

## Copatrawl<sup>™</sup> Screen

Trawl sac screening system, screening down to 6mm with no moving parts

### Key features & benefits

- Suitable for a wide range of applications
- Flexible trawl sac arrangement to suit requirements

### How we create value

- Efficient distribution of effluent to the filter bed
- Simple, low cost operation
- Easy installation/retrofit
- Reduces works maintenance



# Copatrawl™ Screen

The Copatrawl™ sac screening system, screening down to 6mm with no moving parts, using disposable trawl sacs. The Copatrawl design can be made to fit into most sewage treatment applications, be it retrofit into an existing works or as part of a new scheme.

## Applications

The primary application of the Copatrawl design is on settled sewage, protecting traveling filter arms on rectangular trickling filters and improving the integrity of the works by protecting the filter arm sparge nozzles from blockages. Copatrawl design applications have increased to include screening storm overflows, storm tanks and final effluent.

## Typical Applications

- Filter arm protection on trickling filters
- Emergency/storm overflow screen
- Screening of final effluent

## How it Works

The Copatrawl system can be installed directly into the flow path of the fluid being screened. Solids are retained in the sac, therefore preventing downstream problems such as clogging of trickling filters or the pollution of surface waters following a storm event. The Copatrawl screen provides much larger flows than its sister product, the CopaSac® screen. Each trawl sac can screen 150l/s.

The Copatrawl technology has been proven to reduce work visit frequency and provide better distribution of effluent to the filter bed. It is recommended that a lifting davit should be used as a minimum requirement, facilitating removal of the trawl sac from the flow chamber.



### General Technical information

The modular Copatrawl design allows them to be retrofitted to almost any configuration and in most locations on a sewage treatment works.

The disposable trawl sac is attached to a Glass Reinforced Plastic (GRP) nose box by hooks. The molded nose box is situated in a modular GRP slider section for easy removal.

The trawl sac should be disposed of when it is about a quarter full. A draw cord ensures that the clean screenings remain within the trawl sac.

### Other Accessories

- Lifting Davits
- Outlet Protection Grid
- Walkways
- Wheelie bins for collection and draining of used Copatrawls

### Technical detail

The maximum recommended flow rate is 150 l / sec / trawl sac. However, there is no limitation on the number of trawls that can be used, other than the space requirement. Average trawl change frequency (settled sewage) is 3-4 events.

### A Copatrawl screen can be successfully used on the following:

- Settled primary sewage
- Final effluent
- Stormwater overflows
- Settled stormwater

Optimum distance from nose box invert to floor is 500mm. Above 500mm a sac support grid may be required; below 500mm the trawl sac life will be reduced. The top water level should ideally not exceed the nose box invert level.

The Copatrawl sacks are available in a variety of mesh sizes: 6mm, 12mm, and 25mm. Mesh size is dependent upon the application (see table right).

### Copatrawl™ Screen

Recommended Mesh and Application			
	6mm	12mm	25mm
Settled Primary Sewage	✓	✓	
Final Effluent	✓		
Discharge From Storm Tanks	✓	✓	
Storm Overflow	✓	✓	✓
Emergency Overflow	✓	✓	✓

### Materials of Construction

Copatrawl Sacs: Fixed weave, polypropylene netting  
Sack length – 3200mm circumference x 2000mm long

Nose Boxes: Stainless Steel

Fixed Framework and Nose box guides: High quality pultruded GRP sections  
Fixings: Stainless Steel

### Lifting Data

Recommended lifting equipment: swing jib crane  
Lift height 3.2m above suitable disposal container (i.e. Skip). Safe working load: 300kg



Picture caption: Multi-sac Copatrawl™ Installation

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