



IMO

E

Ref. T5/1.01

MEPC.5/Circ.9
31 August 2005

POLLUTION PREVENTION EQUIPMENT REQUIRED BY MARPOL 73/78

1 MARPOL 73/78 requires ships to be fitted with certain pollution prevention equipment (PPE), including oil filtering equipment, oil content meters, oil/water interface detectors and sewage treatment plants. Such equipment should be of the type which has been approved by Governments in accordance with the relevant resolutions adopted by the Organization.

2 Over the years, the Organization has adopted a series of resolutions on PPE performance and test specifications, which include the following:

- .1 Guidelines and Specifications for Pollution Prevention Equipment for Machinery Space Bilges of Ships (resolution MEPC.60(33));
- .2 Revised Guidelines and Specifications for Oil Discharge Monitoring and Control Systems for Oil Tankers (resolution A.586(14));
- .3 Specification for Oil/Water Interface Detectors (resolution MEPC.5(XIII)) ;
- .4 Recommendation on International Effluent Standards and Guidelines for Performance Tests for Sewage Treatment Plants (resolution MEPC.2(VI));
- .5 Standard Specification for Shipboard Incinerators (resolution MEPC.59(33));
- .6 Revised Guidelines and Specifications for Pollution Prevention Equipment for Machinery Space Bilges of Ships (resolution MEPC.107(49)); and
- .7 Revised Guidelines and Specifications for Oil Discharge Monitoring and Control Systems for Oil Tankers (resolution MEPC.108(49)).

3 It should be noted that the Standard Specification for Shipboard Incinerators contained in Appendix 2 to the Revised Guidelines for the Implementation of Annex V of MARPOL 73/78 adopted by resolution MEPC.59(33) is superseded by the new Standard Specification for Shipboard Incinerators adopted by resolution MEPC.76(40), as amended by resolution MEPC.93(45), as a result of the adoption of Annex VI of MARPOL 73/78 - Regulations for the Prevention of Air Pollution from Ships.

4 It should also be noted that the Revised Guidelines and Specifications for Pollution Prevention Equipment for Machinery Space Bilges of Ships adopted by resolution MEPC.107(49) on 18 July 2003 supersedes the Guidelines and Specifications for Pollution Prevention Equipment for Machinery Space Bilges of Ships adopted by resolution MEPC.60(33) on 30 October 1992; and that the Revised Guidelines and Specifications for Oil Discharge Monitoring and Control Systems for Oil Tankers adopted by resolution MEPC.108(49) on 18 July 2003 are intended to replace the Guidelines and Specifications for Oil Discharge Monitoring and Control Systems for Oil Tankers adopted by resolution A.586(14) on 20 November 1985.

5 By the resolutions, Governments are also invited to inform the Organization of those PPE which have been tested and approved by them.

6 In order that PPE installed on board ships are those which have been tested and approved by Governments, the Secretariat of the Organization, since 1980, has been collecting and disseminating information on approved PPE through annual MEPC circulars.

7 In this connection, it will be recalled that MEPC 36 (31 October to 4 November 1994), taking into account the fact that certain resolutions on PPE have been superseded by others, decided that, from 1996, MEPC circulars on PPE will only list those which have been approved by Governments in accordance with resolutions MEPC.60(33), A.586(14), MEPC.5(VIII), MEPC.2(VI) and MEPC.59(33).

8 In accordance with the decision of MEPC 36, and taking into account subsequent developments, the present annual circular has the following seven annexes:

- | | |
|---------|--|
| Annex 1 | Oil filtering equipment (15ppm equipment) approved in accordance with part 1 of the Annex of resolution MEPC.60(33) |
| Annex 2 | Oil content meters (for bilge alarms) approved in accordance with part 2 of the Annex of resolution MEPC.60(33) |
| Annex 3 | Oil content meters (for oily water from cargo tanks) approved in accordance with part 1 of the Annex of resolution A.586(14) |
| Annex 4 | Oil/water interface detectors approved in accordance with resolution MEPC.5(XIII) |
| Annex 5 | Sewage treatment plants approved in accordance with resolution MEPC.2(VI) |
| Annex 6 | Shipboard Incinerators approved in accordance with appendix 2 of resolution MEPC.59(33) and resolution MEPC.76(40), as amended by resolution MEPC.93(45) |
| Annex 7 | 15 ppm Bilge Separators approved in accordance with part 1 of the Annex to resolution MEPC.107(49) |
| Annex 8 | 15 ppm Bilge Alarms approved in accordance with part 2 of the Annex to resolution MEPC.107(49) |

9 Additional annexes will be appended to subsequent issues of this Circular incorporating new PPE approved in accordance with resolutions MEPC.107(49) and MEPC.108(49), when necessary.

10 Governments are invited, as appropriate, to bring this circular to the attention of their Administrations, authorities and industries concerned.

11 It should be noted that the lists of PPE in this circular are compiled on the basis of information submitted by Governments, and that non-entry of equipment may not necessarily mean that such equipment has not been approved by Governments.

12 It should also be noted that, for control purposes of whether equipment had been approved, e.g. oil filtering equipment and oil content meters which had been approved in accordance with
I:\CIRC\MEPC\05\9.DOC

resolution A.393(X), reference could always be made to an earlier MEPC circular on PPE, especially MEPC/Circ.296, which listed all pollution prevention equipment approved by Governments before 1995.

13 With the aim of having a concise yet adequate MEPC Circular on approved PPE, it would be highly appreciated if Governments could, when submitting the certificates of PPE newly approved by them, attach a list of such equipment in accordance with the established “one-line” entry format of this circular for each type of equipment.

ANNEX 1

OIL FILTERING EQUIPMENT

(15 ppm equipment)

Approved in accordance with part 1 of the Annex to
resolution MEPC.60(33)

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
1. China	1. Shanghai Marine Instrument & Equipment Works 200 Minseng Road Shanghai	ZYF-0.25 ZYF-0.5 ZYF-1 ZYF-1.5 ZYF-3 ZYF-5 ZYF-10	0.25 0.50 1.0 1.5 3.0 5.0 10.0	China China China China China China China
2. Germany	1. NFV nord-deutsche Filter-Vertriebs-GmbH Glashüttenstr. 79 20357 Hamburg	MOWS-100 MOWS-250 PPT-BWS-100 PPT-BWS-250 PPT-BWS-500 PPT-BWS-1000 PPT-BWS-2500 PPT-BWS-5000 PPT-BWS-10000	0.1 0.25 0.1 0.25 0.5 1.5 2.5 5.0 10.0	FRG FRG FRG FRG FRG FRG FRG FRG FRG
	2. Blohm & Voss AG Hermann-Blohmstr. 3 20457 Hamburg	TCS-0.25-HD TCS-0.5-HD TCS-1-HD TCS-2.5-HD TCS-5-HD TCS-10-HD	0.25 0.5 1.0 2.5 5.0 10.0	FRG; China; RF FRG; China; RF FRG; China; RF FRG; China; RF FRG; China; RF FRG; China; RF
	3. DVZ-Services GmbH Kirchweyher Strasse 8, D-28844 Weyhe, Germany	DVZ 150VC DVZ 250VC DVZ 500VC DVZ 1000VC DVZ 1500VC DVZ 2500VC DVZ 5000VC DVZ 7000VC DVZ 250PC DVZ 500PC DVZ 1000PC DVZ 2500PC DVZ 5000PC DVZ 10000PC DVZ 7500PC	0.15 0.25 0.5 1.0 1.5 2.5 5.25 7.0 0.25 0.50 1.0 2.5 5.0 10.0 7.5	Italy China; FRG; RF; Italy China; FRG; RF; Italy China; FRG; RF; Italy FRG China; FRG; RF; Italy China; FRG; RF; Italy China; FRG; RF; Italy FRG FRG FRG FRG FRG FRG FRG

Note: Ar: Argentina; Belg: Belgium; BG: Bulgaria; Can: Canada; Cro: Croatia; Den: Denmark; Fin: Finland; Fr: France; FRG: Federal Republic of Germany (Germany); Gr: Greece; Ice: Iceland; Indo: Indonesia; Jpn: Japan; Lux: Luxembourg, Grand Duchy; Neth: Netherlands; Nor: Norway; Pol: Poland; P: Portugal; RF: Russian Federation; ROK: Republic of Korea; Sig: Singapore; Sw: Sweden; UK: United Kingdom of Great Britain and Northern Ireland; USA: United States of America; Yugo: Yugoslavia.

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
2. Germany (Cont'd)	4. RWO GmbH Leerkämpe 3 D-28259 Bremen	SKIT S 0.1 SKIT S 0.25 SKIT S 0.5 SKIT S 1.0 SKIT S 1.5 SKIT S 2.5 SKIT S 5.0 SKIT S 10.0	0.1 0.25 0.5 1.0 1.5 2.5 5.0 10.0	China; FRG; RF China; FRG; RF China; FRG; RF China; FRG; RF China; FRG; RF China; FRG; RF China; FRG; RF China; FRG; RF
	5. Facet Deutschland GmbH St. Huberter Str. 21 D-47906 Kempen	CPS-2.5 B MK III CPS-5B MK III CPS-10B MK III CPS-50B MK III	0.5 1.0 2.5 5.0 10.0	FRG FRG FRG FRG FRG
	6. Westfalia Separator Mineraloil Systems GmbH Werner-Habig-Str.1 D-59302 Oelde Germany	WSC 5-01-006 WSC 25-01-006 WSD 18-01-037	1.5 6.0 3.0	FRG FRG FRG
	7. B + V Industrie-technik GmbH Hermann-Blohm-Str.5 20457 Hamburg Germany	Turbulo Entöler: TPC 0.25H TCS 0.25HD TCS 0.5HD TCS 1.0HD TCS 2.5HD TCS 5.0HD TCS 10.0HD	0.25 0.25 0.5 1.0 2.5 5.0 10.0	FRG FRG FRG FRG FRG FRG FRG
3. Greece	Environmental Protection Engineering S.A. 24, Dervenakion Str., Piraeus 185-45, Greece	POSEIDON 2000 SP 1.0 POSEIDON 2000 SP 2.5 POSEIDON 2000 SP 5.0 POSEIDON 2000 SP 7.5 POSEIDON 2000 SP 10.0	1.0 2.5 5.0 7.5 10.0	Gr; Nor

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
4. Japan	1. Taiko Kikai Industries Co. Ltd. 209-1 Shimo Tabuse Tabuse Cho Kumage-gun Yamaguchi Pref. Japan 742-15	USC-01 USC-03 USC-05 USC-10 USC-20 USC-50	0.15 0.25 0.5 1.0 2.0 5.0	China UK; China UK; China UK; China UK; China UK; China
	2. Sasakura Engineering Co. Ltd. Osaka	SMT-1A SMT-2A SMT-3A SMT-5A SMT-10A	1.0 2.0 3.0 5.0 10.0	UK; Nor UK; Nor UK; Nor UK; Nor UK; Nor
	3. Heishin Pump Works Co., Ltd. 5-30, 1-chome, Furuta, Harima-cho, Kako-gun, Hyogo Prf., 675-01 Japan	HMS-30 HMS-50 HMS-80 HMS-100 HMS-200 HMS-250 HSN-2F HSN-3F HSN-5F HSN-10F	0.3 0.5 0.8 1.0 2.0 2.5 2.0 3.0 5.0 10.0	FRG; UK; RF; Nor FRG; UK; RF; Nor FRG; UK; RF; Nor FRG; UK; RF; Nor FRG; UK; RF; Nor FRG; UK; RF; Nor RF; Nor FRG; UK; RF; Nor FRG; UK; RF; Nor RF; Nor
5. Lithuania	Shipbuilding Yard "Baltija" Pilies St. 8 5799 Klaipeda	VKF 0.6 VKF 1.6 VKF 2.5	0.6 1.6 2.5	RF RF RF
6. Netherlands	1. Facet Industrie BV Draaibutweg 10 1332 AD Almete - De Vaart	CPS-2.5 BV MOD I CPS-5 BV MOD I	0.5 1.0	FRG; Neth; UK FRG; Neth; UK
	2. Promac B.V. The Netherlands	AQUACLEANER -C-BW-2-S-6 AQUACLEANER -C-BW-S-24 AQUACLEANER -C-BW-160 AQUACLEANER -C-BW-2-S-24 AQUACLEANER -C-BW-2-S-48 AQUACLEANER -C-BW-4-S-48	0.03 0.06 0.1 0.12 0.24 0.48	Neth. Neth. Neth. Neth. Neth. Neth.
7. Norway	Merlin Clearwater AS, Kristiansand Norway	CLEAR WATER SEP 2500	2.5	Nor

