

# Water Filtration

## PR Water-Flo Filter

### Water Filtration Membrane System

PR Water Filtration Membrane Systems are designed for cross-flow and dead-end filtration.

Hollow fibre membranes also have the capability to be backwashed. They enable flexibility to operate in a range of applications that can be optimised for specific water sources to reduce operating costs.

The PR Water Filtration Membrane provide efficient water treatment systems for clients requiring upgrades, purification, pre-treatment,

disposal and recycling of their water process use.

Typical operating pressures are in the range of 0-30 pounds per sq. inch.

Some of the industries ideal for the PR Water Filtration Membrane Systems include food, chemical, textile, petroleum, iron, steel, hotels, resorts, construction and residential.

#### Key Benefits

##### Ideal for Water and Waste Water Treatment

- Removes bacteria, colloidal material and high molecular weight material > 0.01 micron
- Removal of suspended solids > 0.1 micron
- Easy access for maintenance and operation
- Compact design with a small footprint maximising space usage
- Consistent permeate water quality
- Concentrate and recovery of valuable salts
- Removal of odours



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#### Key Features

- Feed and back flush pumps
- 2 control valves
- Air-scouring configuration
- Stainless steel frame
- Product flow meter

Process	Ultrafiltration Separation/Application
Electrophoretic paint	• Process rinse water, recycle paint to dip tank, allow reuse of rinse water
Juice clarification	• Remove haze components from apple juice
Textile sizing agents	• Recover polyvinyl alcohol after scouring of woven goods
Wine clarification	• Remove of haze components from red and white wines
Oil/water emulsions	• Lubricants concentrated from waste for incineration
Dewatering	• Separation of wax components from lower paraffins
Kaolin concentration	• Partial dewatering of clay slurry before centrifugation
Affinity membranes	• Retain ligand complex from noncomplexed proteins
Reverse osmosis pretreatment	• Retain colloidal silica, bacteria Concentration

Process	Ultrafiltration Separation/Application
Water treatment	• Concentration before sludge dewatering treatment of wool scour effluent for water recovery and re-use
Biological waste treatment process	• Biomass separation in municipal sewage treatment
Textile sizing agents	• Treatment of dye effluents
Cutting tool lubricants/coolants	• Separation of recovery of oils from waste oil emulsion and from oily wash waters
Pulp, paper & rayon	• Recovery of lignosulphonate fractions from waste waters
Food	• Treatment of food processing waste water
General rinsing and washing	• Treatment of parts washer effluent • Treatment of compressor condensates • Cosmetic manufacturing rinse water • Dishwasher effluent • Car wash effluent • Laundry wastewater

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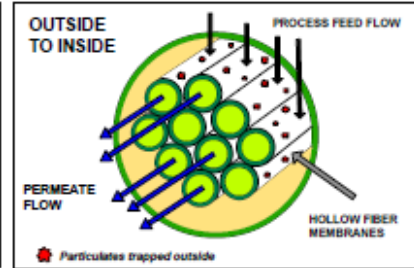
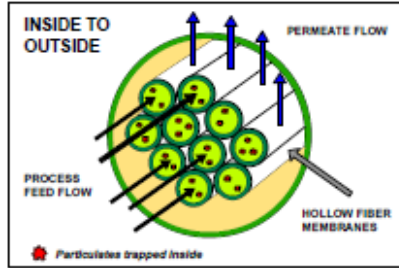
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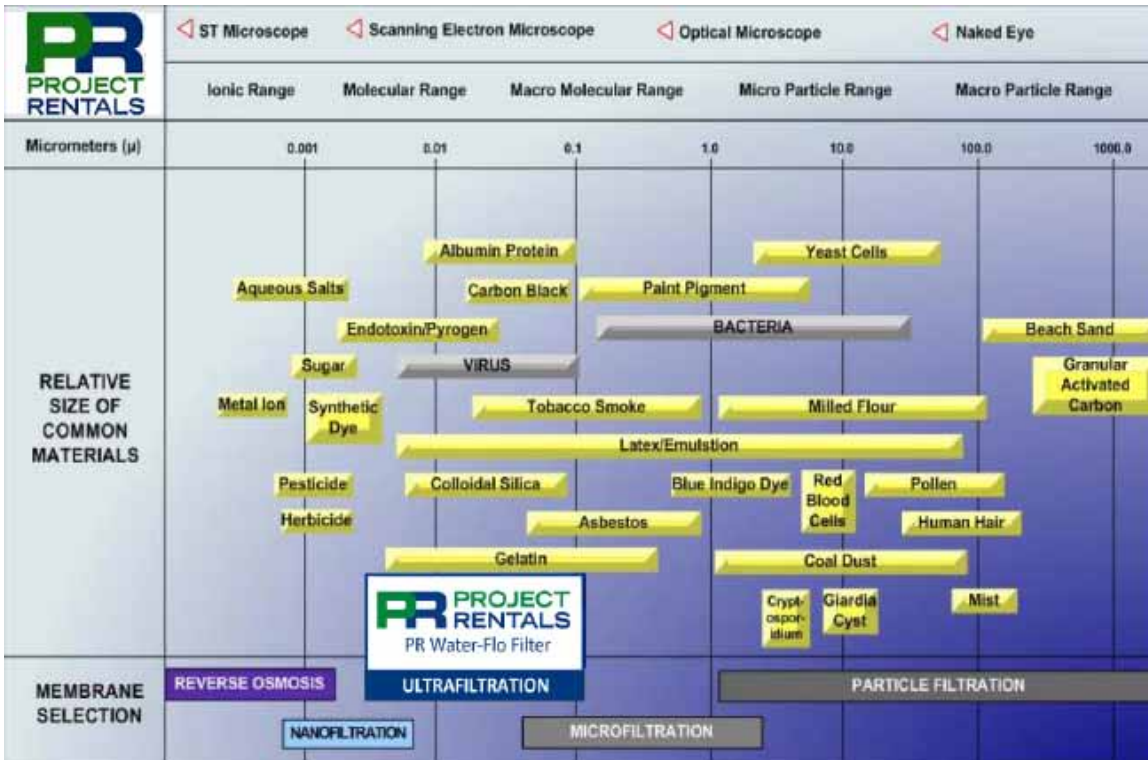
In both Cross-Flow and Dead-End filtration a portion of the feed passes through the hollow fiber membrane and the product is called permeate.

The rejected materials are flushed away in a stream called concentrate. The choice of either mode depends on the application.



### Filtration Chart

The PR Water Filtration Chart is a guide to assist in choosing the correct membrane for a particular material. For more detailed information contact our office on 1300 399 499.



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t. 1300 399 499

e. sales@projectrentals.com | w. www.projectrentals.com

