

## Alternate Management Systems<sup>1</sup> (AMS) Accepted by the U.S. Coast Guard 23 July 2014

Manufacturer	System Name	Accepted Models	Acceptance Date	AMS Identification No.	Accepted for Use in		
					Freshwater <sup>2</sup>	Brackish <sup>3</sup>	Marine <sup>4</sup>
Alfa Laval Tumba AB - Sweden	PureBallast	Models 250 to 2500 with associated filters	15-Apr-13	AMS-2013-AlfaLaval-PureBallast-001		X	X
Alfa Laval Tumba AB - Sweden	PureBallast	Models 2.0 and 2.0Ex with associated filters	15-Apr-13	AMS-2013-AlfaLaval-PureBallast-002		X	X
Alfa Laval Tumba AB - Sweden	PureBallast 3.0	Model 3.0 -300, -600, and -1000	4-Jun-14	AMS-2014-AlfaLaval-PureBallast-003		X	X
Alfa Laval Tumba AB - Sweden	PureBallast 3.0	Model 3.0 EX -300, -600, and -1,000	4-Jun-14	AMS-2014-AlfaLaval-PureBallast-004		X	X
Aqua Engineering Company, Ltd. – Korea	AquaStar	Models H-200, -200S, -250, -300, -350, -450, -550, -650, -700, and -750	7-Jan-14	AMS-2014-AquaStar-001		X	X
Aqua Engineering Company, Ltd. – Korea	AquaStar-EX	Models H-200S-EX, -300-EX, -350-EX, and -650-EX	7-Jan-14	AMS-2014-AquaStar-002		X	X
Aqua Engineering Company, Ltd. – Korea	MacGregor-AquaStar	Models H-150, -200, -200S, -250, -300, -350, -400, -450, -550, -650, -700, and -750	23-May-14	AMS-2014-MacGregor-AquaStar-001		X	X
Aqua Engineering Company, Ltd. – Korea	MacGregor-AquaStar EX	Models H-200S-EX, -300-EX, -350-EX, and -650-EX	23-May-14	AMS-2014-MacGregor-AquaStar-002		X	X
Auramarine, Ltd. – Finland	CrystalBallast	Models CB-75 and -250 with associated filters	7-Jan-14	AMS-2014-Auramarine-CrystalBallast-001		X	X
BIO-UV SAS – France	BIO-SEA®	Models 100, -200, -300, -400, -500, -600, -700, -800, -900, -1000, -1100, -1200, -1300, -1400, -1500, -1600, -1700, -1800, -1900, and -2000 with associated filters	4-Mar-14	AMS-2014-BIO-UV-BIO-SEA-001		X	X

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COSCO Shipbuilding Industry Company – China	Blue Ocean Shield	Models BOS02 and BOS05, with treatment rated capacities of 100 to 3,500 m3/hr, with associated filters	19-Nov-13	AMS-2013-COSCO BOS-001		X	X
DESMI Ocean Guard A/S - Denmark	OxyClean	Models OxyClean 75, -100, -200, -300, -400, -500, -600, -700, -800, -900, -1000, -1200, -1300, -1400, -1500, -1600, -1700, -1800, -1900, -2000, -2100, -2200, -2300, -2400, -2500, -2600, -2700, -2800, -2900, and -3000, with associated filters	11-Oct-13	AMS-2013-DESMI-OxyClean-001	X	X	X
Ecochlor Inc. – USA	Ecochlor	Series 75, 100, 150, 200, 250, and 300, with filter models BS-050 to BS-1200	15-Apr-13	AMS-2013-Ecochlor-001		X	X
ERMA FIRST ESK Engineering Solutions SA – Greece	ERMA FIRST	Models BWTS 50, -100, -200, -300, -400, -500, -600, -700, -800, -900, -1000, -1100, -1200, -1300, -1400, -1500, -1600, -1700, -1800, -1900, -2000, -2100, -2200, -2300, -2400, -2500, -2600, -2700, -2800, -2900, and -3000, with associated filters	11-Oct-13	AMS-2013-ERMA FIRST BWTS-001		X	X
GEA Westfalia Separator Group, Gmbh. – Germany	BallastMaster	Model Ultra V 250 with associated filters	11-Nov-13	AMS-2013-GEA Westfalia BallastMaster-001		X	X
Hyde Marine, Inc. – USA	Guardian	Models HG-60, -100, -150, -200, -250, -300, -350, -400, -450, -500, -600, -700, -800, -900, -1000, -1250, -1350, -1400, -1488, -1600, -2000, -2500, -2975, -4000, -5000, and -6000, with alternative filters SF50, SF70, and SF90	15-Apr-13	AMS-2013-Hyde-Guardian-001		X	X