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
7. Norway (Cont'd)	2. Goodtech ASA Stokke Norway	LENSEP SP 1000A LENSEP SP 2500A LENSEP SP 5000A	1.0 2.5 5.0	Nor Nor Nor
8. Poland	P.Z.U.O. "WARNA" - Grudzi dz	NEPTUN 0.25 B1 NEPTUN 0.5 B1 NEPTUN 1.0 A1, 1.0 B1 NEPTUN 2.5 A1 NEPTUN 5.0 A1	0.25 0.5 1.0 2.5 5.0	Pol; FRG Pol; FRG Pol; FRG Pol; FRG Pol; FRG
9. Republic of Korea	1. Han Young Engineering Co., Chung-Gu Inchon	OS - 0.15 OS - 0.3 OS - 0.5 OS - 1.0 OS - 2.0 OS - 3.0 OS - 5.0 OS - 10.0	0.15 0.3 0.5 1.0 2.0 3.0 5.0 10.0	ROK ROK ROK; RF; Nor ROK; RF; Nor ROK; Nor ROK; Nor ROK; Nor ROK; Nor
	2. GeoRim Engineering Co., Seo-Gu Busan	UST - 02G UST - 03G UST - 05G UST - 10G UST - 20NG UST - 50NG UST - 100NG POS - 2000 POS - 5000 POS - N2 POS - N5 POS - N10	0.2 0.3 0.5 1.0 2.0 5.0 10.0 2.0 5.0 2.0 5.0 10.0	ROK ROK; Nor ROK; Nor ROK; Nor ROK; Nor ROK; Nor ROK; Nor Nor Nor Nor Nor Nor
	3. Korea Ship's Chandler Co., Ltd., Yeoungdo-Gu Busan	KSO-01A KSO-02A KSO-03A KSO-05A KSO-10A KSO-20A KSO-50A	0.1 0.2 0.3 0.5 1.0 2.0 5.0	ROK ROK ROK ROK ROK ROK ROK
	4. Marine Technical Engineering Co., Ltd., Keumjung-Gu Busan	MTE FL-10 MTE FL-20 MTE FL-50 MTE FL-10	1.0 2.0 5.0 10.0	ROK ROK ROK ROK
	5. Georim Engineering Co., Seo-Gu Busan	PSO-2000 PSO-5000	2.0 5.0	ROK ROK

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
10. Russian Federation	1. "EKOS Ltd." Barrikadnaja St.36 Fl. 8 198096 ST. St. Petersburg	OHB-0.1m OHB-0.5m OHB-1m OHB-0.5m/n OHB-1.0m/n OHB-1.6m/n	0.1 0.5 1.0 0.5 1.0 1.6	RF RF RF RF RF RF
	2. A/S "Sudotechnika" N. Novgorod	OHB-4	0.2	RF
11. Spain	DETEGASA Ctra. Castro-Meiras 1550 Valdoviño La Coruña	DELTA OWS-0.5 DELTA OWS-1 DELTA OWS-2 DELTA OWS-3.75 DELTA OWS-5	0.5 1 2 3.75 5	Spain Spain Spain Spain Spain
12. Sweden	1. JOWA AB Gothenburg Sweden	JOWA OIL – A TRIOSEP	1.0 2.5 5.0 10.0	Nor Nor Nor Nor
	2. Alfa Laval Tumba AB Tumba Sweden	CentriBilge 5000	5.0	Nor
13. Ukraine	1. PKB "Progress" Nikolaev	UOV 0.6/10 UOV 0.6/10P UOV 1.6/10 UOV 2.5/10	0.6 0.6 1.6 2.5	RF RF RF RF
	2. Shipyard "Ocean" Nikolaev	CK 10M2	10.0	RF
	3. Pilot Production of YuzhNI IMF Odessa	USFA-0.6 USFA-1.6 USFA-4 USFA-5 USFA-10 USF-4M	0.6 1.6 4.0 5.0 10.0 4.0	RF RF RF RF RF RF
14. United Kingdom	1. Hamworthy Engineering Ltd. Poole, Dorset	HS 1 Mk II HS 2.5 Mk II HS 5 Mk II HS 10Mk II	1.0 2.5 5.0 10.0	UK; FRG; Pol; RF UK; FRG; Pol; RF UK; FRG; Pol; RF UK; Pol; RF
	2. Parmatic Esplen Ltd. Scunthorpe England	'Comyn' Oily Water Separating Module	5.0	UK

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m ³ /h	Approving Governments
14. United Kingdom (Cont'd)	3. Hodge Separators Ltd. 1 Jennings Road Kerwick Industrial Estate Penryn Cornwall TR10 9 LY	Victor 2 Stage: MS Series 0.5 m ³ /h MS Series 1 m ³ /h MS Series 2 m ³ /h MS Series 3 m ³ /h MS Series 4 m ³ /h MS Series 5 m ³ /h MS Series 10 m ³ /h	0.5 1.0 2.0 3.0 4.0 5.0 10.0	UK UK UK UK UK UK UK
15. United States	1. Ensolve Biosystems, Inc. 3209 Gresham Lake Rd. Suite 147 Raleigh, NC 27615	Petrolimator 100 Petrolimator 300 Petrolimator 630	0.23 0.34 0.45	USA USA USA
	2. RGF Environmental Systems, Inc. 3875 Fiscal Court West Palm Beach, FL 33404	RGF 4000C	0.17	USA
	3. Facet International, Inc. P.O. Box 50096 (74150) 9910 E. 56th St. North Tulsa, OK 74117	CPS-2.5B MK III CPS-5B MK III CPS-10B MK III CPS-25B MK III CPS-50B MK III CPS-75B MK III CG-25 CG-25EXP CPS-1.6 CPS-3.2 OPB-10NP/ SR02-220	0.50 1.0 2.5 5.0 10.0 15.0 5.7 5.7 0.36 0.727 2.27	USA USA USA USA USA USA USA USA USA USA USA
	4. Harco Manufacturing Co. 7700 SW 69th Ave. Portland, OR 97223	HMC 1-2 HMC 1-4 HMC 1-6 HMC 1-8	0.45 0.90 1.36 1.8	USA USA USA USA
	5. National Fluid Separators, Inc. P.O. Box 330 Route 3, Highway U Cole Camp, MO 65325	Bilgemaster II 2GPM Bilgemaster II 5GPM Bilgemaster II 10GPM	0.46 1.14 2.27	USA USA USA
	6. Nelson Division Ink. Highway 51 West P.O. Box 428 Stoughton, WL.53589	Nelson Model 10025 Nelson Model 10075	0.5 2.0	RF RF

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
15. United States (Cont'd)	7. Parmatic Pollution Control Corp 88 Ford Road Denville, NJ 07834-1634	S2-25	5.68	USA
		S2-4-A	0.90	USA
		S2-8-A	1.80	USA
		S2-4-A5	0.90	USA
		S2-8-A5	1.80	USA
		S2-8-C5	1.80	USA
		S2-3.5T	3.50	USA
		S2-1T	0.90	USA
		S2-2TA	1.80	USA
		S2-2T	1.80	USA
		S2-0.5T	0.45	USA
		S2-10-A	2.27	USA
		S2-16-A	3.60	USA
		S2-20-A	4.50	USA
		S2-50-A	11.36	USA
		S2-8-L	1.80	USA
		S2-33-A	7.27	USA
	8. Recovered Energy Incorporated 15138 West Hunziker Road Pocatello, ID 83202	BOSS 5	1.1	USA
		BOSS 10	2.3	USA
		BOSS 25	5.7	USA
		BOSS 45	10.2	USA
	9. Separation & Recovery Sys. 1762 McGaw Avenue IRVINE, California 92714	SAREX 5 GPM	1.14	Italy; RF
		Tipo OWS	2.27	Italy; RF
		SAREX 10 GPM	4.54	Italy; RF
		Tipo OWS	0.227	Italy; RF
		SAREX VGS-1	0.45	Italy; RF
		SAREX VGS-2	1.14	Italy; RF
		SAREX VGS-5 GPM	2.27	Italy; RF
		SAREX VGS-10	13.62	Italy; RF
		SAREX 60 GPM	22.7	Italy; RF
		SAREX 100 GPM	22.7	RF
	10. Separation Technologies 2931 Elm Hill Pike Nashville, TN 37214	SAREX VGS-25	5.675	RF
		SAREX VGS-50	11.35	RF
		BB 00311 DXX	0.568	USA
		BB 00322 DXX	0.568	USA
	11. Village Marine Tec. 2000 West 135th Street Gardena, CA 90249	BB 00811 DXX	2.26	USA
		BB 00822 DXX	2.26	USA
		OWS 2.2	0.50	USA
		OWS 4.4	1.0	USA
		OWS 8.8	2.0	USA
		OWS 11	2.5	USA

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
15. United States (Cont'd)	12. Coffin World Water System, Inc. 1762 McGaw Avenue Irvine, CA 92714	HELI-SEPT 500 HELI-SEPT 1000 HELI-SEPT 2000 HELI-SEPT 2500 HELI-SEPT 5000 HELI-SEPT100000	0.5 1.0 2.0 2.5 5.0 10.0	RF RF RF RF RF RF

ANNEX 2

**OIL CONTENT METERS
(for bilge alarms)**

**Approved in accordance with part 2 of the Annex to
resolution MEPC.60(33)**

Manufacturing Countries	Manufactured by	Type and Model	Bilge Alarms (15 ppm)	Approving Governments
1. Belgium	DIGATRON bv ba Gundensporenlaan 49 3120 Tremelo	ELCOM 7	X	Lux
2. France	Seres 355, rue Albert Einstein 13793 Aix en Provence CEDEX 3	BWAM MINI S 646 A	X	Italy; RF
3. Germany	1. Deckma-RTE International Sales GmbH	OCD 1 OCD 2	X X	FRG FRG
	2. DECKMA Hamburg GmbH Kieler Strasse 316 22525 Hamburg, Germany	OCD 1 OCD 2 OCD 1M OCD 2M OMD 11 OMD 8 OMD 21	X X X X X X X	FRG; China; RF; Italy FRG; China; RF; Italy Italy; RF Italy, RF FRG; RF FRG FRG
	3. GESTRA GmbH, Münchener Straße 77, D-28215 Bremen, Germany	OR 52/3 OR 52/5	X X	FRG FRG
4. Greece	Environmental Protection Engineering S.A. 24 Dervenakion St. Piraeus 185-45 Greece	DPL-15	X	Gr; Nor
5. Japan	Fellow Kogyo Co. Ltd. Tokyo	FOCAS-1500C	X	UK; China; Nor
6. Poland	Centrum Techniki Okętowej-Gdansk	SZW-6P SZW-7 SZW-10	X X X	Pol Pol Pol

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
7. Republic of Georgia	"Tbilpribor" Works Moskovskij Avenue 24a, 380037 Tbilisi	AUF-201	X	RF
8. Republic of Korea	1. Maritime Technical Engineering Co. Ltd. Keum Jung-gu, Pusan-city	MTE-100	X	ROK
	2. Oyang Kong Joki Co. Ltd. Ansan-city Kyungki-do	OYB-1	X	ROK; Nor
9. Russian Federation	NPF «LUMEKS» Moskowskai Avenue 19, 198005 St. Petersburg	FLUORAT-411	X	RF
10. Spain	DETEGASA Ctra. Castro-Meiras 1550 Valdoviño La Coruña	DELTA HM-01	X	Spain
11. Sweden	JOWA AB Tulebo 865 42834 Kallered Goteborg	JOWA M-93	X	RF; Nor
12. United Kingdom	1. Rivertrace Engineering Ltd. Sutton, Surrey England	OCD 1 OCD 2 OCD 1M OCD 2M OCD CM	X X X X X	FRG FRG RF; UK RF; UK Lux
	2. Bristol Babcock Ltd. Croydon, England	OPM 1	X	UK
13. United States	1. HF Scientific, Inc. 3170 Metro Parkway Fort Myers, FL 33916-7597	BA/1 20075	X X	USA USA
	2. Inventive Systems, Inc. P.O. Box 220 Lexington Park, MD 20653	BA – 200 OS – 100M	X X	USA USA

