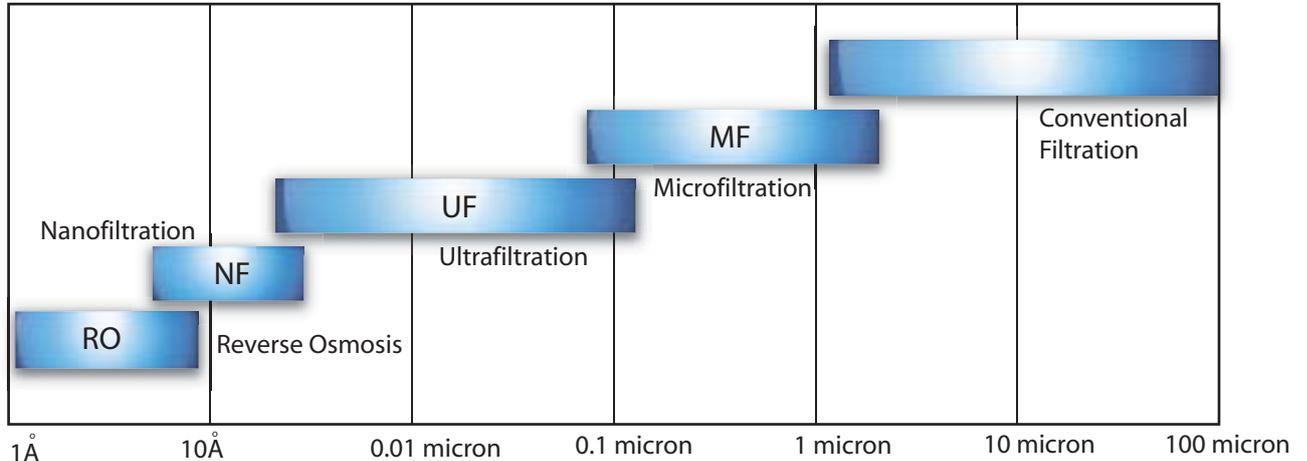




WATER FILTRATION AND PURIFICATION

Water Filtration and purification always offers a challenge to meet with ever increasing demand and concern on quality.

FILTRATION/PURIFICATION RANGES FOR VARIOUS MEMBRANE PROCESSES



Note: 1Å (Angstrom) = 0.0001 micron

WATER SOURCES

Water can be of various sources and thereby needs careful design to select and/or combine process to produce quality specific to individual requirement.

Typical water sources are: River, Canal, Surface/reservoir, Well, Seawater, tertiary effluent etc.



STRONG UF FIBERS



COMPACT UF SYSTEM

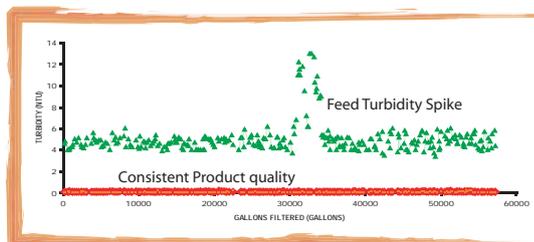


TYPICAL UF SYSTEM

ULTRAFILTRATION (UF) SYSTEM

Ultrafiltration has gained more popularity over conventional clarification, sand filters etc. due to its better performance, compact and lower operation/maintenance cost.

- Important advantage of ULTRAFILTRATION,
- Remove turbidity, SDI and Water borne pathogens
 - One step process using physical separation
 - Particle removal in critical process (electronics, plastics, pharmaceutical)
 - Consistent product quality no matter of feed water turbidity fluctuation.
 - Chemical free and Less waste
 - Modular and Compact Design



UF PERFORMANCE

UF REMOVES TURBIDITY < 1 NTU AND SDI < 3 IN SINGLE STEP

CHEMICAL FREE WATER TREATMENT & EFFLUENT RECYCLE



Innosep provides Modular UF Rack and complete systems based on production capacity requirement. Usually the racks are compact and can be arranged to suit with space. Each row of UF rack can be of maximum 100 m³/hr. For higher capacity, separate racks are used for flexible operation and maintenance.



DOUBLE ROW UF RACK, CAPACITY 50 M³/HR



SINGLE ROW UF RACK, CAPACITY 50 M³/HR

The UF units are designed based on the inlet water and effluent quality. A wide range of membrane, material etc. can be selected based on specific water condition.

For water treatment, UF removes turbidity and microorganism (bacteria as well as virus to some extent) and for Effluent recycle UF removes colloidal and suspended solids, BOD and organic molecules (based on UF membrane pore size, molecular weight cut off).

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