

Textile & Laundry Application

Chemical and Water Recovery

Conventional Treatment Systems

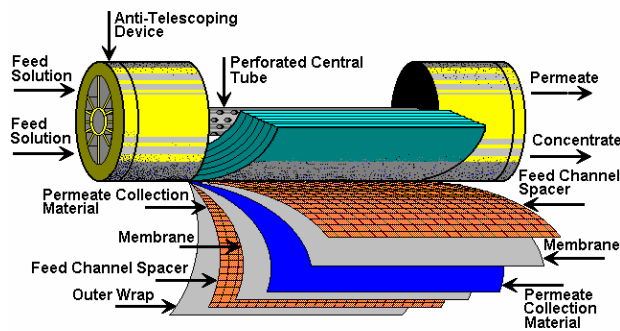
Conventional effluent treatment systems for textile and laundry effluents comprise precipitation, filtration and neutralisation. Generic shortfalls include:

- Requirement for constant monitoring of the precipitation plant.
- Poor treated effluent quality containing residual colour, COD and heavy metals.
- High operating costs associated with chemical dosing and off site sludge disposal.

Proven Membrane System Applications

By combining good house-keeping with proven state of the art membrane separation techniques, a large proportion of product, chemicals and water can be recovered from trade effluent for re-use.

Membrane systems can offer the following advantages:



Spiral-wound element: A closer look

- Rapid investment pay-back through
 - dye recovery
 - detergent recovery
 - process hot water recovery
- Reduced effluent treatment costs
- Reduced off-site sludge disposal costs
- Reduced environmental liability

Proven Applications

Effluent	Application
Laundry Water Reuse	75% Water Recovery Detergent Recovery
Dyehouse Desizing	Salt Removal PVA, Dye and Heat Recovery
Wool Scour	Fat Removal Detergent and Water Recovery

SPECIALISTS IN THE TREATMENT OF CHALLENGING INDUSTRIAL EFFLUENTS
Textile / Dyehouse & Textile Industry

Benefit Summary

Application	Technology	Advantages
Laundry Water Re-use	UF Membranes	Removes Insoluble Dirt Recycles Detergent and Inorganic Salts Maximum 50% Water Recovery for 1 st wash reducing detergent consumption Concentrate to Drain
	NF Membranes	Removes Insoluble Dirt and Divalent Salts Recycles almost pure water Maximum 75% Water Recovery for use in wash cycles. Must dose antiscalant Concentrate to drain
	RO Membranes	Removes Insoluble Dirt and all Salts Recycles pure water Maximum 75 – 85 % Water Recovery for use in all cycles Must dose antiscalant Concentrate to drain
Dyehouse Water Reuse	RO Membranes	Removes and concentrates salts and dyes Recycles pure water Maximum 75 – 85% Water Recovery for process Must dose antiscalant
Sizing Recovery	UF Membranes	Removes and concentrates waste PVA to 14% concentration
Wool Scour	UF Membranes	Removes Solids and Fats Recycles water and detergent

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