



# TC Filters Ltd

## Producers of World Acclaimed Backwashing Water Filters

Based in Bath, England, TC Filters designs, builds and sells a unique range of water filters based on the “zero gravity” filter coil.

The coil has very precise nidges which give the filter a precise filter gap and is available in a number of sizes from 10 to 400 microns.

The filter coil is manufactured to open evenly so that during backwash the coil is cleaned rapidly along its whole length.

The coil is fitted into a range of water filters to cover all flow rates and is available in stainless steel and alloy 625 for use in seawater.



# Products



## EasyClean

Originally intended for the domestic market, the EasyClean has become our most versatile filter fitting into many industrial processes as well as rainwater, monitor protection and many other applications. The EasyClean is available in manual, manually backwashed or fully automated models and can operate as a single coil or multiple units. Multiple units are controlled by a PLC allowing pumps, valves and other ancillary equipment to be integrated into bespoke systems.



## Phoenix

The Phoenix is an all stainless steel unit, with six individual filter pods each fitted with a single element. The Phoenix has 3" flanged fittings in and out and can operate at flows up to 18 l/s and temperatures up to 90°C.

The Phoenix comes in several models, for indoor, outdoor and heavy industrial use and can be fitted with pumps, valves and many other items for bespoke applications.



## Seawater Filters

Our most innovative range combines an alloy 625 coil with industrial plastics and special metals to produce a filter suitable for aggressive and corrosive seawater applications

There are two main type of seawater unit, one based on the EasyClean and the other based on a larger housing.

These have been used for instrument protection, as well as for pre-filtration in systems used to produce potable water.



## S2000

The S2000 is the largest filter in our range and is made entirely from stainless steel and plastics. It offers durability and reliability as well as efficiency in coping with large volumes of water. The S2000 is produced in banks of four or five pods with each pod housing seven elements. The modular design allows the S2000 to suit any flow.





# Applications

**Cooling Towers** - Water clean up gives more efficient cooling, reduced maintenance, fewer chemicals. HVAC applications are always improved with efficient filtration.

All sizes of tower catered for with small units giving a sidestream flow up to very large units with 100% filtration.



**Seawater and Aquarium Water** - The range of seawater filters lends itself to desalination plant of any size. The removal of solids from seawater has been successful in many applications including sea life centres, zoos and the protection of delicate equipment used to monitor seawater effluent.



**Borehole Water** - Removal of particles to protect ultra-filters and RO systems from rapid blockages.

TC Filters can be part of an overall package to create potable water or cooling water supplies.



**River, Canal and Stream Supplies** - Filters used for cooling, potable and process water. TC Filters are available for any flow at any micron to remove silt and other debris found in surface water which can then be fed into a system or onto further fine filtration. The use of our filters can help protect heat exchangers as well as other cooling systems.



**Rainwater Harvesting** - Green and money saving; allows water usually wasted to be filtered and used for washdown or flushing toilets. Naturally soft, rainwater is ideal for washing and flushing. TC Filters are used as part of an overall system in removing solids which could block valves or other equipment.



**Industrial and Agricultural Use** - TC Filters are used in the protection of spray nozzles and in the protection of sensitive equipment in many industrial applications as well as on agricultural applications throughout the world. The rugged nature of our units allows for long service intervals and remote operation.



**Final Effluent and waste water** - The ability to remove particles allows water to be re-used and so saves on mains water. Waste water can be cleaned sufficiently to either re-use it or clean enough to achieve required cleanliness.



## Every TC Filter provides a reliable and effective filter solution.

- The robust construction ensures a very reliable filter that will require minimal maintenance and has a long life expectancy.
- The efficient and effective filter will provide an absolute filter quality with few moving parts and low power requirements.
- All stainless steel and plastic design provides a corrosion free, low maintenance product with no replacement cartridges or bags to contend with. The cost saving benefit of zero consumables and reduced hours to replace costly consumables is a real cost benefit.
- The compact design is space efficient and is powered by a 12/24Vdc system allowing for a safe and reliable filtration zone.
- Modular design system allows any flow rate to be accommodated and most of our applications are bespoke. The added benefit of increasing the flow capacity by adding additional filters without making existing units redundant is a major consideration.
- TC Filters is a flexible and innovative company that allows quick response time and the flexibility to design, supply and test on behalf of its clients. With over twenty years in the business, we have the experience to help.

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