

### Oily Water Separator CS0500



**The Victor MiniSep™ - CS Series** is a bilge oily water separator that is specifically engineered for the marine environment. Using Victor Marine's 80 years of experience in providing solutions to bilge water treatment, the company has incorporated the latest technology to ensure that the oily water separator complies with the latest IMO regulation MEPC 107(49) introduced in January 2005.

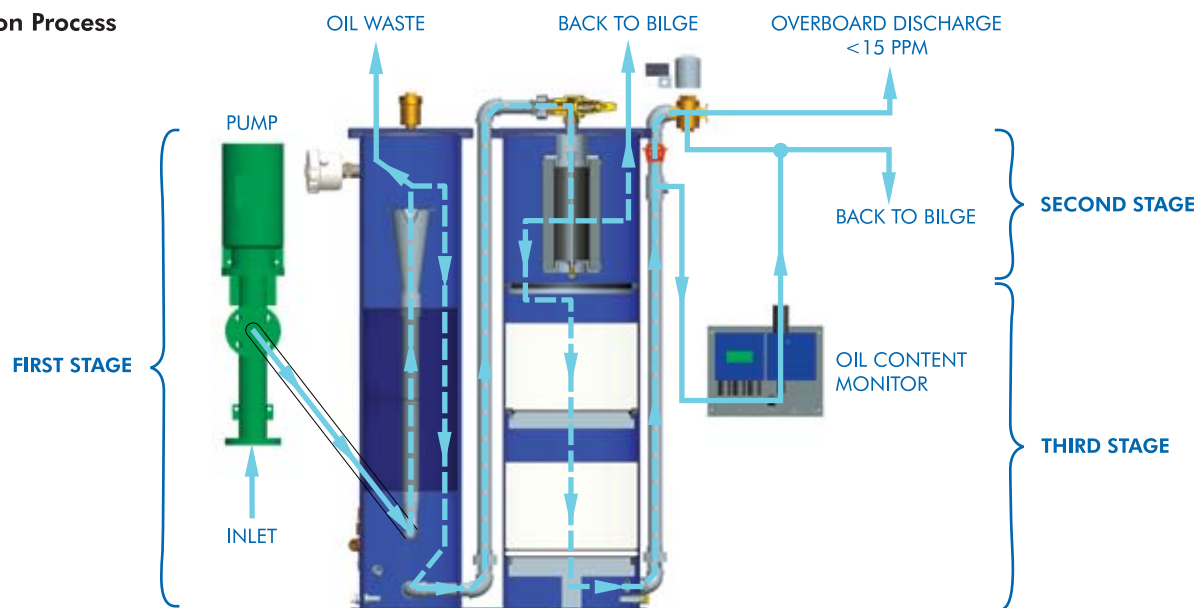
The CS Series is designed to fit the smallest engine rooms whilst maintaining reliable operation and ease of use for shipboard engineers. The CS Series can maintain water overboard discharge at under 5ppm oil content as proven during the IMO tests completed by LRS, USCG and CCS. To ensure this high quality separation, Victor Marine's CS Series uses a three stage separation process which includes a hydrophobic high viscosity removal system (Hi-VOR system), an oleophilic coalescing filter element and an adsorption granular media polishing unit (AGM filtration).

A 15ppm oil content monitor complete with diverter valve set is provided to ensure the quality of water meets the IMO regulations and avoids any illegal discharges overboard.

With no high speed moving parts, delicate membranes, hazardous chemicals or cleaning cycles the CS Series is both easy to install and operate for both the shipyard and ship operators. The AGM granular media has been refined to adsorb over of 60% its weight in oil contaminants (compared to approx. 15% in activated carbon) which increases the time that the consumables have to be replaced, minimising costs and maximising uptime. With Victor Marine's in-house engineering and testing facilities they can advise customers to select the best solution for their vessels. The CS Series can be supplied with a range of certificates and process options.

Victor Marine maintains a worldwide network of agents who can provide our customers a comprehensive after-sales service of technical support, commissioning, servicing and spares.