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m3/h	Approving Governments
13. United States (Cont'd)	3. Separation & Recovery Sys. 1762 McGaw Avenue IRVINE, California 92714	SAREX BA - 1 OCA-1	X X	Italy; RF RF
	4. Turner Designs 845 W. Maude Ave. Sunnyvale, CA 94086	TD-4100 XD with bubbletrap	X	USA
		TD-4100 XD without bubbletrap	X	USA
		TD-4100 with bubbletrap	X	USA
		TD-4100 without bubbletrap	X	USA
	5. Coffin World Water System, Inc. 1762 McGaw Avenue Irvine, CA 92714	BA - 100	X	USA

ANNEX 3

OIL CONTENT METERS

(for oily water from cargo tanks)

Approved in accordance with part 1 of the Annex to resolution A.586(14)

Manufacturing Countries	Manufactured by	Type and Model	Acceptable for				Approving Governments
			Crude oils	"Black" products	"white" products	oil-like noxious liquid substances	
1. Finland	1. Sähköliikkeiden Oy, Vantaa, Finland ISLOI	OILI S-1000	X	X	X		Pol; FRG
	2. Sähköliikkeiden Oy, Sähkömestä PL 88 Steinhof	OILI S-1000 MARK B					RF
	3. OPTEC-International Ltd. Helsinki, Finland	OILI S-1000	X	X	X		FRG
2. France	SERES Rue Albert Einstein Z.I. d'Aix en Prov. 13762 les Milles Cedex	ODME S-663 MK II	X	X	X	X	UK; USA; Can; Pol; China; Italy; RF
		DRUR 5450 ODME S-663 MK III	X	X	X	X	UK China; RF
3. Germany	1. AEG-Aktiengesellschaft FRG	OILI S-1000	X	X	X		Pol; China
	2. AEG Telefunken 2000 Hamburg 11 Steinhof 9	OILI S-1000 MARK B					FRG; UK; RF
4. Italy	NAVALIMPIANTI Spa Salita alla Guardia, 55 Ceranesi, Genova	Sintesi 3000/2 - 30 L Sintesi 3P - 30 L Sintesi 3000 - 30 L					Italy Italy Italy

Manufacturing Countries	Manufactured by	Type and Model	Acceptable for				Approving Governments
			Crude oils	"Black" products	"white" products	oil-like noxious liquid substances	
5. Japan	1. Sasakura Engineering Co. Ltd.	OTM 17XA MK II OTM 17 OTM 18	X	X	X		UK; China; Jpn UK UK
	2. Tokyo Keiki Co. Ltd.	DR 1000					UK
	3. Hoyiba Ltd.	OCMA-1000					UK
6. Netherlands	VAF Instruments BV P.O. Box 40-3300 AA Bordrecht, The Netherlands	OILCON MK 4	X	X	X	X	Neth; UK; USA; RF
		OILCON MK 4C	X	X	X	X	USA
		ITT "OILCON" MKIV					UK
		OILCON MK5	X	X	X	X	UK; Neth; Italy; Nor
7. Republic of Korea	Seilseres Co. Ltd. Pusan, Republic of Korea	SS-2000	X	X	X	X	Nor
8. Singapore	Viking Engineering Pte Ltd. 184 Pandan Loop Singapore	MARPOIL	X	X	X	X	Sig; China; UK; RF
9. Sweden	1. JOWA AB Ringogatan 23, S-417 Gothenburg	JOWA CLEANOIL 8788 JOWA CLEANOIL 9000	X	X	X		UK UK

Manufacturing Countries	Manufactured by	Type and Model	Acceptable for				Approving Governments
			Crude oils	"Black" products	"white" products	oil-like noxious liquid substances	
9. Sweden (Cont'd)	2. JOWA AB Tulebo 865 42843 Kallered, Goteborg	JOWA CLEANOIL 9000	X	X	X	X	RF; Nor
	3. Brännströms Elektronik AB, Uddevallagatan 14, 41670 Göteborg	CLEANTRACK 900	X	X	X	X	FRG
10. United Kingdom	1. Bristol-Babcock Ltd.	OTM 18 OTM 17X OTM 18X OTM-17XA-MKII	X	X	X	X	UK; USA; Can UK FRG Can
	2. International Telephone & Telegraph Corporation	ITT OILCON MKII OILCON MK4	X	X	X		UK RF
	3. Rivertrace Engineering Ltd. Unit 5, Astra Business Centre, Bonehurst Road, Salfords, Surrey England RH1 5TL	OCD-2 OCD-10m	X	X	X	X	Can FRG, UK; RF

Manufacturing Countries	Manufactured by	Type and Model	Acceptable for				Approving Governments
			Crude oils	"Black" products	"white" products	oil-like noxious liquid substances	
11. United States	Facet/Quantek Enterprises, Industrial Division (formerly Facet Enterprises) P.O. Box 50096 Tulsa, Oklahoma 74150	MK-IX Ballast Monitor	X	X	X		USA; China

ANNEX 4

OIL/WATER INTERFACE DETECTORS

Approved in accordance with resolution MEPC.5(XIII)

Manufacturing Countries	Manufactured by	Type and Model	Portable or Permanently installed	Approving Governments
1. Germany	DECKMA GmbH Oevelgönne 69 2000 Hamburg 62	"Aquoil" I	portable	FRG
2. Greece	Environmental Protection Engineering Ltd. 88 Iroon Polytechniou Str. 185-36, Piraeus	PL-1A	portable	Gr
3. Japan	1. Riken Keiki Fine Instrument Co. Ltd. Itabashi-ku Tokyo 174	AOD-102 DC-3A	permanently portable	UK; RF; Nor Sw; RF; Jpn; Nor
	2. Nippon Corrosion Engineering Co. Ltd. Tokyo	Magicon-IIS	portable	UK; Jpn; Nor
	3. Tokyo Keiki Co. Ltd. Tokyo	UID-100-IS	permanently	UK
	4. Nippon Air Brake Co. Ltd. Hyogo, Tokyo	NABCO-MMC B2220-3	portable	China; Jpn
	5. Musasino Engineering Works Co., Tokyo	M-LMZ (LM-VA-S-30)	permanently	Nor
	6. Keihin Sangyo Comportation 13-6 Shinmachi Kanagama Yokohama	LD 3	portable	UK; Nor
	7. MMC (ASIA) Limited Kobe, Japan	D-2401-2 (restricted type) N-2401-2 (closed type)	portable portable	Nor Nor
4. Norway	1. Tanksystem A/S President Harbitz gt. 22 Oslo 2	HERMETIC UTI	portable	FRG; UK; Italy; USA; RF; Nor; Belg; China
	2. Tanksystem A/S N-1324 Lysaker	HERMETIC U/1	portable portable	China
5. Republic of Korea	3. Seil-Seres Co. Ltd. Pusan, Republic of Korea	UDT-G30	Portable	Nor
6. Russian Federation	Sudoimport Moskva, Smolenskaia-Sennaia pl 32/34	DPC	portable	RF

Manufacturing Countries	Manufactured by	Type and Model	Portable or Permanently installed	Approving Governments
7. Switzerland	Enraf Tankssystem S.A. Rue de l'Industrie 2 CH-1630 Bulle Switzerland	HERMETIC U.T.I.	portable	UK; FRG; Italy; USA; Neth; RF; Nor; Fin; Sw; Yugo; Den; Belg; China; Indo; Can
		HERMETIC UI	portable	Fin; RF; Nor; China; Belg; USA; Can
		HERMETIC UI-GT	portable	Can; Nor
		HERMETIC UTI-GT	portable	Can; Nor
		HERMETIC UTI/UI, UTI/UI-GT	portable	China; Nor
		HERMETIC UTI-GT-OPTO	portable	China
		HERMETIC UTI-2000-Touch	portable	FRG; Nor
		HERMETIC UTI/UI-Capa and UTI/UI-GT-Capa	portable	FRG
		HERMETIC UTI/UI-Opto and UTI/UI-GT-Opto	portable	FRG
		HERMETIC UTI-2000-Opto	portable	FRG; Nor
		HERMETIC UTI/UI (-Visc) and UTI/UI-GT (-Visc), UNI sensing probe	portable	FRG
		HERMETIC UTImeter Rtex and HERMETIC UTImeter Gtex	portable	FRG

Manufacturing Countries	Manufactured by	Type and Model	Portable or Permanently installed	Approving Governments
8. United Kingdom	1. A. Searle & Co. 72/82 Rosebery Ave London EC1R 4RR	"AQUOIL"	portable	UK; Nor
	2. Bestobell Mobrey Ltd. Bath Road Slough, England	"SENSALL" B-2220-3 B-2401 D-2401 B-2319 D-2319 ELECTROPULSE	permanently portable portable portable portable portable permanently	UK; Nor UK; FRG; Nor USA; UK; RF USA; UK: RF RF RF UK
	3. MMC (Europe) Ltd. Newcastle-upon-Tyne	D-2401/2UI	portable	UK; Nor
9. United States	Marine Moisture Control Co. Inip Drive Inwood, NY 11696-1096	D-2319-1 B-2401 D-2401 B-2220 D-2319	portable portable portable portable portable	UK; FRG; Nor USA; Italy USA; UK USA; UK USA

ANNEX 5

SEWAGE TREATMENT PLANTS

Approved in accordance with resolution MEPC.2(VI)

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m ³ /d	Designed Organic Loading kg/d	Approving Governments
1. Brazil	1. Tridente Ind. E. Comercio de Equipamentos Navais Ltda. 20090 Rio de Janeiro	"Super Trident" ST25X ST 2 ST 4 ST 6 ST 8 ST10 ST13 ST15 ST20 ST25 ST30 "Retrofit Trident" RT20 RT40 RT60 RT80	17.5 1.6 3.01 4.55 6.0 7.4 9.6 11.0 14.5 17.5 23.1 1.6 3.01 4.55 6.0	15 1.2 2.4 3.6 4.8 6.0 7.8 9.0 12.0 15.0 18.0 1.2 2.4 3.6 4.8	UK UK UK UK UK UK UK UK UK UK UK UK UK UK UK
	2. SEMCO SA Sao Paulo	"Super Trident" ST 2 ST 4 ST 6 ST 8 ST10 ST13 ST15 ST20 ST25 ST30 "Retrofit Trident" RT20 RT40 RT60 RT80	1.6 3.01 4.55 6.0 7.4 9.6 11.0 14.5 17.5 23.1 1.6 3.01 4.55 6.0	1.2 2.4 3.6 4.8 6.0 7.8 9.0 12.0 15.0 18.0 1.2 2.4 3.6 4.8	UK UK UK UK UK UK UK UK UK UK UK UK UK UK
2. Bulgaria	MICHAILOV MV CO. Bourgas	TYPE 434	1.5	1.8	BG
3. China	1. Shanghai Marine Instrument and Equipment Works, 200 Minseng Rd, Shanghai	CSWA-3	2.4	0.72	China

