



Waterco Case Study

Southport and Ormskirk Hospital NHS Trust (Southport, UK)

Medical-grade filtration for hydrotherapy pool

Southport and Ormskirk Hospital NHS Trust (Southport, UK)

“ *Waterco’s products don’t just filter water, but instead provide optimal hydrotherapy conditions for patients and their carers.* ”

*says Tony Fisher,
Waterco Europe CEO*

- UPGRADING REHABILITATION POOL’S PLANT ROOM
- WATERCO’S SPLIT-TANKS IDEAL FOR RETROFITTING
- SPECIAL “FISH BONE” LATERALS THAT IMPROVE WATER FLOW DISTRIBUTION

Setting: Rehabilitation swimming pool in spinal injuries centre

Recovery from a brain or spinal cord injury can be a long, difficult and painful process.

Numerous clinical studies support the value of aquatic therapy as part of an intensive rehabilitation program. When expertly applied, it is known to improve recovery times and patient outcomes.



Southport and Ormskirk Hospital offers a comprehensive, individually-tailored and family-oriented approach to spinal cord injury treatment.

At Southport and Ormskirk Hospital NHS Trust in Southport, UK, its North West Regional Spinal Injuries Centre offers a comprehensive, individually-tailored and family-oriented approach to spinal cord injury treatment. So, when the rehabilitation pool’s metal filters began to fail, a decision was made to upgrade the plantroom.

“The two original metal fabricated filters were beginning to fail and leak and were becoming costly

to maintain – along with the existing cast iron pumps,” explains Facilities Department Estates Officer, Ted Williams. “The pool is a vital part of the rehabilitation process for many of the patients at Southport Hospital, so it was important that the plantroom was refurbished with high-quality long-lasting filtration equipment.”

Challenges: Installation restrictions prohibited use of standard vertical filter tanks

Limited access to the plantroom meant positioning the filters was extremely difficult and removing walls and doorways was not an option. The only access was through a narrow passage and doorway, making it impossible to use standard vertical tanks.

“The challenging nature of the plantroom meant that Waterco’s SMDT split tank filters provided the perfect solution,” Ted explains. “Ideal for retrofitting, they can be delivered in two parts and easily assembled on-site in the plant room.”

Solution: Waterco’s commercial filters and Glass Pearl filter media

Along with fitting Waterco’s 2 x Hydron SMDT1600 split tank filters and dual pressure gauge panels, Aqua Thermae UK – the specialists in sports and hydrotherapy pools – also installed Waterco’s Glass Pearl filter media and 2 x Hydrostar 7HP pumps in the plantroom.

“Over a number of years, we have installed Waterco equipment on many of the pools that we have built and where plantrooms have been refurbished,” explains Aqua Thermae UK managing director Richard Bishop. “It is important for us and our customers to know that we install products of the highest quality and that is what we get from Waterco along with the highest level of customer service and product support.”



For cases where space is a constraint, Waterco retrofitting SMDT split tank filter can be delivered in two parts and assembled on site in the plant room.

Conclusion: Crystal clear, healthy pool water that improves patients' quality of life

Thanks to Waterco's innovations and proprietary methods, spinal trauma patients now have access to crystal clear hydrotherapy water and a pool that will be used for years to come.

"The rehabilitation pool, in particular its water clarity, has never looked better," says Richard.

Waterco Europe CEO Tony Fisher says collaborating with reputable companies like Aqua Thermae reinforces Waterco's reputation as a supplier of high-end water filtration equipment.

"The professionals at Aqua Thermae are experts in their field, so it's important that the products they install are durable, reliable and easy to maintain," he explains. "Waterco's products don't just filter water but, in this case, provide optimal hydrotherapy conditions for patients and their carers."

"The rehabilitation pool, in particular its water clarity, has never looked better," says Richard, Aqua Thermae UK managing director.



The challenging nature of the plantroom meant that Waterco's SMDT split tank filters provided the perfect solution.



Special features of Waterco's split filter tanks

Built using the latest in gel-coated fibreglass technology, Waterco's SMDT split filter tanks include special "fish bone" laterals that improve water flow distribution through the filter bed. Additional features include:

- **Flexible configuration** - the customisable split tanks are available with optional configurations of sight glasses and lateral manholes
- **Durable construction** - fibreglass vessels have a mechanical and chemical resistance superior to steel
- **Lightweight to transport and install** - fibreglass weighs only one-third that of steel vessels whilst maintaining the same level of strength
- **Easy-to-maintain design** - once installed, split filter tanks are virtually free of ongoing maintenance. And, unlike steel, fibreglass does not require periodic applications of anti-corrosive coating or time-consuming maintenance programmes

www.aquathermae.co.uk
www.waterco.com