

CPS B MKIII



Facet International has been globally recognized as a leading liquid/liquid separation company for over 50 years. Using expertise gained in refineries, petrochemical facilities and in the handling of aviation fuels, Facet developed its first IMO approved bilge water treatment package over 20 years ago. Since then it has constantly developed this to encompass the needs of the Marine Industry, producing horizontal and vertical units to utilize space available. As part of its product range, Facet produces the smallest approved bilge separator in the world!

In keeping with its progressive approach, Facet is once again in the forefront of marine oily wastewater separation with its all new CPS MK III range of separators. These separators meet all the requirements of IMO MEPC.60(33) for both light and heavy (S.G. 0.98) oils without the use of consumables such as filter elements or coalescing pads. Many of Facet's competitors have evolved systems which depend upon such consumables to work. Although these may offer the operator inducements in terms of reduced capital costs, most require the equivalent of this initial outlay each year in consumables to perform. This is a major drawback which should be considered when selecting equipment.

DEVELOPMENT AND OPERATION

Unlike their predecessors the CPS MK III separators use Facet's new patented MPak[®] coalescing plates. These were developed as part of an ongoing research program which was fully supported by extensive field evaluation.

The final package is extremely cost effective and can separate oil from water to levels below 15 ppm without using consumables. On this system, the integral pump has been located on the discharge side of the unit, reducing shear and improving considerably its 'run-dry' characteristics.

DESIGN AND CONSTRUCTION FEATURES

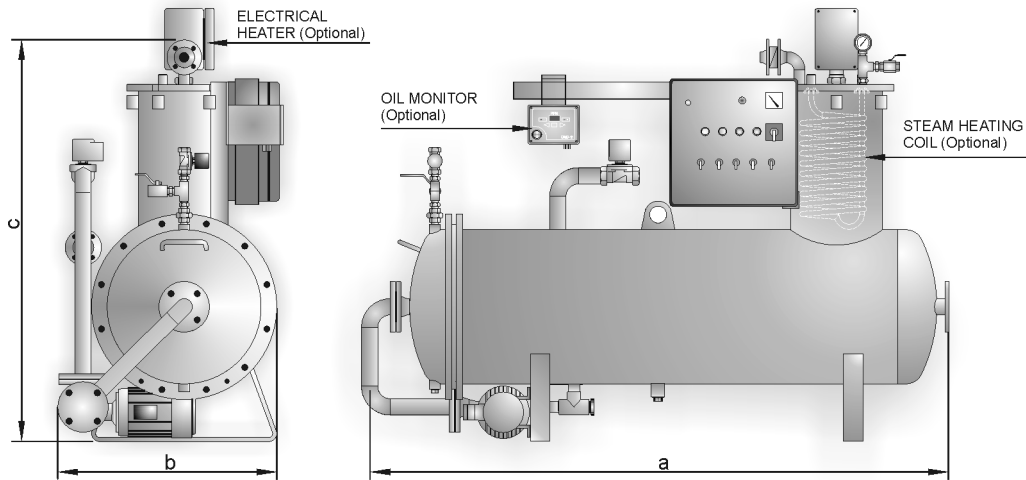
- The Facet CPS MK III systems are more compact than previous models and cover flow rates from 0.5 m³/h (2.2 US GPM) to 15 m³/h (66 US GPM).
- They are ready to install, coming complete with pump, valves and control systems, including level control.
- With the exception of the pumps and valve solenoids they have no moving parts. Even the level controller is solid state and has no float.
- Maintenance requirements are very low, being restricted to occasional hosing down of the plate packs. Access for cleaning is extremely simple with the packs being contained in an integral "roll out" trough.
- Separated oil normally contains less than 5% water and can be burned, if required. Oil discharge is facilitated by connection to the ships pressurized clear water system, eliminating the need for a second pump or a compressed air supply.
- The electrical system is available in either 50 or 60 Hz.

ACCESSORIES

- Steam or electrical heaters can be fitted in the oil dome to aid the discharge of heavy oils.

CERTIFICATION AND OPERATIONAL EXPERIENCE

Facet International's CPS MK III systems have been tested and approved to the requirements of IMO MEPC.60(33) for use with light and heavy (S.G. 0.98) oils. They have been certified by most registration authorities, including those of the USA and EC. The cost effectiveness and operational reliability of Facet units has been proven many times since their introduction in 1978. We will be pleased to provide a reference list if required.



MODEL	a		b		c		SHIP WEIGHT		ORDER WEIGHT		FLOW RATE	
	Inches	mm	Inches	mm	Inches	mm	Lbs.	Kg.	Lbs.	Kg.	gpm	m ³ /hr.
CPS-2,5B MKIII	36-5/8"	931	30-3/4"	781	48"	1218	388	176	646	293	2.2	0.5
CPS-5B MKIII	47-1/4"	1199	30-3/4"	781	54-1/2"	1385	456	207	827	375	4.4	1
CPS-10B MKIII	71-3/4"	1822	26-3/4"	680	51-5/8"	1310	695	315	1257	570	11	2.5
CPS-25B MKIII	64-1/2"	1637	43-3/8"	1100	78-7/8"	2003	1205	547	2900	1315	22	5
CPS-50B MKIII	90-1/2"	2298	43-3/8"	1100	89-1/2"	2275	1385	628	4000	1814	44	10
CPS-75B MKIII	95-1/2"	2425	53-3/8"	1355	93-1/2"	2375	2600	1180	6515	2955	66	15

FLOW DIAGRAM

1. Bilge
2. Inlet
3. Pump
4. Mpak® Plate Pack
5. Water Outlet
6. Oil Outlet
7. Sludge Drain
8. Control System

ACCESSORIES

9. Bilge Alarm/Monitor (IMO Approved)
10. Return to Bilge Valve
11. Steam Connection

Facet also supplies the shipping industry worldwide with filters for lube oil, diesel and heavy fuel oil, and water separators for diesel and gas turbine engines.