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m ³ /d	Designed Organic Loading kg/d	Approving Governments
3. China (Cont'd)	2. Taixing Ship's Machinery Works Taixing, Jiangsu	WCX-36	39.6	1.26	China
		WCX-24	26.4	0.84	China
		WCB-300(s)	22.32	15.50	China
		WCB-250(S)	18.24	13.00	China
		WCB-200(S)	14.40	10.50	China
		WCB-150(S)	10.32	8.00	China
		WCB-100(S)	7.44	5.50	China
		WCB-80	6.00	4.30	China
		WCB-60	4.56	3.30	China
		WCB-50	3.60	2.70	China
		WCB-40	2.88	2.20	China
		WCB-30	2.16	1.60	China
		WCB-25	1.75	1.25	China
		WCB-20	1.44	1.10	China
		WCB-15	1.19	0.85	China
		WCB-10	0.72	0.60	China
		WCB-6	0.42	0.21	China
	3. Zhangjiang Marine Auxiliary Machinery Factory Zhangjiang, Jiangsu	WCB-40Z	3.08	1.54	China
	4. Luzhou Machinery Works Nanjing, Jiangsu	ST1	0.85	0.6	China
		ST2	1.6	1.2	China
		ST3	2.31	1.8	China
		ST4	3.01	2.4	China
		ST6	4.55	3.6	China
		ST8	6.0	4.8	China
		ST10	7.4	6.0	China
		ST15	11.0	9.0	China
		RT-40	3.01	2.4	China
4. Croatia	1. Ekološki sistemi d.o.o., 47000 Karlovac, Mala Švar a, 155	BRODOPUR 45 BRODOPUR BP-25 BRODOPUR BP-45	3.15 1.6 3.15	2.70 1.38 2.70	RF Yugo; Cro; RF Yugo; Cro; RF
	2. tvornica Turbina d.o.o. Kneza Branimira 8 4700 Karlovac	BRODOPUR BP-25	1.6	1.38	Cro
5. Denmark	1. Atlas A/S Baltorpvej 154 DK 2750 Ballerup Copenhagen	AWWU	36.0	-	Den; Gr; Sw

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m ³ /d	Designed Organic Loading kg/d	Approving Governments
5. Denmark (Cont'd)	2. Gertsen & Olufsen AS Hørsholm Denmark	MBR 6 BG MBR 10 BG MBR 15 BG MBR 20 BG MBR 30 BG MBR 40 BG MBR 50 BG MBR 60 BG MBR 80 BG MBR 100 BG MBR 125 BG MBR 150 BG MBR 200 BG MBR 300 BG MBR 400 BG MBR 600 BG MBR 800 BG MBR 1000 BG	1.11 1.85 2.78 3.7 5.5 7.4 9.25 11.1 14.8 18.5 23.1 27.75 37 55.5 74 111 148 185	0.45 0.75 1.13 1.5 2.25 3.0 3.75 4.5 6.0 7.5 9.37 11.25 15 22.5 30 45 60 75	Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor Nor
6. Finland	1. Aquamaster- Rauma Oy P Box 220 SF-26101 Rauma	UNEX BIO-20 UNEX BIO-40 UNEX BIO-60 UNEX BIO-80 UNEX BIO-100 UNEX BIO-200 UNEX BIO-600 UNEX BIO-800 UNEX BIO SECTIONAL 20 40 60 80 UNEX Cem - 3 - 7.5 - 15 UNEX SIMULTAN - 10 - 15 - 40 - 60 - 80 - 100	1.4 2.8 4.2 5.6 7.0 14.0 42.0 56.0 1.4 2.8 4.2 5.6 72.0 180.0 360.0 3.0 4.0 12.0 18.0 24.0 30.0	0.7 1.4 2.1 2.8 3.5 7.0 21.0 28.0 0.7 1.4 2.1 2.8 28.8 72.0 144.0 1.5 2.0 6.0 9.0 12.0 15.0	Fin; RF Fin; RF Fin; RF Fin; RF Fin Fin Fin Fin Fin; RF Fin; RF Fin; RF Fin; RF Fin RF; Fin Fin Fin RF; Fin Fin Fin Fin Fin Fin