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Hyundai Heavy Industries – Korea	EcoBallast™	Models 360, -600, -700, -720, and -1000 with associated filters, UV reactors, and cleaning unit	4-Mar-14	AMS-2014-Hyundai EcoBallast-001		X	X
Hyundai Heavy Industries – Korea	HiBallast	Models HiB-75, -150, -225, -300A, -300B, -500, -600, -900, -1000, -1200, -1200, -1500, and -2000, with associated filters	24-Jun-13	AMS-2013-Hyundai-HiBallast-001		X	X
Hyundai Heavy Industries – Korea	HiBallast-EX	Models HiB-75-Ex, -150-Ex, -225-Ex, -300A-Ex, -300B-Ex, -500-Ex, -600-Ex, -900-Ex, -1000-Ex, -1200-Ex, -1500-Ex, and -2000-Ex, with associated filters	24-Jun-13	AMS-2013-Hyundai-HiBallast-EX-001		X	X
JFE Engineering Corp. – Japan	Ballast Ace	Model 4500 with Treatment Rated Capacity from 17.5 to 4,500 m <sup>3</sup> /h, with associated filters and active substances	15-Oct-13; renewed 14-Apr-14	AMS-2013-JFE BallastAce-001		X	X
Jiangsu Nanji Machinery Company, Ltd. – China	NiBallast	Models NB-200, NB-300, NB-400, NB-500, NB-600, NB-800, NB-1000, and NB-1500, with associated filters	15-Nov-13	AMS-2013-Jiangsu Nanji NiBallast-001	X	X	X
Jiujiang Precision Measuring Technology Research Institute - China	OceanDoctor	Models HBS-250, -500, -1000, -1500, -2000, -2500, -3000, -4000, and -5000	6-Jun-14	AMS-Jiujiang OceanDoctor-001		X	X
Knutsen OAS Shipping AS – Norway	KBAL	Models BWTS-200 and -600	3-Mar-14	AMS-2014-Knutsen KBAL-001		X	X
Kururay Co., Ltd – Japan	MICROFADE	Models MF-125, -250, -375, -500, -625, -750, -1000, -1250, -1500, -1750, -2000, -2250, -2500, -2750, -3000, -3250, -3500, -3750, and -4000, with associated filters	28-Oct-13	AMS-2013- Kuraray MICROFADE-001		X	X

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Mahle Industriefiltration GmbH – Germany	Ocean Protection System	Models OPS-50, -100, -150, -200, -250, -300, -350, -400, -500, -600, -700, -750, -800, -900, -1000, -1100, -1250, -1500, -1750, and -2000, with associated filters	12-Feb-14	AMS-2014-MAHLE OPS-001		X	X
MMC Green Technology AS – Norway	MMC BWTS	Models 150 and 300, with associated filters	29-Aug-13	AMS-2013-MMC-BWMS-001		X	X
NEI Treatment Systems, LLC – USA	Venturi Oxygen System (VOS)	Models VOS-500 through -6000	16-Dec-13	AMS-2013-NEI VOS-001	X	X	X
NK Company, Ltd – Korea	BlueBallast	Models NK-O3-010, -015, -030, -040, -050, -075, -100, -150, -200, -250, -300, and -400	15-Apr-13	AMS-2013-NKO3-BlueBallast-001		X	X
OceanSaver AS – Norway	OceanSaver MK II	MK II models C2E-S200/5/13, C2E-S405/5/13, C2E-S610/5/13, C2E-S815/5/13, C2E-S1020/5/13, C2E-M1220/5(S)/13, C2E-M1425/5(S)/13, C2E-M1630/5(S)/13, C2E-M1835/5(S)/13, C2E-M2040/5(S)/13, C2E-M2245/5(S)/13, C2E-L2445/5(S)/13, C2E-L2650/5(S)/13, C2E-L2855/5(S)/13, C2E-L3060/5(S)/13, C2E-L3265/5(S)/13, C2E-L3465/5(S)/13, C2E-L3670/5(S)/13, C2E-L3875/5(S)/13, C2E-L4080/5(S)/13, C2E-S230/5(S)/17, C2E-S460/5(S)/17, C2E-S690/5(S)/17, C2E-S920/5(S)/17, C2E-S1150/5(S)/17, C2E-M1385/5(S)/17, C2E-M1615/5(S)/17, C2E-M1845/5(S)/17, C2E-M2075/5(S)/17, C2E-M2305/5(S)/17, C2E-M2535/5(S)/17, C2E-L2765/5(S)/17, C2E-L3000/5(S)/17, C2E-L3230/5(S)/17, C2E-L3460/5(S)/17, C2E-L3690/5(S)/17, C2E-L3920/5(S)/17, C2E-L4150/5(S)/17, C2E-L4385/5(S)/17, and C2E-L4615/5(S)/17, with associated filters	23-Sep-13	AMS-2013-OceanSaver MK II-001		X	X

