

An Innovative Solution for Complete Water Treatment.....



An ISO 9001:2008 Certified Company

CLEAR II ION EXCHANGE ENGINEERS II

WATER... BY DESIGN IT IS PERFECT

Water is an abundantly available but a precious gift of Mother Nature, Water a basic necessity of life, something without which we cannot exit. Unfortunately it is not always pure. Too often this water is turned from a precious gift into a dangerous element. This is due to pollution and environmental deterioration, both modern phenomena caused by increasing industrialization and by the sometimes abominable action of human beings. For this reason it is necessary to treat water today to take steps to make the water we find in nature usable. There are two important objectives to water treatment

- ❖ To use water that would otherwise not be safe for a specific application
- ❖ To dispose of pollutants from industrial process or sewage at a percentage of impurity that has been lowered to a level that is not harmful.

CLEAR ION EXCHANGE ENGINEERS

We Established in 1995 as a Manufacturing of Water Treatment Plant such as RO Plant, Filtration Systems, Ion Exchange based Water Softener and Demineralization Systems. As further expansion CLEAR Ion Exchange entered into the area of turnkey execution and total system approach by applying its extensive know-how innovative technologies & commitment to services. Thus, CLEAR Ion Exchange emerged as single source supplier of complete water purification solutions.

MISSION :

CLEARION applies state-of-the art advance separation technology to manufacture the industry's most advanced high performance water treatment plants.

At CLEARION you get the benefits of quality design, reliable components, and integrated systems fully backed with in house manufacturing and testing facility.

VISION :

CLEARION is committed to continue improvement and effectiveness of its product through quality management system. We will actively pursue our goal defect-free competitive products delivered on time, which meet or exceed our customer's requirements. Our management is committed to providing our employees with the necessary resources and environment to carry out these goals. These resources will be focused primarily on the prevention of defects, meeting our customers' needs, and continual improvement.

Our commitment goes beyond simple contracts. We build long-term relationship with our customers and provide the best solutions to optimize water management on continuing bases. We keep on building our key strengths with our technological expertise and our ability to offer innovative and integrated solutions to our customers' economic and environmental needs on a national scale.

FILTRATION SYSTEM



The filtration packages are offered in M.S/MSRL/SS 316 and (FRP) Fiber glass reinforced plastic pressure vessels as per client's requirement. The options available are manual and automatic with MS/SS 316 / FRP or extra strong engineering grade plastic pipes depending on applications.

WATER SOFTENER

Softener are available as up flow & down flow types. Standard softener model ranges from 1.0 M³ to 100 M³ and custom built units for higher flow rates. Necessary salt preparation tank with injection systems is also offered with the system. also offers Automatic and Semi-Automatic Water Softener as per Customer requirement.



DEMINERALISATION SYSTEM / MIXED BED



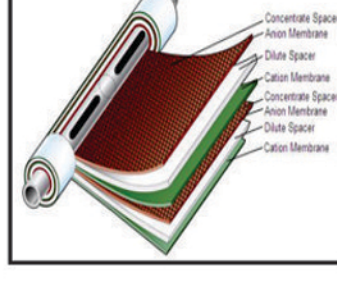
D.M water System in dual column with or without Degasification system and also small trolley mounted units for small industrial as well as laboratory application. Mixed Bed Deionisers are designed to produce high purity treated water required by the pharmaceutical and electronics industries. These Deionisers can be used as polishing unit after two bed Deionisers or directly, to obtain high purity water.

SWIMMING POOL FILTRATION

Commercial and municipal swimming pools need trouble-free and long-lasting filtration system the virtually eliminate down time and maintenance troubles. we understands this and offers high quality swimming pool filtration systems that are engineered with the customer in mind. Our advanced Swimming Pool Filtration Systems are custom designed and built to fit each individual application. Swimming pools are common to universities, public and private school, hotels, bungalows, club and so on.



ELECTRODEIONIZATION (EDI)



Electrodeionization or EDI, is a continuous and chemical-free process of removing ionized and ionizable species from the feed water using DC power. EDI is typically used to polish reverse osmosis (RO) permeate and to replace conventional mixed bed ion exchange, which eliminates the need to store and handle hazardous chemicals used for resin regeneration and associated waste neutralization requirements.

PACKAGED DRINKING WATER



We Provide total Turnkey Project for Package Drinking Water Like R.O.Plant, UV System, Ozonation, Oxygen Machine, SS Tank, And other Accessories

We Also Provide Standard Machinery For Pouch Packing, Glass Packing, Automatic Bottle Washing-Filling-Packing Machine 20Ltr. Jar Washing And Filling And Capping Machine.

We Also Providing Consultation Services for ISI Certification And Providing Laboratory Equipment As Per ISI Specification.

COMMERCIAL / INDUSTRIAL RO SYSTEM



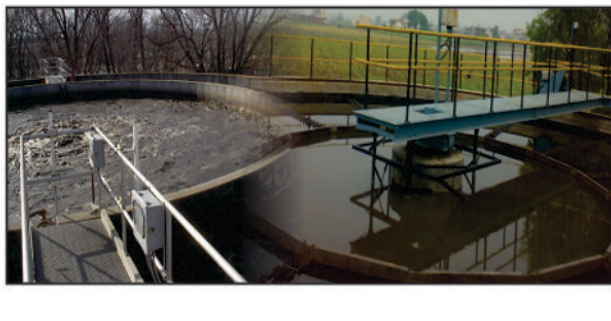
EFFLUENT TREATMENT SYSTEMS

At CLEARION we have developed technologies to help improve the environment. Our environmental division is actively engaged in offering solution for cleaning of polluted water which is on increasing level due to the growth in industry & population.