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m ³ /d	Designed Organic Loading kg/d	Approving Governments
6. Finland (Cont'd)	2. EVAC OY Purotie 1, Fin-00380 Helsinki Finland	Aqua Mar Bio Unit MSP I	2.62	1.125	FRG; Fin; RF
		Aqua Mar Bio Unit MSP II	5.75	2.47	FRG; Fin; RF
		Aqua Mar Bio Unit MSP III	7.875	3.38	FRG; Fin; RF
		Aqua Mar Bio Unit MSP IV	12.25	5.25	FRG; Fin; RF
		Aqua Mar Bio Unit MSP V	26.5	11.25	FRG; Fin; RF
		Aqua Mar Bio Unit MSP VI	44	19.5	FRG
		Aqua Mar Bio Unit MSP VII	70	21	FRG
		Aqua Mar Bio Unit MSP VIII	105	32	FRG
		Aqua Mar Bio Unit MSP IX	142	47.6	FRG
		Aqua Mar Bio Unit MSP X	172	75	FRG
		Aqua Mar Bio Unit MSP XI	158	95	FRG
		Aqua Mar Bio Unit MSP XII	350	105	FRG
		Aqua Mar Bio Unit MSP 25	4.38	1.875	FRG; Fin; RF
		Aqua Mar Bio Unit MSP 60	10.5	4.5	FRG; Fin; RF
		Aqua Mar Bio Unit MSP 80	13.12	5.63	FRG; Fin
		Aqua Mar Bio Unit MSP 150	22.5	95	FRG
		Aqua Mar Bio Unit MSP 300	38	105	FRG
		Aqua Mar Bio Unit MSP 500	90	1.875	FRG
		Aqua Mar Bio Unit MSP 800	120	4.5	FRG
		Aqua Mar Bio Unit MSP 1200	150	5.63	FRG
		EVAC STP 20	2.62	1.125	FRG
		EVAC STP 40	4.4	1.875	FRG
		EVAC STP 55	5.7	2.47	FRG
		EVAC STP 75	7.9	3.38	FRG
		EVAC STP 100	10.5	4.5	FRG
		EVAC STP 125	13.1	5.63	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
7. Germany	1. VEB Abwasser-behandlungsanlagen Merseburg	KA-MR 1,5 S 50C	1.75:5.0	1.14:3.25	FRG; RF
		KA-MR 1.5 S 50B	1.5:4.25	0.98:2.76	FRG; RF
	2. Wasserbehandlung Merseburg GmbH Amtshäuser 23-29 4200 Merseburg	KA-MR 1.5 S 50-1/E	2.0	1.3	FRG
	3. KG Hamman Wassertechnik GmbH P.O. Box 21 31 2105 Hamburg Seevetal 2	HL-Cont	1080.0	816.0	FRG; RF
		HL-Cont	720.0	540.0	FRG; RF
		HL-Cont	360.0	270.0	FRG; RF; Fin
		HL-Cont	168.0	126.0	FRG; RF
		HL-Cont	96.0	72.0	FRG; RF
		HL-Cont 1m ³ h	24.0	18.0	FRG; RF; Italy
		HL-Cont 7	168.0	126.0	FRG
		HL-Compact-Mini	24.0	18.0	FRG; Fin
		HL-Cont C-45	96.0	72.0	Fin
	4. Format-Chemie und Apparate GmbH 2086 Ellerau	MSTP 1	6.0	3.0	RF
		MSTP 1	6.6	3.3	FRG; UK; Fin; Sw; China
		MSTP 1A	3.3	1.65	FRG; RF; China
		MSTP 1B	4.5	2.25	FRG
		MSTP 2	12.0	6.0	FRG; UK; Fin; Sw; RF; China
		MSTP 3	18.0	9.0	FRG; UK; Fin; Sw; RF; China
		MSTP 4	22.5	11.25	FRG; UK; Fin; Sw; RF; China
		MSTP 5	33.0	16.5	FRG; UK; Fin; Sw; RF; China
		MSTP 6	48.0	24.0	FRG; UK; Fin; Sw; RF; China
		MSTP 7	69.0	34.5	FRG; UK; Sw; Fin; RF; China
		MSTP 8	150.0	75.0	FRG; UK; Fin; RF; China
		MSTP 9	300.0	150.0	FRG; UK; Sw; Fin; RF; China
	5. Format-Chemie GmbH P.O.Box 1263 25476 Ellerau	MSTP 1A	1.26	0.48	FRG
		MSTP 1B	2.10	0.81	FRG
		MSTP 1	2.50	0.95	FRG
		MSTP 2	3.85	1.49	FRG
		MSTP 3	5.25	2.03	FRG
		MSTP 4	6.65	2.57	FRG
		MSTP 5	9.80	3.80	FRG
		MSTP 6	14.00	5.40	FRG
		MSTP 7	21.00	8.10	FRG
		MSTP 8	45.50	17.60	FRG
		MSTP 9	91.00	35.10	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	6. APPARATEBAU SALZKOTTEN GMBH Ferdinand-Henze-Strasse 9 33154 Salzkotten	Bio-Compact KSA-S-10	1.75	0.8	FRG; RF
		Bio-Compact KSA-S-15	2.625	1.2	FRG; RF; China
		Bio-Compact KSA-S-20	3.5	1.6	FRG; RF
		Bio-Compact KSA-S-25	4.375	2.0	FRG; RF
		Bio-Compact KSA-S-35	6.125	3.060	FRG; UK; Fin; RF; Pol
		Bio-Compact KSA-S-50	8.750	4.375	FRG; UK; Fin; RF; China
		Bio-Compact KSA-S-100	17.5	8.0	FRG; RF; Fin
		Bio-Compact KSA-S-200	35.0	15.0	FRG
		Bio-Compact KSA-S-300	52.5	21.45	FRG; Fin
		Bio-Compact KSA-S-600	105.0	36.0	FRG
		Bio-Compact KSA-S-800	140.0	48.0	FRG; Fin
	7. Aquachem-industrielle Wasserbehandlung-GmbH, Quellenweg 13 51429 Bergisch Gladbach Germany	BIO AQUA Aerob 12	2.1	0.89	FRG
		BIO AQUA Aerob 35	6.125	2.6	FRG
		BIO AQUA Aerob 45	9.625	6.875	FRG
		BIO AQUA Aerob 55	7.875	3.4	FRG
		BIO AQUA Aerob 12/24	2.1	1.8	FRG
		BIO AQUA Aerob 18/36	3.15	9.375	FRG
		BIO AQUA Aerob 25/50	4.375	13.125	FRG
		BIO AQUA Aerob 35/70	6.125	18.375	FRG
		BIO AQUA Aerob 45/90	7.875	23.625	FRG
		BIO AQUA Aerob 55/110	9.625	28.875	FRG
		BIO AQUA Aerob 150/300	13.125	39.375	FRG
		Bio AQUA Aerob 75/150	13.125	39.375	FRG
		Bio AQUA Aerob 100/200	17.5	52.5	FRG
		Bio AQUA Aerob 140/280	24.5	73.5	FRG
		Bio AQUA Aerob 240/480	45.0	135.0	FRG
	8. Paul Pleiger Maschinenfabrik GmbH & Co. KG, D-5810 Witten 3	BIOMAT BS 10	2.2	0.8	FRG; USA
		BS 15	3.3	1.17	FRG
		BS 20	4.4	1.5	FRG
		BS 25	5.5	1.75	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	9. Willi Becker Ingenieurburo GmbH Hamburg	"HELI-FLOW" HF 5M	0.38	0.3	UK
		"HELI-FLOW" HF 10M	0.76	0.6	UK
		"HELI-FLOW" HF 13M	0.98	0.78	UK
		"HELI-FLOW" HF 19M	1.42	1.14	UK
		"HELI-FLOW" HF 26M	1.97	1.56	UK
		"HELI-FLOW" HF 32M	2.42	1.92	UK
		"HELI-FLOW" HF 41M	3.10	2.46	UK
		"HELI-FLOW" HF 58M	4.39	3.48	UK
		"HELI-FLOW" HF 71M	5.38	4.26	UK
		"HELI-FLOW" HF 84M	6.36	5.04	UK
	10. Aqua chem-industrielle Abwasserbehandlung-GmbH Quellenweg 13 5060 Bergisch-Gladbach 1	Bio Aqua Aerob 12	2.1	0.89	FRG
		Bio Aqua Aerob 12/24	2.1	1.80	FRG
		Bio Aqua Aerob 25/50	4.375	13.125	FRG
		Bio Aqua Aerob 35/70	6.125	18.375	FRG
		Bio Aqua Aerob 45/90	7.875	23.625	FRG
		Bio Aqua Aerob 55/110	9.625	28.875	FRG
	11. Citex Maschinen-Apparatebau Gastechnik GmbH 2000 Hamburg 71	CEAK 35/50	12.0	600	FRG
	12. Schiffsanlagenbau Barth GmbH, Chausseestr. 5B 0-2380 Barth	MSA 2.5	1.75-3.5	1.1-2.3	FRG
		MSA 5	3.5-6.75	2.3-4.4	FRG
		MSA 10	6.75-13.5	4.4-8.8	FRG
		MSA 15	13.5-20.25	8.8-13.2	FRG
		MSA 2.5 CL	1.75-3.5	1.1-2.3	FRG
		MSA 5CL	3.5-6.75	2.3-4.4	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m ³ /d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	13. VEB Kombinat Schiffbau Rostock	KAREA 25	25.0	12.5	RF
	14. Aquamar GmbH Zum Alten Wasserwerk 6 D-51491 Overath	Bio unit MSP III Bio unit MSP I Bio unit MSP 25 Bio unit MSP II Bio unit MSP 60 Bio unit MSP IV Bio unit MSP 80	7.875 2.62 4.38 5.75 10.5 12.25 13.12	3.38 1.125 1.875 2.47 4.5 5.15 5.63	China China China China China China China
	15. Hamann Wassertechnik GmbH P.O.B.2201 D-21202 Seevetal	Basis-Frame Norway-Frame L-Frame Norway-Frame Double-Frame L-Frame Norway-Frame Double-Frame L-Frame Norway-Frame Double-Frame Compact-Mini -Big-Tank Mini-Frame-Big Norway-Frame-Big HL-Cont Super Mini HL-Cont (1 m ³ /h) Compact – Mini HL-Cont. (96 m ³ /d) HL-Cont. (168 m ³ /d) HL-Cont. (360 m ³ /d) HL-Cont. (720 m ³ /d) HL-Cont. (1080 m ³ /d)	24.0 24.0 96.0 96.0 96.0 168.0 168.0 168.0 360.0 360.0 360.0 36.0 36.0 36.0 2.52 24.0 96.0 168.0 360.0 720.0 1080.0	18.0 18.0 72.0 72.0 72.0 126.0 126.0 126.0 270.0 270.0 270.0 27.0 27.0 27.0 1.89 18.0 72.0 126.0 270.0 540.0 810.0	RF RF RF RF RF RF RF RF RF RF RF RF RF RF FRG FRG FRG FRG FRG FRG FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	16. Triton-Format GmbH Werner-von-Siemen-Str.2 25476 Ellerau	MSTP 1A	1.26	0.48	RF; FRG
		MSTP 1B	2.1	0.81	RF; FRG
		MSTP 1	2.5	0.95	RF; FRG
		MSTP 2	3.85	1.49	RF; FRG
		MSTP 3	5.25	2.03	RF; FRG
		MSTP 4	6.65	2.57	RF; FRG
		MSTP 5	9.8	3.8	RF; FRG
		MSTP 6	14.0	5.4	RF; FRG
		MSTP 7	21.0	8.1	RF; FRG
		MSTP 8-600V	25.0	27.0	FRG
		MSTP 8	45.5	17.6	RF; FRG
		MSTP 9	91.0	35.1	RF; FRG
		MSTP 10-1500V	37.5	40.5	FRG
		MSTP 11-1800V	45.0	48.6	FRG
	17. MARTIN SYSTEMS AG Bettelhecker Str.25 96515 Sonneberg	STKS 65	16.25	5.85	FRG
		STKS 25	5.50	2.30	FRG
		STKS 110	16.80	9.92	FRG
		STKS 250	35.00	22.50	FRG
		STKS 300	42.50	25.50	FRG
		BMA 15	2.40	1.35	FRG
	18. UTS Maschinen- und Ausrüstungs- bau GmbH Friedrich-Engels- Str. 23-25 96515 Sonneberg	STKS 25	5.50	2.30	FRG
		STKS 65	16.25	5.85	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	19. DVZ-SERVICES GmbH Waldstrasse 23 D-28844 Weyhe	DVZ-MSD II/10	0.85	0.95	FRG
		DVZ-MSD II/20	1.73	1.90	FRG
		DVZ-MSD II/30	2.59	2.85	FRG
		DVZ-MSD II/40	3.46	3.80	FRG
		DVZ-MSD II/50	4.32	4.75	FRG
		DVZ-MSD II/60	5.18	5.70	FRG
		DVZ-MSD II/70	6.04	6.65	FRG
		DVZ-MSD II/80	6.91	7.60	FRG
		DVZ-MSD II/100	8.64	9.50	FRG
		DVZ-MSD II/120	10.36	11.40	FRG
		DVZ-MSD II/140	12.08	13.30	FRG
		DVZ-MSD II/160	13.82	15.20	FRG
		DVZ-MSD II/180	15.54	17.10	FRG
		DVZ-MSD II/200	17.28	19.00	FRG
		DVZ-MSD II/240	20.72	22.80	FRG
		DVZ-MSD II/300	22.464	24.71	FRG
		DVZ-SKA 10 "Biomaster"	1.85	1.29	FRG
		DVZ-SKA 20 "Biomaster"	3.70	2.58	FRG
		DVZ-SKA 30 "Biomaster"	5.50	3.86	FRG
		DVZ-SKA 35 "Biomaster"	6.475	4.52	FRG
		DVZ-SKA 40 "Biomaster"	7.40	5.15	FRG
		DVZ-SKA 50 "Biomaster"	9.20	6.40	FRG
		DVZ-SKA 70 "Biomaster"	12.95	9.03	FRG
		DVZ-SKA 150 "Biomaster"	27.75	19.35	FRG
		DVZ-SKA 100 "Biomaster"	18.50	9.25	FRG
		DVZ-SKA 200 "Biomaster"	37.00	25.8	FRG
		DVZ-SKA 300 "Biomaster"	55.50	38.7	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	20. VA TECH WABAG Deutschland GmbH & Co. KG, Lise-Meitner-Str.4a 40878 Ratingen, Germany	MEMROD LT 10	1.8	0.9	FRG
		MEMROD LT 25	3.75	2.25	FRG
		MEMROD LT 50	7.5	4.5	FRG
		MEMROD LT 70	10.5	6.3	FRG
		MEMROD LT 230	34.5	20.7	FRG
		MEMROD LT 250	37.5	22.5	FRG
		MEMROD LT 270	40.5	28.35	FRG
		MEMROD LT 300	45	31.5	FRG
		MEMROD LT 520	78	54.6	FRG
	21. Rochem UF-Systeme GmbH Seegelkenkehre 4 21107 Hamburg Germany	Bio-Filt® 16/18	80	115	FRG
		Bio-Filt® 03/09	13.2	8	FRG
		Bio-Filt® 03/06	24	10	FRG
		Bio-Filt® 12/27	154	118	FRG
		Bio-Filt® 18/27	154	118	FRG
		Bio-Filt® S 03/09.5	18	12	FRG
	22. MARTIN SYSTEMS AG Bettelhecker Str.25 96515 Sonneberg	BMA 6	1.11	0.54	FRG
		BMA 12	2.22	1.08	FRG
		BMA 15	2.4	1.35	FRG
		BMA 20	4.44	2.16	FRG
		BMA 25	5.0	2.25	FRG
		BMA 35	7.03	3.42	FRG
		BMA 50	9.4	4.6	FRG
		BMA 75	13.9	6.8	FRG
		BMA 100	18.7	9.1	FRG
		BMA 150	27.8	13.5	FRG
		BMA 200	37	18	FRG
		BMA 300	56	27	FRG
		BMA 450	84	41	FRG
		BMA 680	126	61	FRG
		BMA 1130	210	102	FRG
	23. RWO GmbH Leerkämpe 3 D-28259 Bremen	WWT1BIOPUR	1.76	0.83	FRG
		WWT2 BIOPUR	2.59	1.22	FRG
		WWT3 BIOPUR	4.63	2.174	FRG
		WWT4 BIOPUR	6.48	3.04	FRG
		WWT5 BIOPUR	9.81	4.61	FRG
		WWT6 BIOPUR	12.58	5.03	FRG
		WWT7 BIOPUR	16.65	6.16	FRG
		WWT8 BIOPUR	20.35	7.53	FRG
		WWT9 BIOPUR	29.60	11.84	FRG
		WWT10 BIOPUR	44.40	17.76	FRG
		WWT11 BIOPUR	90.65	31.73	FRG
		WWT12 BIOPUR	136.90	47.92	FRG
		WWT13 BIOPUR	185.00	64.75	FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m ³ /d	Designed Organic Loading kg/d	Approving Governments
7. Germany (Cont'd)	24. Ocean Clean GmbH Wehrmannsdamm 11 27245 Kirchdorf Germany	KD-Oceanclean-15 KD-Oceanclean-20 KD-Oceanclean-25 KD-Oceanclean-30 KD-Oceanclean-40 KD-Oceanclean-50 KD-Oceanclean-70 KD-Oceanclean-100 KD-Oceanclean-120 KD-Oceanclean-150 KD-Oceanclean-330	2.77 3.7 4.5 5.55 7.4 9.25 12.95 18.5 22.2 27.75 61.05	2.267 3.02 3.91 4.53 6.05 7.55 10.58 15.11 18.13 22.67 49.88	FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG
	25. Hamann AG Division Hamann Wassertechnik Bei der Lehmkuhle 4 D-21279 Hollenstedt	HL-Cont Super Mini HL-Cont (1m ³ /h) Compact Mini HL-Cont (96 m ³ /d) HL-Cont (168 m ³ /d) HL-Cont (360 m ³ /d) HL-Cont (720 m ³ /d) HL-Cont (1080 m ³ /d)	2.52 24 96 168 360 720 1080	1.89 18 72 126 270 540 810	FRG FRG FRG FRG FRG FRG FRG
8. Greece	1. Environmental Protection Engineering Ltd. 88 Iroon Polytechniou Str. 18536 Piraeus	TRITON 196 TRITON 1900 TRITON 408 TRITON 1000 TRITON 4000	1.96 19.00 4.08 10 40	0.85 8.34 1.77 4.34 17.35	Gr; Nor Gr; Nor Nor Nor Nor
	2. Techni SA Piraeus Greece	BIOCON I BIOCON II BIOCON III	2.62 8.07 14.6	1.35 4.15 7.52	Nor Nor Nor
9. Italy	1. Pollution Control Engineering Sr.1, Trattamento Acque Via Dei Mille 99, La Spezia	BIODISK FVN 25 BIODISK FVN 30 BIODISK FVN 50 BIODISK FVN 60 BIODISK FVN 100 BIODISK FVN 200 BIODISK FVN 300	2.5 (less than 4.0 the 6.0 standards) 8.0 " 15.0 " 30.0 " 45.0 "		Italy USA Italy USA; Italy USA; Italy USA; Italy USA; Italy
	2. I.S.I.R. Sas di Antonelli & C 16165 Genova Struppa	BIOEPURO-B/50 75 25 20 75-2 100 125 150 200	5.0 15.0 2.5 2.0 7.5 10.0 12.5 15.0 20.0		Italy; RF; Gr Italy; RF Italy; RF; Gr Italy; RF; Gr Italy; Gr Gr; Italy; RF Italy; RF; Gr Gr; RF Gr; Italy; RF

