ACO. we care for water

Every ACO product supports
the ACO WaterCycle

- Marine Drainage
- Vacuum System
- Push Fit Pipe System
- Wastewater Treatment Plants
- Grease Management
- Lint Filter
- Tanks
- Lifting & Transfer Stations
- UV Deodourisation Unit

05/2024 – Subject to alterations

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ACO Clarimar MF 0.5 Modular

Product Catalogue

ACO Clarimar MF 0.5 Modular

ACO Clarimar® MF Sewage Treatment Plants / IMO MEPC 227 (64)

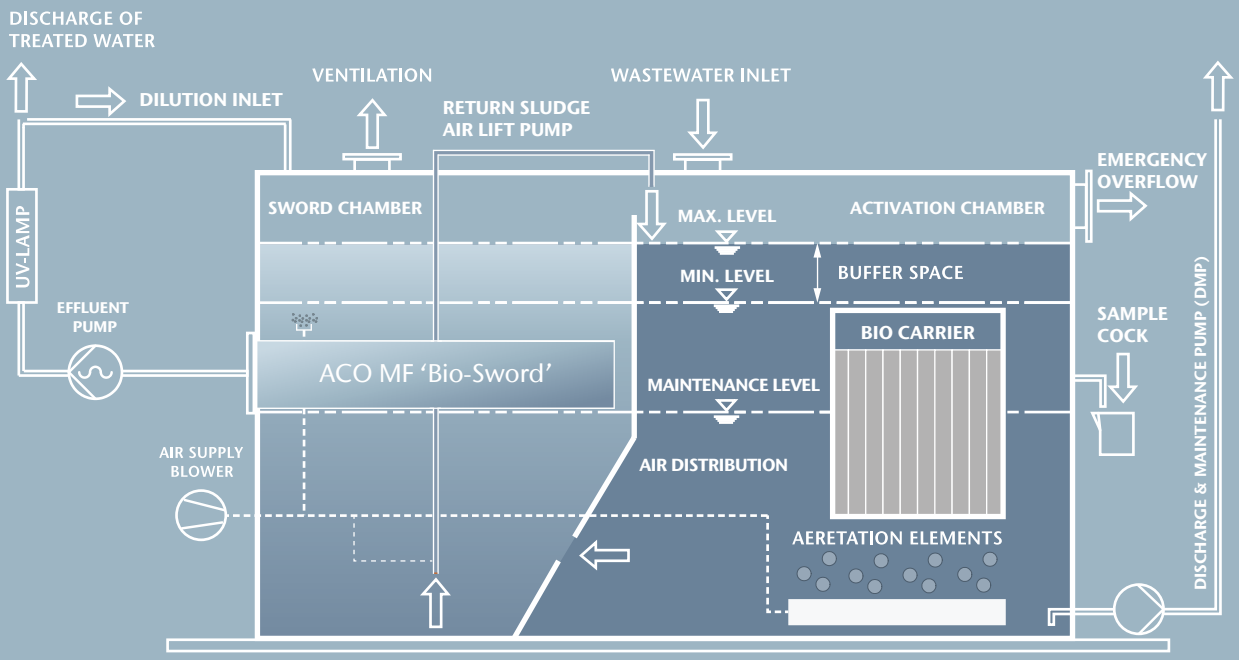
ACO Clarimar MF Modular 'Bio-Sword' Filtration Technology

- The ACO Clarimar MF biological sewage treatment plant incorporates ACO-MF filtration technology eliminating the requirement for settling and chlorination stages. Disinfection of the treated effluent is by in-line mounted UV lamp with no requirement for chemicals in any part of the ACO MF process.
- Type approved to IMO MEPC 227(64) and EC MED Module 'B'
- Compatible with both gravity and vacuum systems
- Manufactured entirely in the EU from high performance materials which, unlike coated black steel, are completely corrosion resistant and light weight
- Flat-Pack available for retrofit and repair installations
- Lowest running costs of any sewage treatment plant on the market with minimal operator intervention
- Simple automated operation requires minimal operator intervention and maintenance
- Smallest footprint biological STP on the market designed to pass through a standard deck hatch or doorway without the need for any adaptations
- Retrofit STP solution – can be split into two separate modules optimising available space
- Two blank sides allow installation into a tight corner and reduces maintenance envelope
- No painting or surface treatment required

Process Description

Sewage and wastewater enters into the main activation stage where it is thoroughly mixed and aerated by fine bubble aeration membrane elements. Blower(s) provide air to the aeration elements whose innovative design allows quick and easy removal for cleaning. Aerobic bacteria and micro-organisms, naturally present within the waste material, break down the organic matter into mostly carbon dioxide, water and inert non-organic material.

