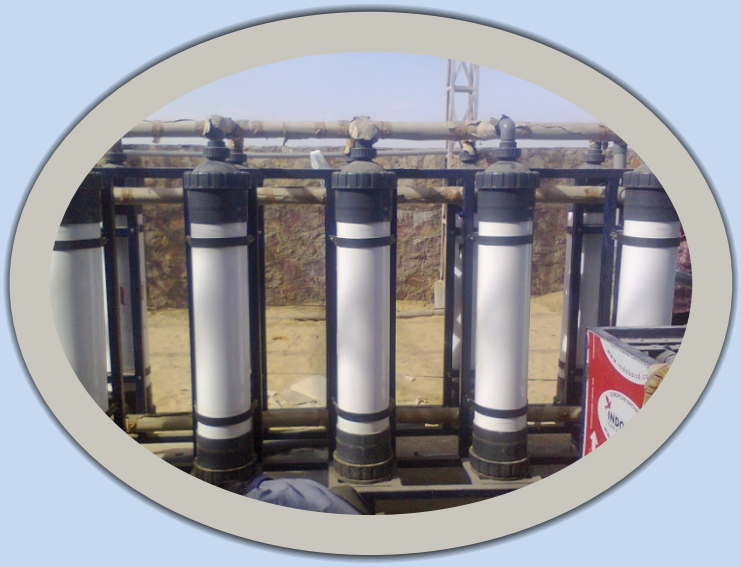
ULTRA FILTRATION SYSTEM

Ultra filtration (UF) is a variety of membrane filtration in which forces like pressure or concentration gradients lead to a separation through a semi permeable membrane. Suspended solids and solutes of high molecular weight are retained in the so-called retentate, while water and low molecular weight solutes pass through the membrane in the permeate. This separation process is used in industry and research for purifying and concentrating macromolecular (103 - 106 Da) solutions, especially protein solutions.Ultra filtration is not fundamentally different from microfiltration. Both of these separate based on size exclusion or particle capture. It is fundamentally different from membrane gas separation, which separate based on different amounts of absorption and different rates of diffusion. Ultra filtration membranes are defined by the molecular weight cut-off (MWCO) of the membrane used. Ultra filtration is applied in cross-flow or dead-end mode.



We are engaged in manufacturing and offering a broad range of ultra filtration water treatment plants which is used to purify water by removing suspended solids, colloids and bacterial elements. These plants are operated by using membranes which make them useful for purifying the contaminated water.

Key Features

- Less space requirement/ Compact Model
- Designed to meet the standard parameters as per pollution control board
- Modular Plant/ Easy to move
- Most Conventional Technology – MBBR/SAFF/FAB
- 60% - 90% water can be reusable
- Less Man Power Requirement to maintain

Overview

Ultra filtration membranes are capable of separating larger materials such as colloids, particulates, fats, bacteria, and proteins, while allowing sugars, and other low molecular weight molecules to pass through the membrane. With a pore size range between 0.01 to 0.1µm, ultra filtration membrane pore sizes fall between that of nano filtration and microfiltration. UF membranes typically operate between 50 – 120 PSI (3.4 – 8.3 bar) and are dependent on transmembrane pressure to drive the separation process. Other polymeric ultra filtration membrane characteristics include robust chemical and temperature resistance, and low fouling tendencies if proper pretreatment is employed.

We are the prominent manufacturer & supplier of superior quality ultra filtration plants which are very effective for separating suspended solids, colloids, bacteria and virus. In this range of filtration plants, we use membranes with the pore size between 1-100nm which become very effective in filtering the water from impure materials and other harmful minerals.

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