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
10. Japan	1. Sasakura Engineering Co. Ltd. Osaka 500	Super Trident ST2	1.6	1.2	UK; China; Fin
		Super Trident ST4	3.01	2.4	UK; China; Fin
		Super Trident ST6	4.55	3.66	UK; China; Fin
		Super Trident ST8	6.0	4.8	UK; China
		Super Trident ST10	7.4	6.0	UK; China; Fin
		Super Trident ST15	11.0	9.0	UK; China
		Super Trident ST20	14.5	12.0	UK; China; Fin
		Super Trident ST25	17.5	15.0	UK; China; Fin
		Super Trident ST30	23.1	18.0	UK; China; Fin
		Super Trident ST2A	1.6	1.2	UK
		Super Trident ST3A	2.31	1.8	UK
		Super Trident ST4A	3.01	2.4	UK
		Super Trident ST6A	4.55	3.6	UK
		Super Trident ST2N	1.6	1.2	UK
		Super Trident ST4N	3.01	2.4	UK
		Super Trident ST6N	4.55	3.6	UK
		Super Trident ST8N	6.0	4.8	UK
		Super Trident ST10N	7.4	6.0	UK
		Super Trident ST15N	11.0	9.0	UK
		Super Trident ST20N	14.5	12.0	UK
		Super Trident ST25N	17.5	15.0	UK
		Super Trident ST30N	23.1	18.0	UK
		Retro-fit Trident RT 20	1.6	1.2	UK; Fin
		Retro-fit Trident RT 40	3.01	2.4	UK; Fin
		Retro-fit Trident RT 60	4.55	3.6	UK; Fin
		Retro-fit Trident RT 80	6.0	4.8	UK; Fin
	2. Nissin Refrigeration and Engineering Ltd. Osaka	Marine Defecamat NST-20	1.2	0.27	UK; China
		Marine Defecamat NST-30	1.8	0.405	UK; China
		Marine Defecamat NST-40	2.4	0.54	UK; China
		NST-50	3.0	0.67	China
		NST-60	3.6	0.81	China
		NST-70	4.2	0.94	China
		NST-80	4.8	1.08	China
		NST-90	5.4	1.21	China
		NST-100	6.0	1.35	China
		NST-125	7.5	1.68	China
		NST-150	9.0	2.02	China
		NST-300	18.0	4.05	China
		NST-400	24.0	5.40	China
		NST-500	30.0	6.75	China
		NST-650	39.0	8.77	China
		NST-750	45.0	10.12	China

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
10. Japan (Con'd)		Marine Defecamat NST-20H	1.2	0.27	UK; China
		Marine Defecamat NST-25H	1.5	0.338	UK; China
		Marine Defecamat NST-30H	1.8	0.405	UK; China
		Marine Defecamat NST-40H	2.4	0.54	UK; China
	3. Taiko Kikai Industries Co. Ltd. 209 Shimotabuse Tabuse-cho Kamagata-Gun Yamaguchi-Pref Japan 742-15	TAIKO SHIPCLEAR BFT 40	2.4	0.54	UK; China
		AP-2 SHIPCLEAR	1.2	0.27	UK; China
		AP-3 SHIPCLEAR	1.8	0.405	UK; RF; China
		AP-4 SHIPCLEAR	2.4	0.54	UK; China
		AP-5 SHIPCLEAR	3.0	0.675	UK; China
		AP-6 SHIPCLEAR	4.5	1.0125	UK; China
		AP-7 SHIPCLEAR	6.0	1.35	UK; China
		SBT-15	0.9	0.2025	UK; China
		SBT-25	1.5	0.3375	UK; China
		SBT-40	2.4	0.54	UK; China
		SBT-65	3.9	0.8775	UK; China
	4. Goko Seisakusho Co. Ltd. 27-3, 5-chome Shimbashi Minato-ku Tokyo	"AEROBICT C" TF 20	0.7	0.27	UK
		"AEROBICT" TF 25 1.0	0.337		UK; USA
		"AEROBICT C" TF 40	1.6	0.540	UK; USA
		"AEROBICT" TF 50 2.0	0.6752.1		UK; USA
		"AEROBICT C" TF 60	0.540	0.81	UK
		"AEROBICT" TF 40 1.6	1.08		UK
		"AEROBICT" TF 80 3.2			UK; USA
		"AEROBICT" TF 120 4.8	1.62	0.54	UK; USA; Nor
	5. Nippon Kokan, Yokohama	NKK-25 D II	1.5	0.337	Fin
	6. Japan Development Consultants Inc. 1 Tatagami-cho Sasebo-City Nagasaki	CLEAN FRIEND BFM-35	2.13		USA

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
11. Netherlands	1. Holland Marine Services Amsterdam b.v Vlothavenweg 16, 1013 BJ Amsterdam, The Netherlands	MSD-II Series	4	1.1	Neth.
	2. BioCompact Environmental Technology B.V., Brugwachter 13, 3034 KD Rotterdam	Bio-Compact KSA-S 10	1.75	0.8	FRG
		Bio-Compact KSA-S 15	2.625	1.2	FRG
		Bio-Compact KSA-S 20	3.5	1.6	FRG
		Bio-Compact KSA-S 25	4.375	2	FRG
		Bio-Compact KSA-S 35	6.125	3.06	FRG
		Bio-Compact KSA-S 50	8.75	4.375	FRG
		Bio-Compact KSA-S 100	17.5	8	FRG
		Bio-Compact KSA-S 200	35	15	FRG
		Bio-Compact KSA-S 300	52.5	21.45	FRG
		Bio-Compact KSA-S 600	105	36	FRG
		Bio-Compact KSA-S 800	140	48	FRG
12. Norway	Scanship Engineering AS Tønsberg Norway	'The MUSSEL FA25'	360		Nor
13. Poland	1. Pomorskie Zakłady Urządzeń Okretowych "WARMA" 86-300 Grudziądz Ul. Lotnicza 21	LK-30A	1.95	1.36	Pol
		LK-100	6.5	4.55	Pol; RF
		LK-200	13.0	9.1	Pol; RF
		LK-320	20.8	14.56	Pol; RF
		LK-30	1.95	1.8	UK; Pol; RF
		LK-50	3.25	3.0	UK; Fin; Pol; RF; Sw
		LK-100	6.5	6.0	UK
		LK-200	13.0	12.0	UK
		LK-320	20.8	19.2	UK
		MOS40	40	27.99	Pol
		MOS-2.5	2.5	1.75	RF

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
13. Poland (Cont'd)	2. Centrum Techniki Morskie; OBR Gdansk, U1 J.Matejki 6	TELKA 03	6	4.5	Pol
	3. Stocznia Szczecinska im. Adolfa Warskiego Szczecin	B 430-7	1.3	0.9	FRG
	4. Zaklady Doswiadczalno-Produkcyjnych "TECHMOR" ul. Marynarki Polskiej 59, Gdansk	TELKA 06	12.0	9.0	Pol
14. Republic of Korea	1. Consolidated Machinery Inc. Yang San	BIO AQUA 35	6.125	2.6	FRG
		BIO AQUA 25	4.375	1.86	FRG
		BIO AQUA 18	3.15	1.34	FRG
		BIO AQUA 55	9.625	4.125	FRG
		BIO AQUA 45	7.875	3.4	FRG
		AEROB - 12	2.1	.89	ROK
		AEROB - 12C	2.1	.89	ROK
		AEROB - 18	3.15	1.34	ROK
		AEROB - 18C	3.15	1.34	ROK
		AEROB - 25	4.375	1.86	ROK
		AEROB - 35	6.125	2.6	ROK
		AEROB - 45	7.875	3.4	ROK
		AEROB - 55	9.625	4.125	ROK
	2. HanDok Precision Ind; Kangseo-Gu Seoul	HDST - 150	0.9		ROK
		HDST - 250	1.5		ROK
		HDST - 400	2.4		ROK
		HDST - 650	3.9		ROK
	3. Chang Won Environment Ind. Co., Ltd Kim hai Kyung Nam-Do	SEACLEAN II-10CE	0.3		ROK
		SEACLEAN II-20CE	0.6		ROK; Nor
		SEACLEAN II-30CE	0.9		ROK
		SEACLEAN II-50CE	1.5		ROK
		SEACLEAN II-150CE	4.5		ROK
		SEACLEAN II-30CE-S	0.9		ROK
		SEACLEAN II-50CE-S	1.5		ROK
		SEACLEAN II-50CE(B)	2.4		ROK
		SEACLEAN II-50CE(B)-S	2.4		ROK
		SEACLEAN II-100CE	3.0		ROK
		SEACLEAN II-100CE-S	4.5		ROK
		SEACLEAN II-150CE-S	9.0		ROK
		SEACLEAN II-300CE			

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
14. Republic of Korea (Con'td)	4. Changkwang Engineering Co.,Ltd. Youngdeungpo-Ga, Seoul	HDST-150 HDST-250 HDST-400 HDST-650	0.9 1.5 2.4 3.9		ROK ROK ROK ROK
	5. Il Seung Co., Ltd. Kyeongnam Republic of Korea	ISS-25 ISS-43	1.5 2.58	0.34 0.58	Nor Nor
15. Russian Federation	1. Sudoimport Moskva Smolenskaia - Sennaia pl 32/34	EOS-15 EOS-5	15.0 5.0	6.0 2.5	RF RF
	2. "EKOS Ltd." Barrikadnaija st.36, fl. 8 St. Petersburg	STOK-10M1 STOK-50M	10.0 50.0	5.0 25.0	RF RF
	3. Krasnoutilovskai St. 55-6 198152 St. Petersburg	STOK-30M STOK-70M	30.0 70.0	15.0 35.0	RF RF
16. Spain	DETEGASA Ctra. Castro-Meiras 15550 Valdoviño La Coruña	<u>PHYSICAL-CHEMICAL</u>			
		DELTA FQ-6	6	3.3	Spain
		DELTA FQ-10	10	5.5	Spain
		DELTA FQ-15	15.24	8.3	Spain
		DELTA FQ-22	22	12.1	Spain
		DELTA FQ-24	24	13.2	Spain
		DELTA FQ-28	28	15.4	Spain
		DELTA FQ-30	30.3	16.6	Spain
		DELTA FQ-36	36	19.8	Spain
		DELTA FQ-40	40	22	Spain
		DELTA FQ-50	50	27.5	Spain
		DELTA FQ-88	88.5	48.6	Spain
		DELTA FQ-105	105	57.5	Spain
		DELTA FQ-125	125	68.75	Spain
		<u>BIOLOGICAL</u>			
		DELTA PR-036	0.36	0.19	Spain
		DELTA PR-069	0.69	0.38	Spain
		DELTA PR-138	1.38	0.75	Spain
		DELTA PR-200	2	1.10	Spain
		DELTA PR-260	2.6	1.43	Spain
		DELTA PR-400	4	2.2	Spain
		DELTA PR-540	5.40	2.97	Spain
		DELTA PR-670	6.70	3.68	Spain
		DELTA PR-870	8.70	4.78	Spain
		DELTA PR-1000	10	5.50	Spain
		DELTA PR-1310	13.10	7.20	Spain
		DELTA PR-1590	15.90	8.74	Spain
		DELTA PR-2110	21.10	11.60	Spain
		DELTA PR-2600	26	14.30	Spain
		DELTA PR-3480	34.80	19.14	Spain
		DELTA PR-4392	43.92	24.15	Spain

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
17. Sweden	1. Consilium Marine, Stockholm Sweden S-1 7122, Solna	NEPTUMATIC MOC-12 NEPTUMATIC MOC-20 NEPTUMATIC MOC-28 NEPTUMATIC MOC-28R NEPTUMATIC MOC-75 NEPTUMATIC MOC-75 Compart NEPTUMATIC MOC-100 NEPTUMATIC MOC-125 NEPTUMATIC MOC-130 NEPTUMATIC RETRO-30 NEPTUMATIC RETRO-45 NEPTUMATIC MOD 130	12.0 20.0 28.0 21.0 75.0 75.0 100.0 125.0 130.0 30.0 45.0 130.0	6.2 10.3 14.4 10.6 30.0 30.0 40.0 50.0 52.0 15.4 23.2 52.0	Sw; UK; RF; Pol; Fin RF RF RF RF Sw Fin; Pol Fin Sw Sw; RF; Fin Sw; RF; Fin UK
	2. Jowa AB Tulebo 865 S-42834 Kallered, Gothenburg Sweden	JOWA BIO-STP 1 JOWA BIO-STP 2 JOWA BIO-STP 3 JOWA BIO-STP 4 JOWA BIO-STP 5 JOWA BIO-STP 6	0.7 1.75 2.45 3.5 5.25 14	0.51 1.29 1.8 2.57 3.86 10.29	FRG FRG FRG FRG FRG FRG