We at CLEARION offer equipment systems & turn key projects for waste water treatment. We cater to domestic waste water problems namely municipal sewage, community or colony sewage & industrial waste water coming from various sectors such as Textile, Dyes & Intermediates, pharmaceutical, foods & beverages, paper industry etc.



WASTE WATER RECYCLING SYSTEMS



In today world where environmental issues are gaining worldwide attention, added to that to scarcity of water around the globe has necessitated the development of cost effective and technologically viable systems for recycling or reuse of waste water. CLEARION is one of the front runners in Indian Industry in providing solutions for waste recycling. A combination of technologies like pretreatment, reverse osmosis, ultra filtration or special membrane systems for BOD/COD removal (particularly in distillery effluents) are employed to achieve the specified water quality.

As a step further in this direction, we are also offering complete solutions for zero discharge systems.

ULTRA FILTRATION (UF)

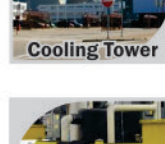
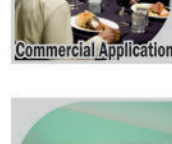
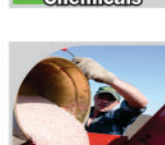
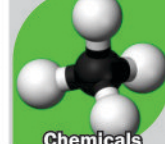
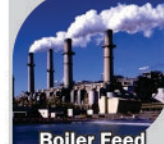


Ultrafiltration or UF is a pressure driven membrane separation process that separates particulate matter from soluble components in the carrier fluid (such as water). UF membranes typically have pore sizes in the range of 0.01 - 0.10 µm and have a high removal capability for bacteria and most viruses, colloids and silt (SDI). The smaller the nominal pore size, the higher the removal capability. Most materials that are used in UF are polymeric and are naturally hydrophobic. Common polymeric materials used in UF include: Polysulfone (PS), Polyethersulfone (PES), Polypropylene (PP), or Polyvinylidene fluoride (PVDF). Although these materials can be blended with hydrophilic agents, they can reduce the membranes ability to be cleaned with high strength disinfectants such as hypochlorite that impacts removal of bacterial growth.



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TURN KEY PROJECTS

When we say "Turn Key" we understand that every plant is a special case & is tailor made as quickly and carefully as possible. Turnkey responsibilities from raw water sample analysis in well equipped laboratory, Design, Engineering, Fabrication, Supply, Erection, assembling and Commissioning starting from civil work, mechanical fabrication at site, electrical or instrumentation mounting, cabling is taken care by our own in-house trained and experienced site engineers up to successful commissioning and handing over. CLEARION Quality Assurance Group, each system is manufactured and assembled to exacting specifications. A custom built plant up to 1,000 LPH TO 1,00,000 LPH per stream with multi stream option for any higher capacity is offered on a Turn-key basis.

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OUR PRODUCTS

CLEARION

delivered optimum technology solution for every water treatment requirements.

CLEARION uses variety environment friendly technology ranging from preliminary filtration to advance membrane based separation process.

CLEARION utilize total range of water treatment process such as

- ❖ AERATION / DE AERATION
- ❖ SEDIMENTATION
- ❖ MEDIA AND ANTHRACITE FILTRATION
- ❖ ION EXCHANGE BASED WATER SOFTENER & DEMINERALIZATION
- ❖ MEMBRANE BASED SEPARATION PROCESSES SUCH AS NF, UF & RO
- ❖ AS PER ISI PACKAGE DRINKING / MINERAL WATER PLANT & TURNKEY PROJECTS
- ❖ DOSING SYSTEM
- ❖ UV DISINFECTION / STERILISATION
- ❖ OZONATOR
- ❖ SWIMMING POOL SYSTEM
- ❖ WASTE WATER TREATMENT AND RECYCLE SYSTEM
- ❖ EFFLUENT TREATMENT PLANT
- ❖ HYDRO-PNEUMATIC PRESSURE BOOSTING SYSTEMS
- ❖ BOILER & COOLING TOWER CHEMICALS
- ❖ WATER QUALITY MONITORING INSTRUMENTS such as TDS/ CONDUCTIVITY/pH etc.
- ❖ SEWAGE TREATMENT PLANT(STP)
- ❖ WATER TESTING KIT

STOCKIST FOR

- ❖ ION EXCHANGE RESIN
- ❖ EUTECH INSTRUMENTATION
- ❖ FRP PRESSURE VESSELS
- ❖ MULTI-PORT VALVE
- ❖ HIGH PRESSURE PUMP
- ❖ R.O.MEMBRANE
- ❖ DOW, LANXESS, HYDRANUTICS, TORAY etc...

OUR SERVICES

CLEARION offer services to customers a comprehensive range of technical services including

Consultancy

- ❖ Testing of water & waste water
- ❖ Design and Engineering
- ❖ Turnkey project management
- ❖ Erection & Commissioning
- ❖ Operation & Maintenance
- ❖ Annual service contracts
- ❖ Pilot plant testing & studies
- ❖ Supply of spares & re-modifying water treatment plant including the plant supplied by other to improve quality, increase capacity and reduce chemical consumption.