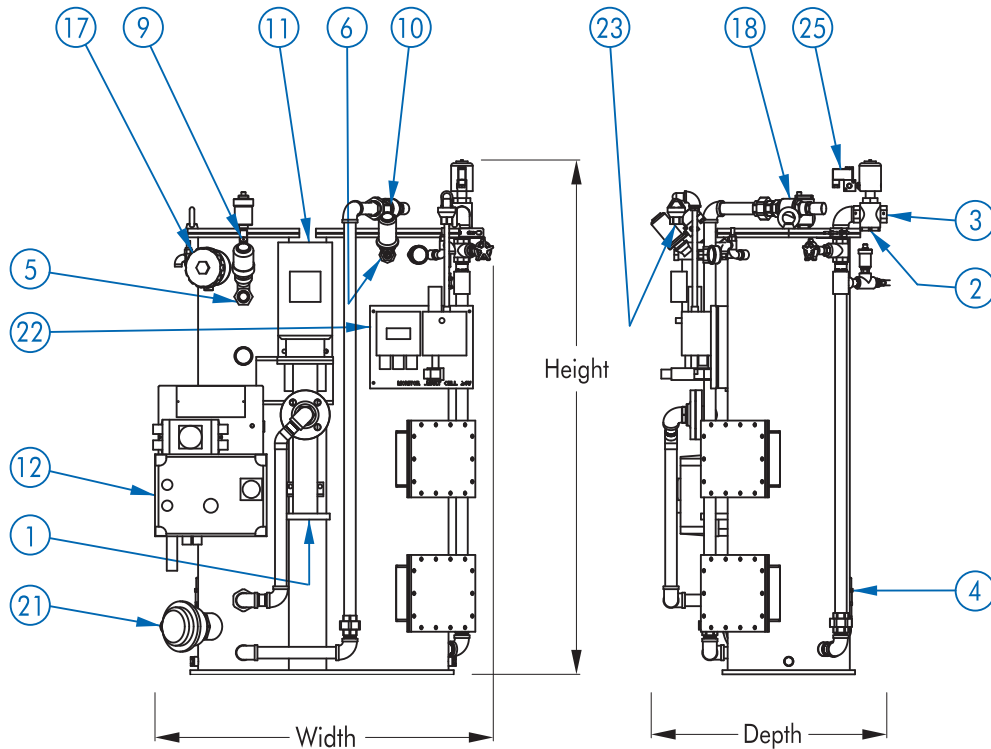
### Separation Process



### CS Series Data

Model No.	Capacity		Dimensions (mm)			Weight (Kg)		Current Draw (amps)	Primary fluid connections				Air connections
	m <sup>3</sup> /day	US gal/hr	Width	Depth	Height	Dry	Wet		Inlet suction	Overboard discharge	Back to bilge	Recovered oil	
CS0250	6	66	974	683	1474	255	350	1.62	32mm PN16 flange	1" bsp	1" bsp	1" bsp	1/4" bsp
CS0500	12	132	974	683	1474	255	350	1.62	32mm PN16 flange	1" bsp	1" bsp	1" bsp	1/4" bsp
CS1000	24	246	1372	858	1474	540	990	2.07	2" bsp	1" bsp	1" bsp	1 1/2" bsp	1/4" bsp
CS2000	48	528	1372	858	1474	540	990	2.57	2" bsp	1" bsp	1" bsp	1 1/2" bsp	1/4" bsp
CS3000	72	738	1521	986	1547	700	1430	3.45	2" bsp	1 1/2" bsp	1 1/4" bsp	1 1/2" bsp	1/4" bsp
CS4000	96	984	1521	986	1547	700	1430	3.45	2" bsp	1 1/2" bsp	1 1/4" bsp	1 1/2" bsp	1/4" bsp
CS5000	120	1230	1659	1062	1547	800	1680	4.45	2" bsp	1 1/2" bsp	1 1/4" bsp	1 1/2" bsp	1/4" bsp

NOTE: A heater requires an additional 2.5 amps current draw.



- ① INLET SUCTION CONNECTION
- ② OVERBOARD DISCHARGE CONNECTION
- ③ BACK TO BILGE CONNECTION
- ④ PRESSURE RELIEF VALVE CONNECTION
- ⑤ RECOVERED OIL CONNECTION
- ⑥ BACK TO BILGE OILY WATER CONNECTION
- ⑨ AIR CONNECTION
- ⑩ AIR CONNECTION
- ⑪ SUCTION PUMP
- ⑫ DOL STARTER (ELECTRICAL CONNECTION)
- ⑰ OIL DETECTION PROBE
- ⑳ HEATER (OPTIONAL)
- ㉑ OIL CONTENT MONITOR
- ㉒ MONITOR SAMPLE CONNECTION
- ㉓ AIR CONNECTION

#### Operating Temperature

Minimum: 10°C (50°F)  
 Optimum: 30°C (86°F)  
 Maximum: 55°C (131°F)

#### Operating Pressure

Normal: 1.38 bar (20psi)  
 Maximum: 3.45 bar (50psi)

#### Air Supply

Required Pressure: 5-7 bar (75-100psi)

#### Pump Performance

Maximum Suction: 6 metres (20ft)  
 Maximum Discharge: 30 metres (98ft)

#### IMO Tested Parameters

Maximum Oil Flow: 100%  
 Maximum Oil Density: 0.989 s.g. @ 15°C  
 Maximum Oil Viscosity: RMG 35  
 Maximum Emulsions: 3000 ppm

#### Type Approval & Certification

IMO MEPC 107(49): LRS, CCS & USCG



The manufacturers reserve the right to alter the specification and data to incorporate improvements in design. Certified drawings will be issued on request.

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