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Optimarin AS – Norway	Optimarin Ballast System	Optimarin Ballast System and filter modules Micro-Kill BSF Filter, Filtrex ACB Filter, and Micro-Kill Boll Filter Selfclean	18-Jun-13; renewed 23-May-14	AMS-2013-Optimarin Ballast System-001		X	X
Panasia Co., Ltd. – Korea	GloEn-Patrol	Models P-50, -150, -250, -300, -350, -500, -700, -750, -800, -900, -1000, -1200, -1500, -2000, -2500, -3000, -3500, -4000, -4500, -5000, and -6000, with associated filters	29-Apr-13	AMS-2013-PANASIA-GloEn-Patrol-001		X	X
Qingdao Headway Technology Co., Ltd. – China	OceanGuard™	OceanGuard BWTS, with filters HMT-100F to -400F	15-Apr-13	AMS-2013-Headway-OceanGuard-001		X	X
Qingdao Headway Technology Co., Ltd.– China	OceanGuard™	Models HMT-50, -100, -200, -300, -450, -600, -800, -1000, -1200, -1500, -2000, -2500, and -3000	23-Sep-13	AMS-2013-Headway-OceanGuard-002		X	X
		Associated Filter Units HMT-100F, -200F, 300F, -500F, -600F, -800F, -1000F, -1500F, -2000F, -3000F, -4000F, and -5000F					
		Associated EUT units HMT-50E, HMT-100E, -200E, -300E, -450E, -600E, -800E, -1000E, -1200E, -1500E, -2000E, -2500E, and -3000E					
RWO GmbH Marine Water Technology, Veolia Water Solutions and Technologies – Germany	CleanBallast®	Models 150, -200, -250, -300, -350, -400, -450, -500, -500-1, -750, -1000, -1250, -1500, -1750, -2000, -2250, -2500, -2750, -3000, -3250, -3500, and -3750 and modular configurations, with associated filters	15-Apr-13	AMS-2013-RWO-CleanBallast-001		X	X
SAMKUN CENTURY Company, Ltd. – Korea	ARA PLASMA	Models ARA-017, -028, -039, -063, -092, -126, -150, -190, -230, -250, and -300, with associated filters	29-Oct-13	AMS-2013-SAMKUN ARA PLASMA-001		X	X
Samsung Heavy Industries Company, Ltd. – Korea	Purimar 2.0	Models SP-25, -25(Ex), -50, -50(Ex), -75, -75(Ex), -100, -100(Ex), -150, -150(Ex), -200, -200(Ex), -250, -250(Ex), -300, -300(Ex), -350, -350(Ex), -400, -400(Ex), -450, -450(Ex), -500, -500(Ex), -550, -550(Ex), -600, -600(Ex), -650, and S-650(Ex), with associated filters	4-Oct-13; renewed 23-May-14	AMS-2013-Samsung Purimar-001		X	X

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Severn Trent De Nora, LLC-USA	BalPure	Models BP-500, -675, -1000, -2000, -2650, -3000, -4000, and -5000, with associated filters	15-Apr-13	AMS-2013-STDN-BalPure-001		X	X
Shanghai Cyeco Environmental Technology Co., Ltd. – China	Cyeco BWTS	Models B200. -250, -300, -400, -500, -600, -750, -800, -1000, -1200, -1500, -2000, -3000, -4000, -5000, and -6000	3-Jul-14	AMS-2014-Shanghai Cyeco-001		X	X
STX Heavy Industries Company, Ltd. – Korea	Smart Ballast	Models SB-EC300, -EC600, -EC800, and -EC1000	7-Jan-14	AMS-2014-STX Smart Ballast-001		X	X
SunRui Marine Environmental Engineering Company – China	BalClor	Models BC-300, -500, -1000, -1500, -2000, -2500, -3000, -3500, -4000, -5000, -6000, and -7000, with associated filters	1-May-13	AMS-2013-SunRui-BalClor-001		X	X
Techcross, Inc. – Korea	Electro-Cleen	Models ECS-150B, Ex-ECS-150B, ECS-300A, Ex-ECS-300A, ECS-300B, Ex-ECS-300B, ECS-450B, Ex-ECS-450B, ECS-600A, Ex-ECS-600A, ECS-600B, Ex-ECS-600B, ECS-1000A, ECS-1000B, and Ex-ECS-1000B, with parallel treatment configurations as approved by the flag administration	4-Oct-13	AMS-2013-Techcross Electro-Cleen-001		X	X
Trojan Technologies – Canada	Marinex	Models 150, 250, and 500, with parallel treatment configurations as approved by type-approving authority on a case-by-case basis	21-Jul-14	AMS-2014-Trojan Marinex-001	X	X	X
Wartsila Water Systems Ltd. – England	Aquarius UV	Models AQ-50-UV, -80-UV, -125-UV, -180-UV, -250-UV, -300-UV, -375-UV, -430-UV, -500-UV, -550-UV, -750-UV, -850-UV, and -1000-UV, with capacities up to 6000 m <sup>3</sup> /h achieved by using multiple units in parallel	28-Oct-13	AMS-2013-AQUARIUS UV-001	X	X	X
Wuxi Brightsky Electronic Company, Ltd. – China	BSKY	Models BSKY100, -150, -200, -250, -300, -350, -400, -450, -500, -600, -700, -800, -900, -1000, -1100, -1200, -1300, -1400, -1500, -2000, -3000, -4000, -5000, and -6000, with associated filters Associated filter models BS-025H-03, -050H-04, -050H-06, -070H-06, -100H-08, -100H-T-08, -150H-10, -150H-T-10, -200H-12, -200H-T-12, -300H-14, -300H-T-14, and -400SH-14	4-Oct-13	AMS-2013-BSKY BWTS-001		X	X

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