

Nano Filtration System

Description

Nanofiltration is applied to remove multivalent ions (like heavy metals) and is often used for de-colorization, de-salting, reducing the amount of organic matter. As a filtering technique Nanofiltration is situated in between ultrafiltration and reverse osmosis. Un ultrafiltration will not separate ions, whereas an NF will remove the larger ions. An RO, on the other hand, will remove nearly all the ions. NF has the same setup as an RO: a large stream flowing by the membrane while only the filtrate stream goes through the membrane. Nanofiltration also works according to this crossflow principle.



Salient Features

- Low operational costs
- Automatic/Semi-automatic operation
- Sensors to monitor/Safeguard the system
- Viruses, organic elements, and valence ions are removed from the hard water
- It is an effective way of softening the hard water
- The membrane has very tiny holes therefore, most molecules cannot go through

Applications

- Nano Filtration systems have Industrial, Domestic and Pharmaceutical applications, due to their low operating costs. H2O MSPL provides, Automatic and Semi-Automatic systems as per clients' needs
- H2O MSPL also provides various sensors within the system for proper functioning/safeguarding of system and achieve the permeate quality as promised to the client. Metallurgy of Contact and Non-Contact Parts is selected as per the process requirement

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