

POOL, SPA & RECREATIONAL WATER

SILICON CARBIDE CERAMIC MEMBRANES

AQUASOLUTION (AQS) SIC MEMBRANES FOR POOL & SPA

REDUCED BACK WASH WATER CONSUMPTION, SMALL FOOT PRINT, BETTER POOL ENVIRONMENT

Sand filters are widely used for pool water treatment and are worldwide responsible for an enormous volume of clean water being used for backwashing every day (522.228 m³/day for 19.334 registered public pools alone).¹

With our AQUA SOLUTION (AQS) SiC membranes, LiqTech replaces sand filters and significantly reduces the water consumption for cleaning the filtration system. The membrane filtration unit based on LiqTech's AQS is more compact than sand filters and in addition offers an absolute filtration rate thus a better water quality. In other words, less chlorine is needed to keep the pool clean.

Increasing focus on reducing the harmful disinfection byproducts from chlorination like Tri-chlor Halo Methanes (THM) has increased the focus on using membranes instead of sand filters.

INSTALLATION OF AQS CERAMIC MEMBRANES

The potential of LiqTech's AQS membranes for treatment of pool water was determined at a public pool site in Denmark in 2009.

The membrane filtration unit with AQS membranes from LiqTech demonstrated continuous treatment of pool water from a large public pool while reducing back wash consumption and providing a better water quality.

The capacity per membrane element of the type AQS 146x800. 2x2 3 micron was determined for the actual pool; up to 30-40m³/h at 0.3 bar TMP .

The water consumption for back washing was reduced by 75%.

1) <http://www.swimmersguide.com>

COMMERCIAL BREAKTHROUGH FOR AQS CERAMIC MEMBRANES FROM LIQTECH

More than five pool operators in Denmark have now chosen AQS ceramic membranes for their filtration system. In 2012, LiqTech was awarded the contract to supply AQS ceramic membranes for three Olympic pools in Norway. The installations were delivered by Provital Solutions A/S together with their partner ENWA water treatment.

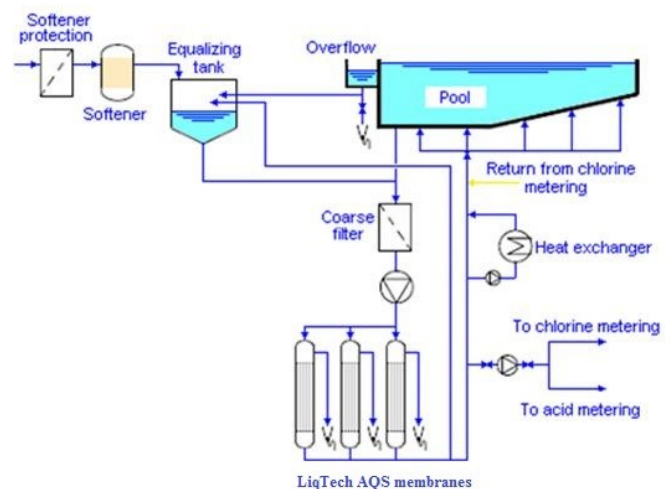


Figure 1: Typical pool installation with AQS membranes

LiqTech's AQS membranes are currently installed in pools and spas in Scandinavia, Spain and the USA. Total installed capacity is more than 7,500 m³/h.



Figure 2: Pool system (Courtesy of Provital Solutions A/S)



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