Throughout the process the bacteria cells continue to reproduce new organisms to sustain the biological process. High efficiency of purification is ensured by the use of biocarrier. Clean water from the mixed liquor in the sword chamber is drawn through the ACOM F 'bio-sword' by the effluent discharge pump and discharged either directly overboard or into ship's storage.



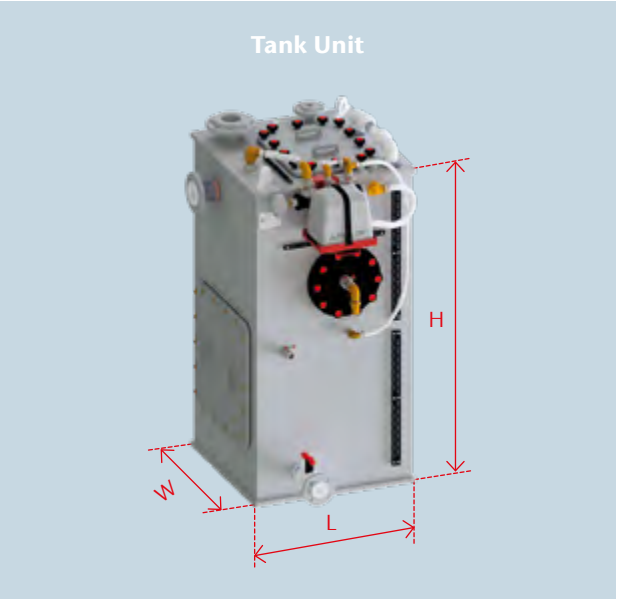
Technical Description

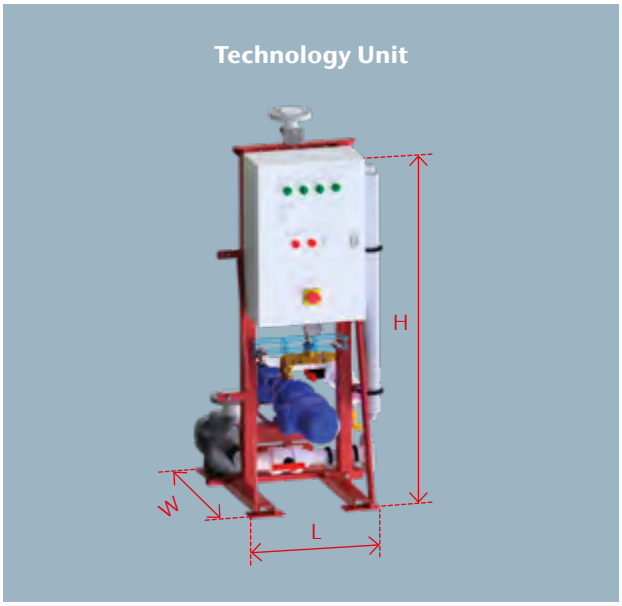
The main tank is manufactured entirely within the EU from high performance '**ACO Composite PPFR GREY**' material which, unlike coated black steel, is light weight and completely resistant to corrosion, abrasion and chemical attack. Available as standard in grey colour. **Clarimar MF 0.5 Modular** is delivered divided into two main parts, the **"Tank"** and the **"Technology Unit"**. Once these two main parts are installed at their location, a few more components and connections are added, however all connections are bolted or screwed so no welding is required. Our goal has been to provide, as much as possible, a 'plug & play' solution. All Clarimar MF 0.5 installed components are designed to operate, as standard, in the voltage range 380 to 440 volts and at frequencies of either 50 or 60 Hz, without any additional modification. Additional voltage options are also available. Control of the system is via an IP55 rated steel cabinet complete with safety isolator and volt-free contacts for connection to the ship's central monitoring and alarm system.

Typical Customer

- Port and inshore workboats
- Smaller offshore rig crew boats and supply vessels
- Coastal fishing vessels
- Short journey fast catamaran ferries

Clarimar MF 0.5	Hydraulic Load	BOD5 Load	Overall Dimensions			Weight	
			L	W	H	Dry	Wet
	[lits/day]	[kg/day]	[mm]			[kg]	
Tank Unit	1200	0.77	876	1077	1631	170	867
Technology Unit			598	986	1423	92	92





ACO Marine Contacts
Online information