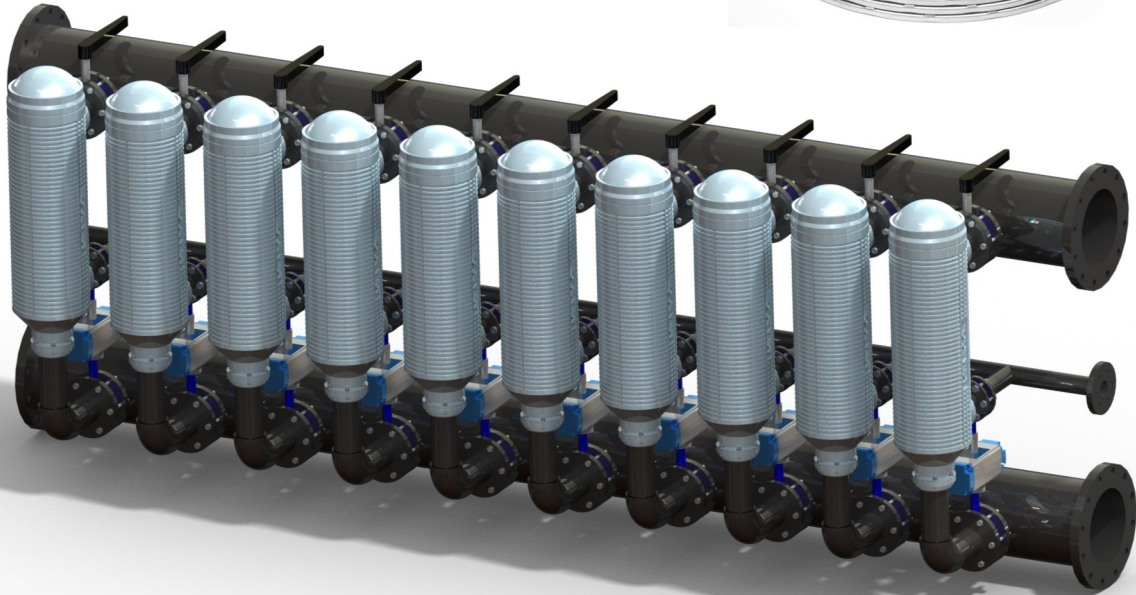


# SEA WATER FILTRATION

FROM  
**TC Filters**

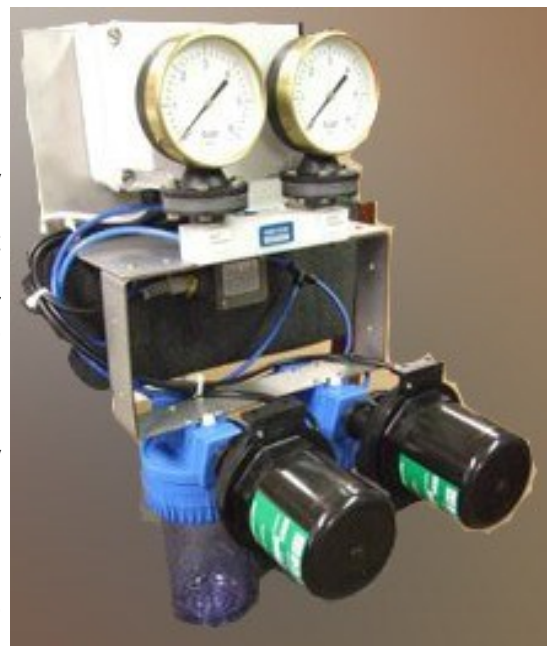


Following the success with the smaller EasyClean range, TC Filters is branching out into producing larger filter units that can be operated with sea water.

Using a filter coil made in alloy 625 and plastic housings and pipework, TC Filters have already produced many small flow units where particulate in the sea water can cause significant and costly damage. The unit on the right shows an EasyClean duplex filter similar to those installed in coastal power stations. All wetted parts are suitable for sea water and diaphragm protected gauges can also be fitted (not shown).

The larger unit uses polypropylene housings, each holding four filter elements and is operated with bronze butterfly valves. The main pipework is polyethylene and the filters are modular with overall PLC control.

The unit above shows a 10 pod unit, designed as part of a 3000 l/s filter unit for a major power station. The complete filter has over 350 housings.



Smaller multiple units assembled with pumps and valves appropriate to site conditions can be configured to suit flows down to 10 l/s,

The plastic construction eliminates the possibility of corrosion and gives the unit a very long life span. These larger units are built into standard containers which are assembled on site as required. This allows full operational testing at the factory as well as decreasing the time needed on site for assembly and commissioning. An alternative unit in Super Duplex is also in design.

# Applications

Desalination plants  
Shipboard filtration  
Coastal cooling systems  
Protection of monitoring equipment  
Pump seal and bearing injection  
Power stations  
Shell fish breeding

Zoos  
Fish farms  
Marine aquaria  
Sewage systems  
Ship ballast water  
Brine systems  
Estuarial water systems

# Specifications

## Materials of Construction :-

### Filter Housing

Polypropylene\*

### Filter Cage

glass filled polypropylene and polyacetal

### Filter Cage Parts

alloy 625 threads and spring

### Filter Cage Plate

PVC

### Filter Cage Seal

nitrile rubber

### Filter Coil

alloy 625

### Pipework

polypropylene and polyethylene\*

### Valves

cast iron bodies with bronze disc

### Actuation

PLC controlled pneumatic actuation\*

### Support Frame

galvanised steel\*



TWO POD FILTER UNIT WITH 3" INLET AND RETURN. BACKWASH PORT 2".

**Maximum Recommended Flow** 10 l/s per housing (filter ratings from 75µm and larger)  
**Maximum Working Pressure** 6 bar\*

\*Alternative materials and/or specification available on request.

All specifications are subject to change.

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The design of TC Filters is subject to modification or change without notice

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