

# Filtration For A Wet Leisure Nation

Some of the most important products that lie at the centre of any modern and efficient water cleansing system are those associated with **filtration**. What was for a while a fairly uninspiring sector has seen a number of innovations over recent years and filtration products, in their many guises, are now viewed as essential for providing effective water management and cost savings. This issue, we showcase just some of the available filtration solutions **By Jon Wadeson**

**M**ore often than not hidden away and for many years perceived as low tech when compared to other more fashionable equipment, filtration has seen a number of new innovations recently with technology playing its part and providing new and improved solutions for what is without doubt, a critical part of any pool and spa setup.

As efficiency increases, the use of water and contamination decreases, so improvements in products that are connected to the filtration of water are always welcome across the wide range of operating environments.

From the smallest spa or hot tub to the largest commercial swimming pool, there are innovative new filtration products on offer that are helping to improve water quality and in doing so, are providing a better environment to be enjoyed by all. In this issue, we explore some of the filtration solutions and the benefits they provide.

## A FANTASTIC FILTERS RANGE FROM GOLDEN COAST

If you think water filters are all created equally, then think again. That's the message from Golden Coast, one of the UK's leading suppliers of wet leisure products to the trade. The company's comprehensive range of filters for commercial and domestic applications can save owners time, money and water.

One such product, Waterco's range of Micron Bobbin Filters, delivers superior water filtration. Featuring a unique fishtail lateral configuration, the ingenious design eliminates the ineffective 'dead areas' commonly associated with traditional star-design filters.

That's not all – this highly efficient design requires as much as 30% less water to backwash. Furthermore, a dual function drain/large sand dump port allows for easy winterisation and sand changes, while a large clear access lid ensures quick and easy servicing and inspections.

Supplied complete with a side mount multiport and gauge, micron bobbins are available in 500, 600, 700, 750 and 900mm tank sizes with all tanks 700mm and upwards supplied with a 2" valve.

Golden Coast offers an extensive range of filters from other leading manufacturers too and Managing Director Jamie Adams said: "Whether you're specifying for a pool, a spa, or a hot tub – domestic or commercial – we are confident that we have the best filter for you, your business and your customer."

## PEARLS OF WISDOM FROM WATERCO

Waterco extended its already impressive range of water, time and money saving products with a new generation of filter media – Waterco Glass Pearls.

Manufactured from 100% virgin glass, Waterco's Glass Pearl media offers much finer filtration than other alternatives and is therefore capable of providing outstanding water purity and clarity (filtration below 3 microns). They also require 20% less water for backwashing compared to sand.

Whereas other filter media may contain different contaminants, Waterco's Glass Pearl media is chemically inert for the ultimate water purity, and at only 0.6mm by 0.8mm in size, the narrow particle size of the Glass Pearls enables in-depth superior filtration. The spherical shape also results in low friction levels, also reducing the need to

backwash and saving both time and precious water.

Safe to handle and safe to service, Glass Pearls are spherical and do not have any sharp edges protecting installer, servicers and swimmers alike.

They are easy to install, enabling a rapid startup of the media filter, and the high purity means very little backwashing is required to cleanse the filter media prior to commissioning the filter.


Waterco Glass Pearl media has already been used in a variety of different installations ranging from small domestic pools to large, high demand commercial settings and everything in between. The results have been equally impressive regardless of situation and case studies of installations already using Glass Pearl media can be seen on the Waterco website.

## CERTIKIN'S OC-1 REVOLUTION GATHERS MOMENTUM

Certikin's British manufactured OC-1 filter media is tearing up the textbook on traditional methods of entrapment filtration. In contrast, OC-1 works through settlement and cleverly harnesses advances in pump technology and variable speed pumps/controllers to make massive energy savings.

By replacing commonly used media (such as sand and glass) with OC-1, it is possible to reduce the head loss in the filtration system, filter with a constant flow (regardless of debris entrapment) and significantly reduce running energy costs whilst still filtering to the equivalent standard as it can be used with a smaller pump or a variable speed pump or controller.