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
18. United Kingdom	1. Hamworthy Engineering Ltd., Pump and Compressor Division Fleets Corner Poole, Dorset BH17 7LA	Retro-fit Trident RT 80	6.0	4.8	UK; Fin; RF; China; Pol
		Retro-fit Trident RT 60	4.55	3.6	UK; Fin; RF; China; Pol
		Retro-fit Trident RT 40	3.01	2.4	UK; Fin; RF; China; Pol; Fin
		Retro-fit Trident RT 20	1.6	1.2	UK; Fin; RF; China; Pol; Fin
		Super Trident ST 60	46.2	36.0	UK; RF; Pol
		Super Trident ST 50	30.0	36.75	Pol
		Super Trident ST 40	24.0	28.0	Pol
		Super Trident ST 40X	28.0	24.0	UK
		Super Trident ST 30	23.1	18.0	UK; Sw; RF; Pol; Fin Fin; Pol
		Super Trident ST 25X	17.5	15.0	UK
		Super Trident ST 25	17.5	15.0	UK; Fin; RF; Pol
		Super Trident ST 20	14.5	12.0	UK; Fin; RF; Pol
		Super Trident ST 15	11.0	9.0	UK; RF; Pol; Fin
		Super Trident ST 13	9.6	7.8	UK; Pol; FRG
		Super Trident ST 10	7.4	6.0	UK; Fin; RF; China;
		Super Trident ST 8	6.0	4.8	FRG; Pol; Fin UK; RF; China;
		Super Trident ST 6	4.55	3.6	FRG; Pol; Fin UK; Fin; Italy; Pol; RF; China; FRG
		Super Trident ST 4	3.01	2.4	UK; Sw; RF; Fin; Pol; China; Italy; FRG
		Super Trident ST 3	2.1	1.8	UK; Italy
		Super Trident ST 2	1.6	1.2	UK; FRG; RF; Italy; Pol; Fin; China
		Super Trident ST 1	0.8	0.6	UK; FRG; RF; China; Pol
		Super Trident ST 0	0.45	0.32	RF; UK; Pol
		Super Trident ST 60S	46.2	36.0	UK

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
18. United Kingdom (Cont'd)		Trident T 10	0.68	0.6	UK
		Trident T 20	1.36	1.2	UK
		Trident T 30	2.04	1.8	UK
		Trident T 40	2.73	2.4	UK
		Trident T 50	3.41	3.0	UK
		Trident T0	4.09	3.6	UK
		Trident T 75	5.11	4.5	UK
		Trident T 100	6.81	6.0	UK
		Super Trident			
		ST-0A	0.42	0.35	RF; UK
		ST-1A	0.8	0.6	RF; UK; Pol
		ST-2A	1.6	1.2	RF; UK; Pol; Fin
		ST-3A	2.31	1.8	RF; UK; Pol
		ST-4A	3.0	2.4	RF; UK; Pol; Fin
		ST-6A	4.55	3.6	RF; UK; Pol; Fin
		-8A	6.0	4.8	RF
	2. Marine Ventures Ltd. Marven House, 1 Field Road, Reading RG1 6AP England	SEACARE 10	1.0	0.6	UK
		SEACARE 40	4.0	2.4	UK
		SEACARE 200	20.0	12.0	UK
	3. Elsan Marine International Ltd. Sandwich Kent	STOUR LC 5	0.18	0.3	UK
		STOUR LC 10	0.36	0.6	UK
		STOUR LC 20	0.72	1.2	UK
		STOUR LC 35	1.26	2.1	UK
		STOUR LC 60	2.16	3.6	UK
		STOUR LC 100	36.0	60.0	UK
19. United States	1. Exstar International Corp., 6502 Windmill Way, Wilmington, North Carolina 28405	MARLAND SANI-SYSTEM:			
		SS-645 Type II	17.4	13.5	UK; Gr
		SS-630 Type II	11.36	9.0	UK; Gr
		SS-615 Type II	5.11	4.05	UK; Gr; Sw; Fin
		SS-600 Type II	2.84	2.25	UK; Gr; Sw; Fin
		SS 40			Gr
		SS 60			Gr

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
19. United States (Cont'd)	2. Microphor Inc. Willits, California	M 8			Gr
		M 10			Gr
		M 12			Gr
		M 14			Gr
		M 30	0.057	0.18	UK
		M 40	0.076	0.24	UK
		M 50	0.095	0.3	Gr; UK
		M 100	0.189	0.6	Gr; UK
		M 150	0.284	0.9	Gr; UK
		M 200	0.379	1.2	Gr; UK
		M 300	0.568	1.8	Gr; UK
		M 500	0.946	3.0	Gr; UK
		M 600	1.136	3.6	Gr; UK
		M 800	1.514	4.8	Gr; UK
		M 1000	1.893	6.0	Gr; UK
		MC 50	0.473	0.3	Gr; UK
		MC 100	0.946	0.6	Gr; UK
		MC 150	1.419	0.9	Gr; UK
		MC 200	1.893	1.2	Gr; UK
		MC 300	2.839	1.8	Gr; UK
		MC 500	4.731	3.0	Gr; UK
		MC 600	5.678	3.6	Gr; UK
		MC 800	7.57	4.8	Gr; UK
		MC 1000	9.463	6.0	Gr; UK
	3. St. Louis Ship. 611 East Marceau Street St. Louis Missouri 63111	"FAST" LS-1	0.57	0.17	UK
		"FAST" LS-2	0.91	0.27	UK
		"FAST" 6m	1.02	0.31	UK; USA
		"FAST" LS-3	1.36	0.41	UK
		"FAST" 9M	1.59	0.48	UK; USA
		"FAST" 13M	2.39	0.71	UK; USA
		"FAST" 12D	2.61	0.78	UK; USA
		"FAST" 18M	3.18	0.95	UK; USA
		"FAST" 18D	3.86	1.15	UK; USA
		"FAST" 26M	4.77	1.43	UK; USA
		"FAST" 25D	5.68	1.70	UK; USA
		"FAST" 40D	8.41	2.51	UK; USA
		"FAST" 50D	10.70	3.19	UK; USA

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
19. United States (Cont'd)	4. FAST Systems, Inc. 8229 Brentwood Industrial Drive Brentwood, MO 63144	"FAST" D1, D1M, D-1S D2, D2M, D-2S D3, D3M, D-3S D4, D4M, D-4S D5, D5M, D-5S D6, D6M, D-6S D7, D7M, D-7S D8, D8M, D-8S D9, D9M, D-9S "FAST"M-1, MX-1 "FAST"M-2, MX-2 "FAST"M-3, MX-3 "FAST"M-4, MX-4 "FAST"M-5, MX-5 L-1, Type II L-1X, Type II L-2X, Type II L-3X, Type II L-4X, Type II	3.52 5.22 7.72 11.35 14.42 19.98 29.97 46.89 67.67 1.13 1.70 2.49 3.29 4.88 0.6 0.495 0.645 0.985 1.385	1.1 1.6 1.6 1.6 4.4 1.6 1.6 14.3 20.6 0.4 0.5 0.8 1.0 1.5 0.2	USA USA USA USA USA USA USA USA USA USA USA USA USA USA USA USA USA USA USA
	5. Sigma Treatment Systems Inc., 2 Davis Ave Frazer Pennsylvania 19355 USA (Marlor Welding and Fabrication Co. Ltd., 4-5 Wainman Rd., Woodston Peterborough PE2 OBU England)	BIO-ST5 500 BIO-ST5 1500 BIO-ST5 1000	1.89 5.68 3.79	1.67 5.0 3.33	UK UK UK
	6. Red Fox Industries New Iberia LA	RF-100-M RF-200-M RF-350-M RF-500-M RF-750-M RF-1000-M RF-1500-M RF-2000-M RF-2500-M RF-3000-M RF-3500-M RF-4000-M RF-4500-M RF-5000-M RF-5500-M RF-6000-M RF-7500-M RF-9000-M RF-0.5-MP	0.38 0.76 1.33 1.9 2.9 3.79 5.7 7.6 9.5 11.4 13.3 15.2 17.1 19.0 20.9 22.8 28.5 34.2 0.61 (Little Fox)	0.3 0.6 1.05 2.00 3.00 4.00 6.00 8.00 10.00 12.00 14.00 16.00 18.00 20.00 22.00 24.00 30.00 36.00 0.48	UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr UK; Gr Gr; UK

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
19. United States (Cont'd)		PAC FP 50 PAC FP 200 PAC FP 500 PAC FP 750 PAC FP 1000 PAC FP 1500 PAC FP 2000 PAC FP 2500	0.19 0.76 1.89 2.84 3.79 5.68 7.57 9.40	0.3 0.6 1.5 2.25 3.0 4.5 6.0 7.5	Gr; UK Gr; UK Gr; UK UK Gr; UK Gr; UK UK Gr; UK
	7. Effluent Technology Corporation 402 Tacoma Ave.S P.O. Box 2094 Tacoma WA 98401	"ORCA" MK 2/12 "ORCA" MK 2/24 "ORCA" MK 2/36	1.36 2.73 4.09	1.44 2.88 4.32	UK; Gr; USA; China UK; Gr; USA; China UK; Gr; USA; China
	8. KIMCO Inc. P.O. Box 1551 Houston, TX 77251	"HELI-FLOW" HF 2M HF 5M HF 10M HF 13M	- 0.38 0.76 0.98	- 0.3 0.6 0.78	USA UK; USA UK; USA UK; USA
	9. Houston Systems Manufacturing Co. New Iberia, LA	HF 19M HF 26M HF 32M HF 41M HF 58M HF 71M HF 84M HF 104M HF 130M HF 156M HF 175M HF 188M HF 208M HF 234M HF 292M HF 325M HF 357M HF 390M HF 455M	1.42 1.97 2.42 3.10 4.39 5.38 6.36 7.87 9.84 11.81 13.24 14.23 15.75 17.72 22.11 24.61 27.03 29.53 34.45	1.14 1.56 1.92 2.46 3.48 4.26 5.04 6.24 7.8 9.36 10.5 11.28 12.48 14.04 17.52 19.5 21.42 23.4 27.3	UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA UK; USA
	10. OMNIPURE WASTEWATER TREATMENT 8623 Windswept Houston, Texas	"OMNIPURE" 4M 6M 8M 12M 12MX	1.48 2.96 6.815 13.63 28.39	0.78 1.62 3.6 7.2 15.0	UK UK; Fin UK; Fin UK UK
	11. ESS Corporation 12850 Bournewood Drive, Sugarland, Texas 77478	"OMNIPURE" 15MX	56.00	30.0	USA

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
19. United States) (Cont'd)	12. Exceltec International Corp. 1110 Industrial Blvd Sugarland TX 77478	"OMNIPURE"			
		4MS	1.48	0.78	USA
		6MC	2.96	1.62	RF; USA
		6MS	2.96	1.62	USA
		7MC	4.54	2.4	USA
		7MS	4.54	2.4	RF
		8MC	6.815	3.6	RF; USA
		8MS	6.815	3.6	USA
		12M	13.63	7.2	USA
		12MC	13.63	7.2	RF; USA
		12MX	28.39	15.0	RF; USA
		15MX	56.00	30.0	RF; USA
	13. Envirovac Inc. 1260 Turret Drive Rockford IL 61111	ORCA IIA-12	1.36	1.44	USA;Fin;UK;Pol;China RF
		ORCA IIA-24	2.72	2.88	USA;Fin;UK;Pol;China RF
		ORCA IIA-36	4.09	4.32	USA;Fin;UK;Pol;China RF
		ORCA II-160	18.17	19.2	Fin; UK
		ORCA II-165	18.93	19.8	USA; Pol; China
		ORCA II-330	37.47	39.6	USA; Pol; UK; China;
		ORCA II-360	37.47	39.6	Fin
		ORCA II-500	56.81	60.0	Fin
	14. Environmental Marine Inc. P.O. Box 440 Bronston, KY 42518	Model 400			USA
		Model 800			USA
		Model 1200			USA
		Model 1600			USA
	15. Raritan Engineering Co Inc. 530 Orange Street P.O. Box 1157 Millville NJ 08332	Raritan Managemr:			
		Model 6400081	0.17	1.56	USA
		Model 6400121	0.23	2.35	USA
		Model 6400161	0.34	3.13	USA
	16. Owens MFG & Specialty Co 922-A Young Street Youngsville LA 70508	OW-A-HB	0.16		USA
		OW-B-HB	0.33		USA
		OW-C-HB	0.49		USA
		OW-D-HB	0.80		USA
		OW-E-HB	1.05		USA
		OW-F-HB	1.59		USA
		OW-G-HB	1.99		USA

