in a closed-loop system which means water is recirculated for a long period of time and only through proper water treatment can we assure that water is the preferred quality. As Aqua Experts is an expert with water treatment for chiller units in Dubai & whole of UAE, we are aware of how untreated chilled water with its impurities can cause a decrease in efficiency, increase in cost and promote breakage in equipment and pipeline by scaling, corrosion and microbial growth.

As Aqua Experts Offers Water Treatment Products and services for Treatment of Chilled Water (Closed Loop) System, we also provide dosing systems to be used for dosing the needed chemicals. Conductivity is a major parameter considered for these systems and our chilled water controllers are mostly conductivity based that doses the feed corrosion inhibitor and controls bleed as such.

Aqua Experts Chilled Water Dosing Controller is a microprocessor-based feed and bleeds toroidal conductivity controller that are designed for controlling conductivity and feed inhibitor Chilled water system.



Wall Mounted Solenoid Dosing Pumps



Controllers



Spring Return Plunger
Piston Dosing Pump



Spring Return Plunger Piston
Dosing Pump for High Pressure

Key Projects



Chilled Water System Panel

Filling & Packaging Machineries

Your machine deserves the best assistance and Aqua Experts is at your disposal for any kind of need. Aqua Experts Lifecycle Service to obtain spare parts and equipment, Technical Service for technical support and targeted interventions.

The requirements for filling technology for liquids are as special as they are varied. First and foremost, precision and flexibility are required here, because each system must be individually adapted to the needs of the respective customer and their product.

What are your needs for a bottling machine?

For a precise and gentle filling of your product we develop together with you the perfect filling machine for your specific profile of requirements. Whether 5 gallon, glass, PET : Our extensive portfolio offers the right filling solution for every type of container and every type of product in the beverage, liquid food sectors.

5 Gallon Bottling Line



Different Types of Filling Machines



Automatic Servo Piston
Filling Machine



Automatic Flow Liquid
Filling Machine



Automatic Rotor Pump Single Head
Speed Filling Machine



Automatic Quantitative
Filling Machine



Automatic Nucleic Acid Sampling Tube
Filling Machine



Semi-Automatic Single Head Powder
Filling Machine

Products



Handwashing fluid



Shampoo



Honey



Oil Bottles



Drinking Water Bottles



Skin Care Products



Sampling Tubes



Antigen Reagent Tubes



Powder Bottles



Sauce Bottles



Detergent Bottles



Food Product Bottles

Industrial Automation

PLC control system helps to realize the process and plant performance in the safe, reliable and efficient manner. With over 14 years of experience, we can provide the strategic automation solution that enable your process to operate safe and efficiently as possible. Our extensive experience together with highly skilled resources helps to deliver the control system in best workmanship and good industrial practice.

Automation is not limited to programming and graphic development, it features an integrated control system design includes defining networks, third party system integration and collaborated with process engineers to define the control philosophy and shut down/ cause & effect matrix procedure.

We partnered with leading manufacturer in PLC, HMI, SCADA and provide the integrated control system which includes the following services:

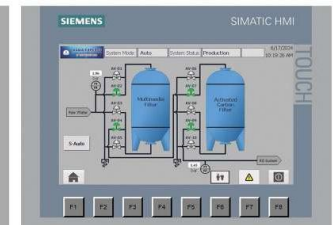
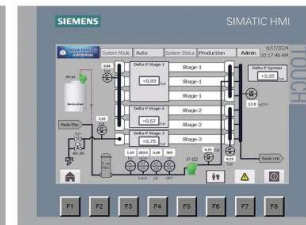
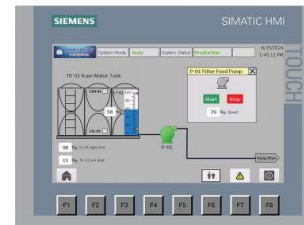
- **Control system conceptual design.**
- **Control system network design and development.**
- **Defining the control philosophy, cause & Effect matrix in collaboration with process designers.**
- **Commissioning and start-up service.**
- **Annual maintenance contract/ on-call service support.**

Now a days, most of water treatment plant runs on PLC/ SCADA control system for its safe, reliable and yet is flexible operational and maintenance features. Designing the PLC control system require deep understanding of the process includes filtration, membrane process, chemical dosing, pump control and many more. Our commitment delivers you cost effective, result oriented control system that maximizes the plant performance and operational efficiency.

Key Projects



RO Plant Control Panel



Water Treatment Sterilization Filters

Whether your challenge is capacity, flow rate or yield, Aqua Experts provides the most advanced sterile filters. Take advantage of our process optimization services to speed up your process development and complete your process validation with confidence.

Our filtration systems, using pre-filters and final filters, ensure the highest quality and microbiological purity of your water, whether it's still or sparkling, spring, mineral or purified water. Each product provides high throughput to reduce your carbon footprint with 100% security to meet your specific requirements. Match and enhance your own water-production expertise. Benefit from our expertise and experience, confident in second-to-none filtration.



Round In-Line Liquid Housing



Round Liquid Housing



Jumbo Housing



Round Housing



Round Gas Housing



Vent Housing

Disinfection System

Chlorination/ Ozone/ UV is the most common method of treating microorganisms in water. This method is mainly used by water utility companies to kill microorganisms in water right from the water production site up to the consumer's water tap. Aqua Experts is using advance Chlorination systems as Gas chlorination, Electro chlorination, Mobile chlorination and Gas scrubber

Automatic Chlorine Controllers basically can control the dosing of the chlorine by using a chlorine probe that senses the free chlorine residual in the water and adjusts dosing based on the set point which is set manually by the user. The automatic domestic water chlorine dosing system comes as a whole package consisting of the following

- **Controller** • **Dosing Pumps** • **Probes**
- **Cartridge Filter** • **Dosing Tanks**



Wall Mounted Solenoid Dosing Pumps



Spring Return Plunger
Piston Dosing Pump

Spring Return Plunger Piston
Dosing Pump for High Pressure



Controllers



Ozone Water Skid System



UV System

Key Projects



Swimming Pool Dosing System

Domestic Water Chlorination System

Warehouse

Reliable warehouse offering a wide range of water treatment machines and equipment, ensuring prompt supply and seamless distribution for industrial and commercial needs.



Assembling of Machinaries



Certifications



ISO 9001:2015



ISO 22716:2007
Good Manufacturing Practices



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Warehouse - CF3Q+99X, Ajman Industrial 1,
Ajman - United Arab Emirates

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