Challenges
Providing a safe and pleasant water, free of dangerous microorganisms and with low levels of chloramines and trihalomethanes (THMs), at reduced operating costs and environmental footprint.

Success story of Crystar HiFlo membranes in an European leisure pool
Objectives of filtration system upgrade, under space limitations, with Crystar HiFlo silicon carbide membranes:
• Reduced water and energy consumption.
• Reduced chloramine levels and improved water clarity.

Results Summary
• 45% water and energy savings.
• 30% reduction in chloramine levels despite increase in bathers and replacement of medium pressure UV lamp with low pressure lamp.
• Strong simplification of maintenance, especially during start-stops for cleaning operations.

Benchmark - Leisure pool 120 m³/h

Benchmark - Leisure pool 120 m³/h

-48%
-45%
-32%
+11%

Daily number of swimmers
Chloramine x 1000 (ppm)
Water consumption (m³/month)
Energy consumption (kWh/day)

Pre-coat filter + UV medium pressure + Ca Hypochlorite
Crystar HiFlo + UV low pressure + Ca Hypochlorite

Operating curve Crystar HiFlo Filtration
Average differential pressure = 134 mbar

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