



# *Company profile*



## Our Main concept

We do our best in  
work to can achieve  
your ambitions  
In water technology



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# Brief & features

## Brief

We are a leading establishment with 10 years' experience in total water management systems & our qualified team is capable, experienced & well trained to inspect our products to ensure customers satisfaction.

First priority to safety & health of human resources.

Each & every employee is made responsible & trained to perform safe work.

Our professional & well experienced staff consists of over 25 employees of engineers, supervisors & technicians who are committed to produce top quality products & services in all aspects to meet or exceed customers' expectations.

## Features

**Mechanical & Electrical Production:** Produce Water & Waste Water Equipment Plants & softening systems and filtration systems.

**Chemical Production:** Produce Water treatment related chemicals & perform related analysis.

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# Our product range Chemicals

## SPECIALTY CHEMICALS

Our Specialty Chemical Division provides a wide range of products. These products are focused around providing our clients with effective cost in chemical treatment solutions.

Our team of service engineers / chemists will regularly visit the site to locate the problem source where various water samples are gathered for testing at our laboratory facilities.

Our list of Specialty Chemicals includes:

### Reverse Osmosis / Water Treatment Plant systems

- Antiscalant
- Coagulant
- Filtration aids
- Disinfectant
- Neutralizer
- Cleaning chemicals



### Boiler system

Corrosion inhibitor  
Scale control  
Sludge conditioner  
Steam treatment  
Alkalinity builder  
Cleaning chemicals

### Cooling Tower (open cooling)

Corrosion & scale inhibitor  
Dispersing agent  
Non oxidizing biocide  
Non oxidizing algaecide  
Oxidizing algaecide & biocide  
Cleaning chemicals

### Chilled water system (closed cooling)

Corrosion & scale inhibitor  
Non oxidizing biocide  
Cleaning chemicals

### Hot water system

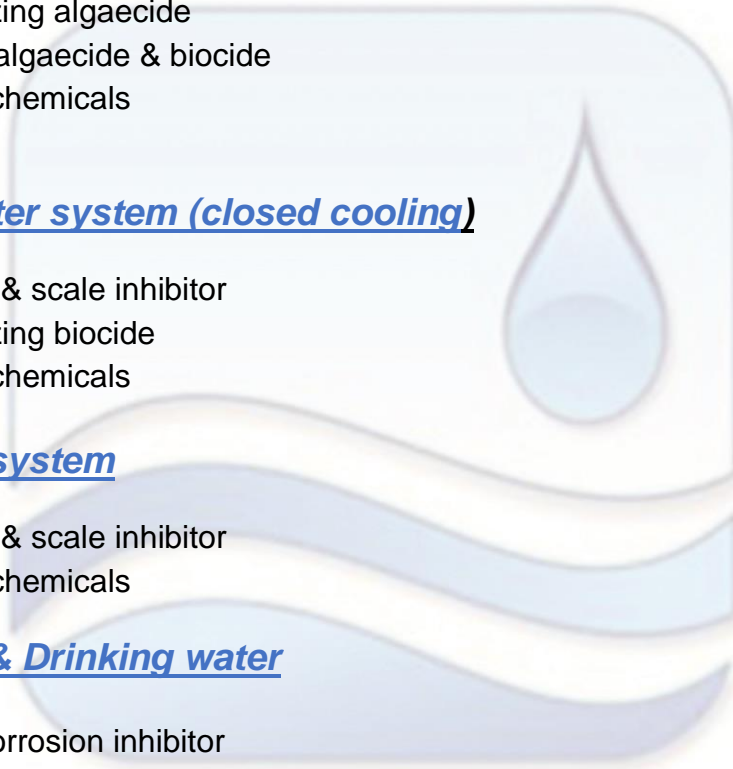
Corrosion & scale inhibitor  
Cleaning chemicals

### Domestic & Drinking water

Scale & corrosion inhibitor  
Disinfectant  
Red water control  
Cleaning chemicals  
Sterilization

### Wastewater/ Irrigation water

Odor control  
Disinfectant  
Coagulant





# Our product range

## Plants

### REVERSE OSMOSIS PLANTS

Considered as the most common technology for water desalination, our RO plants engineered based on the client's requirements and the individual water characteristics.

- Produce high-quality water
- Most modern membrane technology
- Modular design
- Low water-rejection rate
- Low operational and maintenance costs

Reverse osmosis-manufactured plants are used to produce high-quality sweet water, especially where the client looks to minimize the use of chemicals.

RO plant is used extensively in the food and beverage industry, pharmaceutical and the electronics industries usually uses a computer programs for studying the water chemistry to select the most suitable membrane configuration and in order to provide a low water-rejection rate.

Our manufactured Brackish and Seawater R.O plants are designed with unlimited capacities while our standard plants range from 5 to 20000 m<sup>3</sup>/d



## SOFTENING PLANTS

Presence of hardness salts (calcium and magnesium ions) in makeup water supplies to boilers, cooling and process waters can have a serious impact on their performance.

Loss of heat transfer in boilers, and poor cooling in re-circulating cooling systems which increase in both energy and water consumption.

Our standard range effectively removes these hardness salts and provides a valuable return on your investment.

The water softeners use the well-proven "Ion Exchange" process to convert the hard water ions of calcium and magnesium to sodium ions.

Produced water to service is typically less than 4 ppm total hardness.

Our custom made units are engineered to various capacities based on the type of application and the raw water quality.

Designed to satisfy industries and domestic demand, our standard range produces 1 to 100 m<sup>3</sup>/h of soft water.

## DE-IONIZATION & MIXED BED PLANTS

Deionized (or de-mineralized) water is water close to (water at less than 10 MS conductivity).

As such it acts as a natural solvent and is fairly unstable, wanting to dissolve minerals in order to become stable again.

Therefore, for many applications (such as hospitals, labs, production etc), it is a useful addition to ensure a high water quality.

At Advanced Water Treatment we supply a wide range of de-ionization equipment, from twin bed deionization to mixed bed cylinders.

Our DI units are engineered based on the water application and raw water analysis in order to permeate water for ultra-pure applications.

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