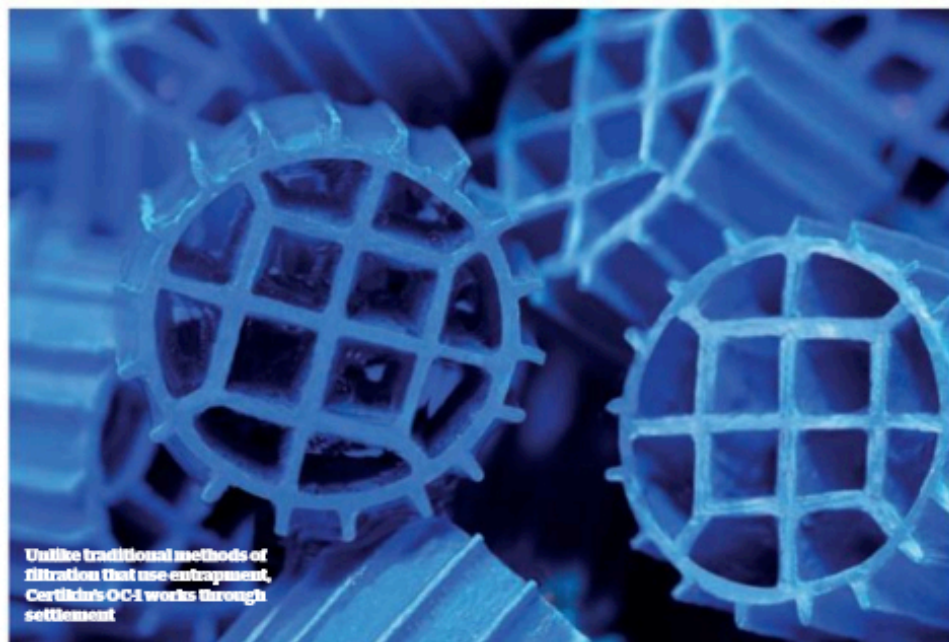
It is easy to convert an existing sand filter for use with OC-1 with a simple lateral modification and in addition, two new filters, specifically designed to work in perfect harmony with OC-1 media have just been introduced for both domestic and commercial installations.

OC-1 filters to international swimming pool standards and has a payback of typically 



Manufactured from 100% virgin glass, Waterco's Glass Pearl media offers much finer filtration than other alternatives





Unlike traditional methods of filtration that use entrapment, Certikin's OC-1 works through settlement

6-12 months. Some of the products other outstanding key benefits include:

- Huge capacity for debris collection – OC-1 offers over 20 times the capacity of sand or glass.
- Reduced requirement for backwashing and a more efficient backwash – reduces water consumption, chemical usage and heating. There is no need to backwash on start up with new installations.
- Lightweight – Can even be shipped inside a filter, easy to handle and super quick and easy to install.
- Less maintenance – lasts longer than sand, reduces pressure in the system, extending the life of equipment.
- Recyclable at end of product life.

Certikin's Commercial Manager, Steve Nelson said: "OC-1 is a change in mind set. Since the launch of OC-1, we have had superb

feedback and have new installations and the upgrading of existing sand filters every week. The advantages for the installers are beginning to be fully appreciated."

OC-1 filtration media is suitable for use on all pools and spas, be they domestic, commercial or hydrotherapy.

#### PLEATCO FILTRATION CARTRIDGES AND MORE FROM PLASTICA

Plastica takes great pride from being an authorised dealer for Pleatco filtration cartridges, a brand whose reputation for designing arguably the most advanced scientifically engineered filter cartridges is renowned.

The water in any swimming pool or spa is only as clean as the filter cartridge used – but not all cartridges are alike. Pleatco Advanced Pool is the combination of Pleatco Point



Plastica don't just provide Pleatco pool and spa filters, they also have specially formulated filter cartridge cleaner tablets too

Bonded Filtration Fabric coupled with Pleatco Free Flow Cores. All Pleatco filter cartridges are made from this dual technology which is 100% unique and exclusive to the company.

Spa and pool filter cartridges have always been placed together using the same design and materials for both environments – which are fundamentally different in many ways. As an industry leader in science and innovation, Pleatco set out to research, develop and successfully create the world's first and



The NanoFiber filter from AstralPool is self-cleaning thanks to a sophisticated network of nanofibres

only premium replacement filter cartridges scientifically engineered just for the hot temperatures and high-power propulsion of water flow found in spas and hot tubs – Pleatco Advanced Spa.

Plastica don't just provide Pleatco pool and spa filters, they also have specially formulated filter cartridge cleaner tablets. Pleatco FilterWash™ is a simple to use cleaning tablet, designed to penetrate deeply into any reusable cartridge filter and remove the accumulated materials such as suntan lotion or oil, body oil, grease, dirt, soap scum and other organics. This thorough cleaning allows cartridges to return to a high level of original performance without harming the filter. Unlike other cleaning agents, Pleatco FilterWash™ comes in specific formulas – one for pools and one for spas, scientifically engineered for each environment.

In addition to products, Plastica are also into their sixth year of providing the Pleatco catalogue quick reference guide to filter cartridges. Helping to save the trade time, users can search by product size, code and filter manufacturer.

#### SELF-CLEANING EFFICIENCY FOR RESIDENTIAL POOLS

With the aim of delivering filtration as never seen before in the residential pool sector, AstralPool's experts designed NanoFiber, an efficient and healthy filtration system for

pools of up to 90m³.

The NanoFiber filter is self-cleaning thanks to a sophisticated network of nanofibres, which is able to filter particles of up to 5 microns, and it prevents the device from getting clogged up with dirt. As a result, there is a significant improvement in the quality of water once it has been filtered.

NanoFiber has a unique filtration system. A central manifold sends the water flowing through the mechanism sideways. As the water is redirected, this not only results in the even distribution of dirt but also extends the filter's service life.

One of the device's great advantages is that it is easy to clean. The shower starts to work in the backwashing position. In order to backwash the filter medium properly, the lever on top of the filter must be turned. This works manually or automatically depending on the NanoFiber range chosen. In both manual and automatic mode, turning the lever also makes the filter medium turn, which ensures it is thoroughly cleaned.

