ENERSAVE UF Systems

Enersave UF Systems -

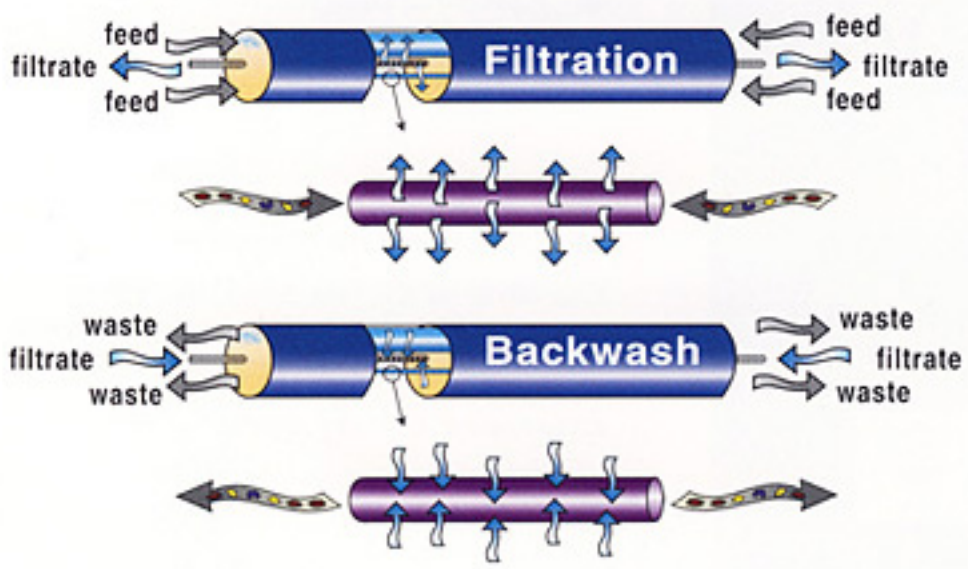
A 2 x 168 m3/hr UF system has been installed for a Combined Cycle Power Plant in Bowin, Thailand to treat the river water for their domestic and industrial applications.

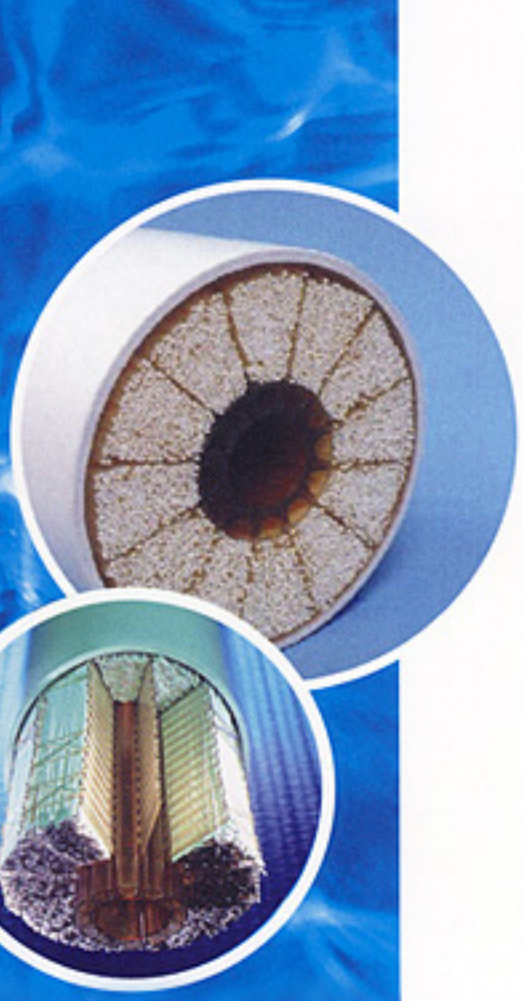
[*Design Turbidity : 20 NTU*
Treated Turbidity : <0.2 NTU]

Ultrafiltration is a technology characterised by high separation efficiency, low energy and chemicals consumption. It is primarily a physical, low pressure driven membrane separation process.

The separation efficiency of the applied polymeric membranes is determined by pore sizes from 0.01 - 0.05 microns. The internal diameter of the membranes produced as capillaries vary from 0.8 to 3.0 mm. Each membrane module (8 inch diameter) contains thousands of capillaries and are manufactured in the lengths of 1 and 1.5 meter with a filtration surface up to 35 m2 per module. These features make the technology very flexible and the components readily exchangeable.

