



WATER TREATMENT AT POWER PLANT

# Cooling Water Make-Up Product Recommendations

Cooling water systems need to replace water loss resulting from drift, evaporation, and blowdown. Depending on the region, water source, and cooling tower type, a number of technologies may be required to treat makeup water before it enters the cooling tower system. DuPont offers a variety of membrane solutions to fit your water source, condition, availability, and your specific treatment goals.

TECHNOLOGY	PRODUCT	APPLICATION	FEATURES
ULTRAFILTRATION MODULE AND SKID	IntegraFlux™ SFP 2880XP Module	Suspended Solids Removal	High permeability and high mechanical strength hollow fiber polyvinylidene fluoride (PVDF) membranes. The modules provide excellent performance, industry leading membrane area with low energy and chemical consumption. XP fiber provides up to 35% higher permeability than previous generation modules, improving operating efficiencies and productivity.
	DuPont™ Ultrafiltration SFP-2880 Module		High mechanical strength hollow fiber PVDF membranes. The modules provide excellent performance with industry leading membrane area.
	IntegraPac™ IP-77XP Skid		Skids are pre-engineered, standardized, and ready to assemble. Comprising of IntegraPac™ modules (standard and XP fiber), auxiliary parts, and piping the skids can significantly streamline design, assembly, and installation. Flexible sizing with 6-22 modules per skid.
	IntegraPac™ IP-77 Skid		
NANOFILTRATION ELEMENTS	FilmTec™ NF270-400/34	Softening	A product suitable for removal of a high percentage of total organic carbon (TOC) and with medium to high salt passage and medium hardness passage at very low operating pressures.
	FilmTec™ NF90-400/34	Softening/ Partial Deminearalization	A product suitable for high hardness removal and partial monovalent ion passage at low operating pressures.
REVERSE OSMOSIS ELEMENTS	FilmTec™ Eco Pro-440	Demineralization from Controlled Feedwater Source (municipal/high quality)	State-of-the-art solution to deliver high salt rejection at low operating pressure reducing CAPEX and OPEX.
	FilmTec™ BW30HR-440		Delivers low operating pressure coupled with a good permeate purity.
	FilmTec™ BW30HRLE-440		
	FilmTec™ XLE-440		
	FilmTec™ BW30-400	Established industry reference product providing consistent, high performance and long element life with decades of proven performance	
	FilmTec™ Fortilife™ CR 100	Demineralization from Challenging Feedwater Source	State-of-the-art solution to tackle tough fouling coupled with excellent salt rejection.
	FilmTec™ Eco Pro-400		State-of-the-art solution to deliver high salt rejection at low operating pressure reducing CAPEX and OPEX.
	FilmTec™ BW30XFR-400/34		Established high fouling resistance and fouling removal efficiency coupled with very high rejection proven at broad TDS range.
	FilmTec™ BW30XFRLE-400/34		Improved fouling resistance as well as efficiency of element's cleaning combined with low energy consumption and good water purity.
	FilmTec™ BW30-400/34		Consistent and reliable high operational performance coupled with increased productivity comparing to BW30-365.
	FilmTec™ BW30-365		Established industry reference product providing consistent, high performance and long element life with decades of proven performance.
	FilmTec™ SW30HRLE-400	Seawater Desalination	High rejection at sustainable lower lifecycle cost for medium- and high-salinity feedwaters.
	FilmTec™ SW30HRLE-440		Advanced combination of productivity and rejection resulting in a low energy seawater element, enabling lowest operation cost.
	FilmTec™ SW30XLE-400		
FilmTec™ SW30XLE-440			

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