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
19. United States (Cont'd)	17. Seahorse Manufacturing 5810 Paradise Lane Lydia, LA 70569	SMSD-100	0.61	0.56	USA
		SMSD-200	0.76	1.87	USA
		SMSD-300	1.14	2.80	USA
		SMSD-400	1.51	3.74	USA
		SMSD-500	1.89	4.67	USA
		SMSD-750	1.89	4.67	USA
		SMSD-1000	3.79	5.61	USA
		SMSD-1500	5.68	9.35	USA
		SMSD-2000	7.57	12.15	USA
		SMSD-2500	9.46	15.89	USA
		SMSD-3000	11.36	18.70	USA
		SMSD-3500	13.25	21.50	USA
		SMSD-4000	15.14	24.31	USA
		SMSD-4500	17.03	28.05	USA
		SMSD-5000	18.93	30.85	USA
		SMSD-5500	20.82	33.66	USA
		SMSD-6000	22.71	37.40	USA
		SMSD-7000	26.5	43.01	USA
		SMSD-8000	30.28	52.36	USA
		SMSD-8500	32.18	52.36	USA

Manufacturing Countries	Manufactured by	Type and Model	Designed Hydraulic Loading m3/d	Designed Organic Loading kg/d	Approving Governments
19. United States (Cont'd)	18. Headhunter Inc. 4100 Ravenswood Road Fort Lauderdale FL 33312-5354	RF-50B, TW-50B	0.189	2.5	USA
		RF-50LP, TW-50LP	0.189	2.5	USA
		RF-200B, TW-200B	0.757	10.0	USA
		RF-300B, TW-300B	1.136	15.0	USA
		RF-500, TW-500	1.893	25.0	USA
		RF-800, TW-800	3.028	40.0	USA
		RF-1000, TW-1000	3.785	50.0	USA
		RF-1200, TW-1200	4.54	60.0	USA
		RF-1600, TW-1600	6.057	80.0	USA
		RF-2000, TW-2000	7.571	100.0	USA
		RF-2400, TW-2400	9.085	120.0	USA
		RF-3000, TW-3000	11.356	150.0	USA
		RF-3400, TW-3400	12.87	170.0	USA
		RF-3800, TW-3800	14.385	190.0	USA
		RF-4200, TW-4200	15.89	210.0	USA
		RF-4600, TW-4600	17.41	230.0	USA
		RF-5000, TW-5000	18.927	250.0	USA
		RF-5400, TW-5400	20.44	270.0	USA
		RF-6000, TW-6000	22.71	300.0	USA
		RF-7000, TW-7000	26.49	350.0	USA
		RF-8000, TW-8000	30.28	400.0	USA
		RF-9000, TW-9000	34.06	450.0	USA
		RF-10000, TW-10000	37.85	500.0	USA
		TW-HMX-501	0.37	2.2	USA
		TW-HMX-511	0.37	2.2	USA
		TW-HMX-521	0.37	2.2	USA
		TW-HMX-502	0.76	4.3	USA
		TW-HMX-512	0.75	4.3	USA
		TW-HMX-522	0.75	4.3	USA
		TW-HMX-503	1.13	6.66	USA
		TW-HMX-513	1.13	6.66	USA
		TW-HMX-523	1.13	6.66	USA
		TW-HMX-504	1.5	8.9	USA
		TW-HMX-514	1.5	8.9	USA
		TW-HMX-524	1.5	8.9	USA
		TW-HMX-2002	1.9	11.1	USA
		TW-HMX-2102	1.9	11.1	USA
		TW-HMX-2202	1.9	11.1	USA
		TW-HMX-2003	2.3	13.3	USA
		TW-HMX-2103	2.3	13.3	USA
		TW-HMX-2203	2.3	13.3	USA
		TW-HMX-2004	2.64	15.54	USA
		TW-HMX-2104	2.64	15.54	USA
		TW-HMX-2204	2.64	15.54	USA
		TW-HMX-2005	3.02	17.76	USA
		TW-HMX-2105	3.02	17.76	USA
		TW-HMX-2205	3.02	17.76	USA

ANNEX 6

SHIPBOARD INCINERATORS

Approved in accordance with appendix 2 of resolutions MEPC.59(33) and MEPC.76(40), as amended

Manufacturing Countries	Manufactured by	Type and Model	Maximum Capacity KW	Approving Governments
1. Croatia	3 MAJ TIBO d.d. Dalmatinskih brigada 17 51211 Matulji CROATIA	SH-20-SR SM 550	441 821	Cro Cro
2. Denmark	Atlas Incinerators A/S P.O. Box 143 Masnedoevej 73 DK-4760 Vordingborg Denmark	MAXI-25 SL MAXI-50 SL WS MAXI 50 SL-1 ATLAS 200 S ATLAS 200 SL ATLAS 200 S WS ATLAS 200 SL WS ATLAS 600 S ATLAS 600 S WS ATLAS 600 SL P ATLAS 600 SL WS P ATLAS 800 S ATLAS 800 S WS ATLAS 800 SL P ATLAS 800 SL WS P ATLAS 1200 S ATLAS 1200 SL M ATLAS 1200 S WS ATLAS 1200 S XL WS ATLAS 1200 SL WS M ATLAS 1200 SL XL WS M MAXI 100 S MAXI 100 S WS MAXI 100 SL MAXI 100 SL WS	150 372 372 209 209 209 209 209 581 581 581 581 581 814 814 814 814 814 1163 1163 1163 1163 1163 1163 1163 580 580 580 580	RF Nor
3. Japan	Sunflame Co.Ltd. Kyoto, Japan	OSV – 360 SAI OSV – 600 SAI	360 600	Nor Nor
4. Norway	1. TEAMTEC AS P.O. Box 203 N-4901 Tvedestrand	GS 500 CSV GS 1200 C GS 1500 C	850 1200 1500	Nor Nor Nor
	2. Scanship Engineering AS Tøngsberg, Norway	SE 600 SE 800 SE 1000 SE 1150 SE 1400 SE 1600	600 800 1000 1150 1400 1600	Nor Nor Nor Nor Nor Nor

Manufacturing Countries	Manufactured by	Type and Model	Maximum Capacity KW	Approving Governments
4. Norway (Cont'd)	3. Norsk Inova AS Nottoden, Norway	NH 600 SG-S NH 1200 SG-S NH 1600 SG-S	600 1200 1600	Nor Nor Nor
5. Republic of Korea	1. Kang Rim Industries Co. Ltd. Saha-gu, Pusan-city	IMO-KV-30SDA IMO-KIN-50SDA IMO-KIN-70SDA IMO-KIN-80SDA KEI-50SDA KEI-99SDA KIN-99SDA KEI-70SDA KGI-5SDA KEI-30SDA KGI-10SDA	346 603 847 928 603 1157 1157 848 58 348 147	ROK ROK; Nor ROK; Nor ROK; Nor ROK; Nor ROK; Nor ROK; Nor Nor Nor Nor Nor
	2. Hyundai Marine Machinery Co. Ltd., Seo-gu, Inchon-city	IMO-MAXI-25SL-1 IMO-MAXI-50SL-1 IMO-MAXI-100SL-1 - W/S IMO-MAXI-150SL-1 IMO-MAXI-100SL-1 IMO-MAXI-150SL-1 - W/S	208 371 580 812 580 812	ROK ROK ROK ROK ROK ROK
	3. Green and Clean Technology Co. Ltd Ulsan City Republic of Korea	GC-20I GC-30I GC-50I GC-70I	209 372 616 849	Nor Nor Nor Nor
	6. Spain DETEGASA Ctra. Castro-Meiras 15550 Valdoviño La Coruña	DELTA IR-10 DELTA IRL-10 DELTA IR-30 DELTA IRL-30 DELTA IR-50 DELTA IRL-50 DELTA IR-65 DELTA IRL-65	116.3 116.3 348.9 348.9 581.5 581.5 755.95 755.95	Spain Spain Spain Spain Spain Spain Spain Spain
	7. United Kingdom Hamworthy Engineering Limited	Series 40 R Type "C"	517.5	UK
8. United States	Therm-Tec, Inc. 20525 S.W. Cipole Rd Sherwood, OR 97140	Model M8	523	USA

ANNEX 7

15 PPM BILGE SEPARATORS

Approved in accordance with part 1 of the Annex to
resolution MEPC.107(49)

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m ³ /h	Approving Governments
1. Germany	1. NFV Nord-deutsche Filter-Vertriebs-GmbH Tarperring 33 22419 Hamburg	MPEB-1 MPEB-2.5 MPEB-5 MPEB-10 MPEB-VT-1 MPEB-VT-2.5 MPEB-VT-5 MPEB-VT-10 MPEB-VT-0.1 MPEB-VT-0.25 MPEB-VT-0.5 PPT-BWS/MESB-100 PPT-BWS/MESB-250 PPT-BWS/MESB-500 PPT-BWS/MESB-1000 PPT-BWS/MESB-2500 PPT-BWS/MESB-5000 PPT-BWS/MESB-10000	1 2.5 5 10 1 2.5 5 10 0.1 0.25 0.5 0.1 0.25 0.5 1 2.5 5 10	FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG
	2. B + V Industrie-technik GmbH Hermann-Blohm-Str.5 20457 Hamburg Germany	Turbulo Entöler: TMPB 0.25 TMPB 0.5 TMPB 1 TMPB 2.5 TMPB 5 TMPB 10	0.25 0.5 1 2.5 5 10	FRG FRG FRG FRG FRG FRG
	3. RWO GmbH Leerkämpe 3 D-28259 Bremen	SKIT S DE 0.1 SKIT S DE 0.25 SKIT S DE 0.5 SKIT S DE 1.0 SKIT S DE 1.5 SKIT S DE 2.5 SKIT S DE 5.0 SKIT S DE 10.0 SKIT S DEB 0.1 SKIT S DEB 0.25 SKIT S DEB 0.5 SKIT S DEB 1.0 SKIT S DEB 1.5 SKIT S DEB 2.5 SKIT S DEB 5.0 SKIT S DEB 10.0	0.112 0.25 0.5 1.0 1.5 2.5 5.0 10.0 0.1 0.25 0.5 1.0 1.5 2.5 5.0 10.0	FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG FRG
	4. Westfalia Separator Mineraloil Systems GmbH D-59302 Oelde	WTC 2-03-107 Bilgemaster 200 Bilgemaster 1500 Bilgemaster 3000 Bilgemaster 6000	0.2 0.2 1.5 3.0 6.0	FRG FRG FRG FRG FRG

Manufacturing Countries	Manufactured by	Type and Model	Maximum Throughput m ³ /h	Approving Governments
1. Germany (Cont'd)	5. DVZ-Services GmbH/ ENVEKO GmbH Kirchweyher Str. 8 D-28844 Weyhe	PCM 250	0.25	FRG
		PCM 1000	1.0	FRG
		PCM 2500	2.5	FRG
		DVZ 250 FSU-B- "OILCHIEF"	0.25	FRG
		DVS 500 FSU-B- "OILCHIEF"	0.5	FRG
		DVZ 1000 FSU-B- "OILCHIEF"	1.0	FRG
		DVZ 2500 FSU-B- "OILCHIEF"	2.5	FRG
		DVZ 5000 FSU-B- "OILCHIEF"	5.0	FRG
		DVZ 10000 FSU-B- "OILCHIEF"	10.0	FRG
		DVZ 250 FSU- "OILCHIEF"	0.25	FRG
		DVZ 500 FSU- "OILCHIEF"	0.5	FRG
		DVZ 1000 FSU- "OILCHIEF"	1.0	FRG
		DVZ 2500 FSU- "OILCHIEF"	2.5	FRG
		DVZ 5000 FSU- "OILCHIEF"	5.0	FRG
		DVZ 10000 FSU- "OILCHIEF"	10.0	FRG

ANNEX 8**15 PPM BILGE ALARMS**

**Approved in accordance with part 2 of the Annex to
resolution MEPC.107(49)**

Manufacturing Countries	Manufactured by	Type and Model	Approving Governments
1. Germany	DECKMA Hamburg GmbH Kieler Strasse 316 22525 Hamburg	OMD 2005	FRG
