



PURIFIED WATER GENERATION SYSTEM

Applications



Generation Storage, Monitoring and Distribution system for purified water



Blood Plasma



Syrup and Suspension



Cream, Ointment, Lotion, Gel and Suppository



Insulin



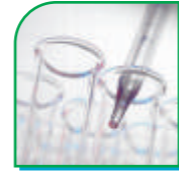
Vaccines



Parenteral Formulation Compounding



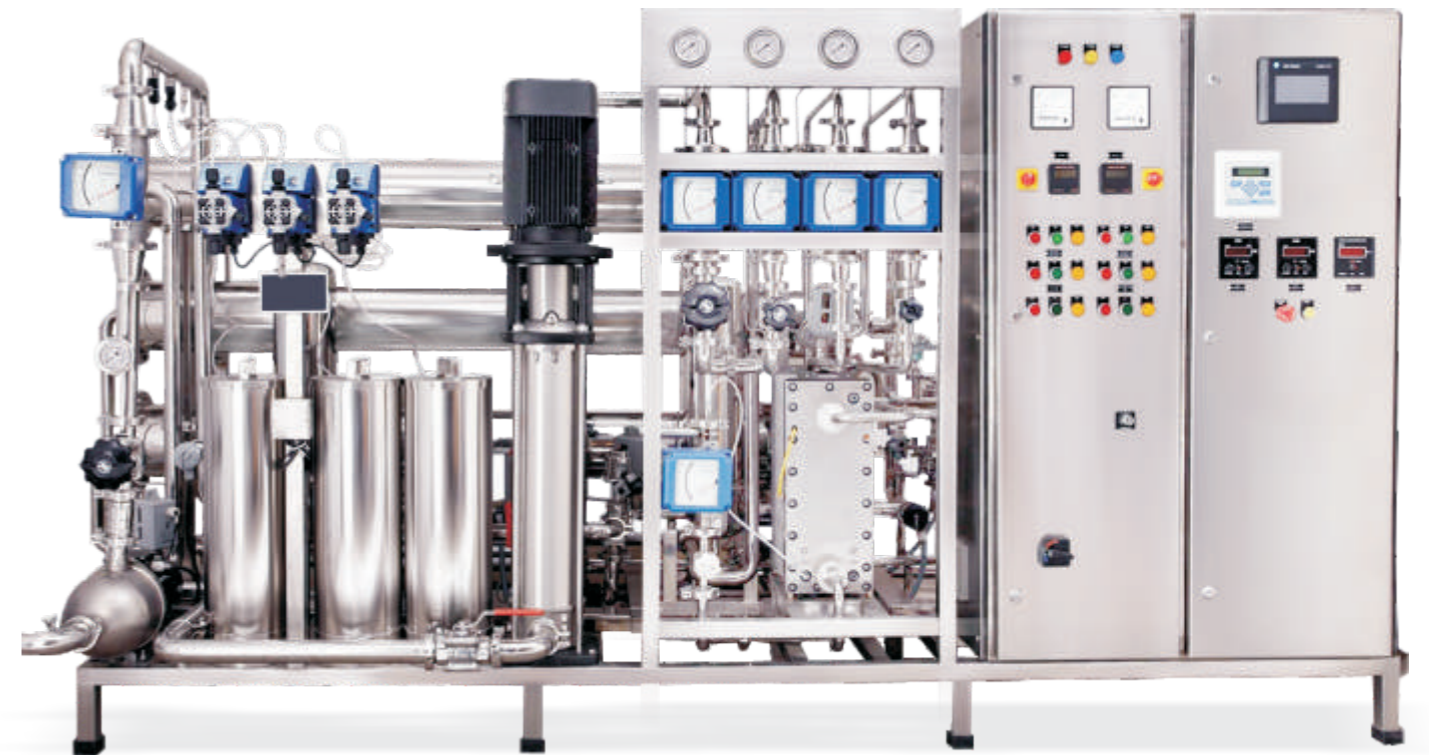
Hi Potent drugs, Cytotoxic, Anticancer, Hormones and Steroids



Biotech Modules Superskid

Global Presence

- Algeria
- Canada
- Egypt
- Ghana
- Iran
- Iraq
- Jordan
- Nigeria
- Russia
- Sudan
- Syria
- USA



Pharmaaccess has proven expertise in the field of water treatment for Pharmaceutical Industry. We offer complete range of custom designed modules with best designs to save on capital cost and operating cost. We offer the latest concepts of water treatment technology to meet the stringent water quality standards requirement. Water Purification Systems are designed to meet stringent quality requirement as per WHO Standards. The UF system used in pharma industry for high purity water generation is validated by **USFDA**.

Ultra filtrations System

The UF membrane is hollow fibre. The ultra filtration will reduce SDI, load of organics, load of microorganisms & colloidal silica. The feed water will be fed to UF through 5 micron Cartridge Filter to trap the suspended solids. This will avoid chocking of UF membranes due to suspended solids. The high pressure switch is provided for UF so as to safeguard system. As soon as discharge pressure & pressure drop is more than 15 to 20% than normal then system will give alarm & if not attained within 5 min., the system will be tripped automatically. The UF system is used in Pharma industry for high purity water generation.

RO - EDI System

Continuous Electro-Deionisation systems (CEDI) for producing pure water.

With the advent of new technology it is now practical to deionise water without the use of cation and anion resins regenerated with acid and caustic solutions; this technology is known as Continuous Electro-Deionisation or CEDI.

The process was developed in 1980 and has since been

perfected in the form of modular cells for use in high purity water systems as a polishing de-ioniser when feed with permeate from a Reverse Osmosis system, thus replacing the requirement for twin bed and mixed bed de-ionisers.

Description of Continuous CEDI Cell:

CEDI systems are used as a post-treatment to reverse osmosis to further purify the permeate to produce water with a quality of 10 to 18 MegaOhms depending on feed water quality and flow rates. The CEDI units are modular in construction and can accommodate multiple CEDI modules.



Advantages of CEDI Cell over conventional EDI Systems

- Does not require chemicals for regeneration
- Compact in size
- Produces consistent water quality
- Economical running costs
- Modular in construction
- Safe process

Filtration System

Our pressure quartz filter is a latest concept in the field of filtration technology to generate water free from suspended solid (TDS < 5 ppm). The suspended solids are trapped by using fine pure graded silex quartz as the filter media. The filter media is designed to handle incoming suspended solids upto 50 ppm. The filter is provided with manual & automatic backwash facility. The modules can be design for 1.0 m³/hr to 400.0 m³/hr capacity.



Demineralisation System

Our Demineralisation system is essentially used to produce demineralized water by removing dissolved ions from water by ion exchange process. The raw water to be demineralized or deionized is passed through two stages.

Demineralisation comprising of cation exchanger followed by an anion exchanger. The treated water of the outlet of the anion is less than 10 ppm. To take care of these ions which have slipped out through the mixed bed (polishing unit) consisting cations & anion exchange resins.

The treated water at the outlet of the mixed bed unit is the purest form of demineralized water with residual dissolved less than 1 ppm & conductivity less than 1 μ s/cm. The system removes the carbonic acid formed due to breakdown of alkalinity by cation exchange.