Filtration is performed inside-out. Typically, the system is operated at a constant permeate flow. However, due to the increase of trans-membrane pressure with time, the membranes are backflushed by reversing the flow direction through the filter periodically (typically 20 to 60 seconds) in order to remove the fouling layer. If necessary, periodic chemical cleaning is also possible by using sodium hydroxide/EDTA, citric acid, hydrochloric acid, etc.





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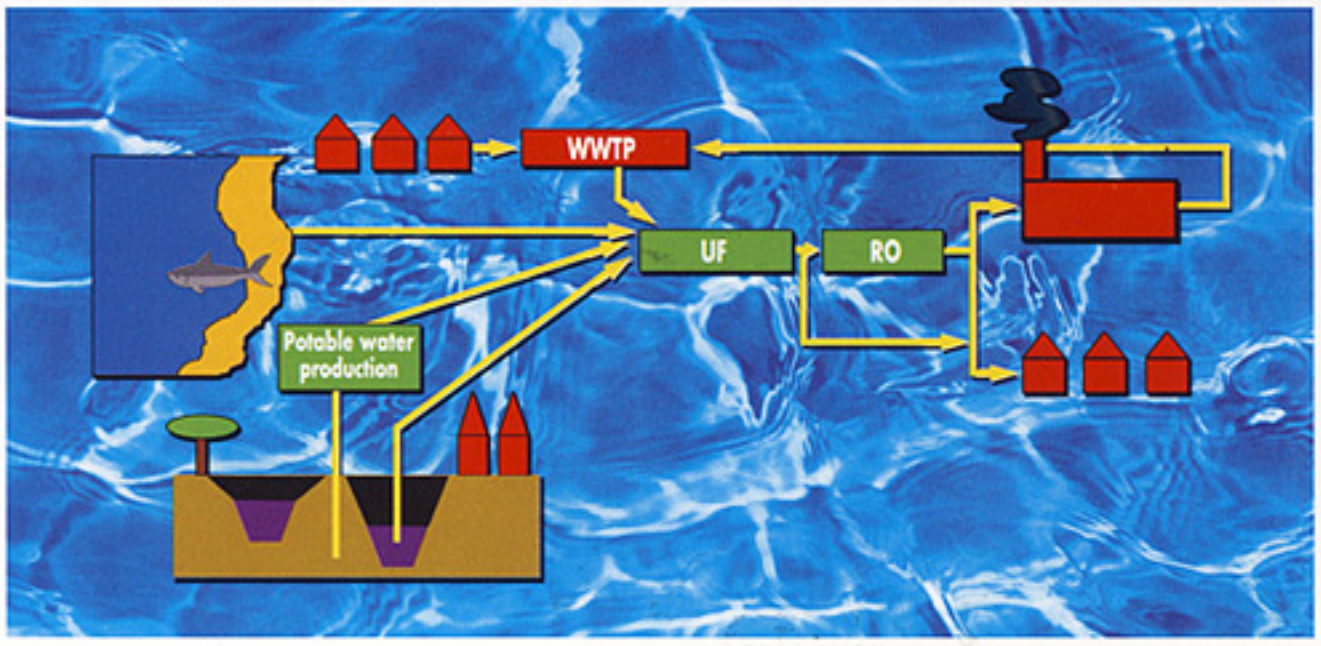
UF Systems, a wide range of applications :



- Surface water treatment (canal, river, lake, sea) for the production of drinking water, process water, boiler feed water, household water, irrigation water etc
- Final bacteriological barrier in drinking water production
- Pretreatment for reverse osmosis and DI systems
- Recycling of waste water effluent (industrial or municipal) into irrigation water or process water

Key Advantages

- Absolute barrier to remove all colloidal and suspended particles in the feed water - 0.1 NTU typically
- 6 log removal of bacteria, protozoa and viruses
- Consistent product water quality regardless of feed water quality
- Reliable and cost effective operations with extremely low chemical requirements and minimal and easy operation
- Compact construction, fast and easy installation
- Readily expandable or adjustable to current demand
- Fully automated

What Enersave could do for you :

- Analysis of the production process
- Functional design
- Construction
- After sales service
- Feasibility studies (if necessary)
- Engineering
- Automation

From start to the end, Enersave carries out every project in close consultation with the client. In the development of every system, Enersave always looks for the most efficient solution that can be seamlessly incorporated into the existing operation.

Enersave, which has been accredited with an ISO 9001 certificate, guarantees quality in design, production, installation and service.

Enersave UF Systems -
ensuring high quality water for robust industrial applications and also safe drinking water for our children, today and tomorrow.

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MS ISO 9001 REG. No.: 1285

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