Physico-chemical tests were conducted by an external laboratory (Porometer) to analyse the effectiveness of NanoFiber's filtration system. Following comparisons with other systems in the same category, the experts who conducted the tests stated that AstralPool's mechanism filtered more evenly and thoroughly than other models, which prevents limescale.

Apart from the fact that it was easy to use, clean and reliable, the laboratory also highlighted NanoFiber's compact design and its sustainability.

#### EXCLUSIVE TO SCP - SUPERPOOL SAND FILTERS

Whether it's for commercial or domestic settings, SCP offer a wide range of filtration products from a number of well-known and reliable brands including Haywood, Pentair, Pleatco and Waterco. A relatively new addition to their extensive filtration line up is the new top and side mount sand filters from Superpool. These distinctive products have been well-received by the industry due to their durability, trustworthy performance and a non-corrosive gel coat fibreglass finished tank. The UV resistant material enables it to operate under prolonged sunlight for years of reliability.

Available exclusively from SCP, the smooth finished white models are available in side and top mount valve options, with the side mount option incorporating a large 9 1/2" transparent lid with lid tool giving a clear view of the filter media during operation and backwashing.

There are four sizes available ranging from diameters of 20" to 35" and the range accommodates flow rates of 10m³/h to 32m³/h.

Each filter includes a 6 way multiport

valve, reliable and durable Glycerine Pressure Gauge and air release valve. A hose clamp allowing the valve to rotate 360° for easier connection also features and for the larger 30" and 35" models, a large diameter threaded cover and a swivel stem also enables the rotation of the filter during installation.

All variants across the range come with a ten-year warranty (residential) on the tank plus a one warranty on the valve. In addition, SCP also offers a filter and pump package on these Superpool models.

#### QUALITY PRODUCTS AND WATER SAVING SOLUTIONS FROM WATERCO

The brand names Waterco and Lacro have become synonymous with quality, effective, efficient filtration, owing to the company's well-established manufacturing capabilities, and the constant drive to bring innovation to the market.

Waterco's success has been driven by its pioneering fibreglass and plastic moulding techniques, as well as its efficient manufacturing processes, enabling the company to deliver high quality products at exceptional value.

Boasting an impressive range of both commercial and domestic filtration, the company has sought in recent years to add to this range of products such as the money and water saving MultiCyclone prefilter, and now its larger equivalent for the commercial market, the MultiCyclone XL, capable of handling flow rates up to 90m³/hr, and invaluable tool in prolonging the life and efficacy of

Available exclusively from SCP, the smooth finished white Superpool models are available in side and top mount valve options



#### CASE STUDY LATEST TRANSFER NEWS: NO COAL, JUST OC-1 TO NEWCASTLE!

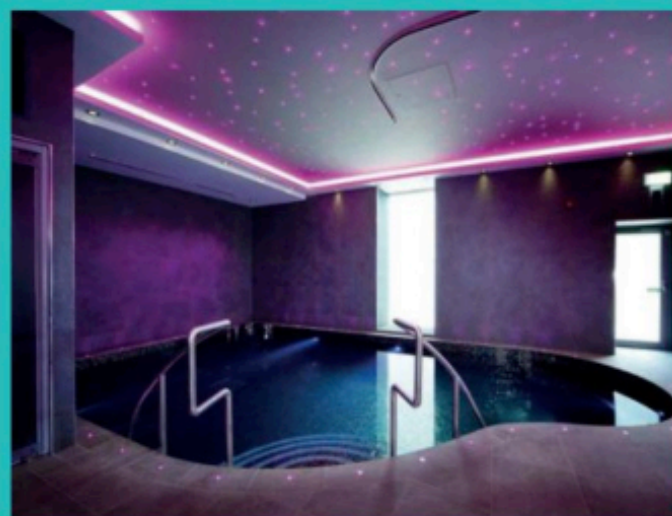
When the Alan Shearer Activity Centre in Newcastle Upon Tyne approached Whitewaters Ltd to replace an old hydrotherapy pool, the pool specialist, turned to Certikin and in particular, their trailblazing new filter media – OC-1.

Founded by the retired footballer on the outskirts of Newcastle, the Centre is a specialist recreational, sensory and social centre for disabled people catering for a wide spectrum of need.

Having seen better days, Whitewaters set about stripping out the old hydrotherapy pool, replacing it with a £500,000 state-of-the-art facility. Six months in design, the construction took a further six months to complete.

Managing Director of Whitewaters, Mick Guthrie says: "The new hydrotherapy pool offers all the grandeur of a top quality spa, but it also plays a serious role in providing therapeutic benefits to disabled people of all ages."

Water quality is, of course, of vital importance and at the heart of this pool's filtration system is the ground breaking OC-1 filter media for which Certikin is the world's exclusive distributor. Unique in its methodology and performance, OC-1 works through settlement as opposed to entrapment, and harnesses the recent advances in pump technology and variable speed pumps/controllers.



Whitewaters Ltd  
0191 551 2048  
www.whitewaters.co.uk