Headway has established more than 120 sales/after-sales service stations in 56 countries and regions around the world.



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HEADWAY TECHNOLOGY GROUP CO., LTD.



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ABOUT US

Headway is a high-tech enterprise with the purpose of scientific and technological innovation, dedicated into providing low carbon solutions and technical service worldwide. Headway owns independent R&D center and production base in Qingdao, China.

Headway established independent R&D centers and manufacturing facilities. The BWMS manufacturing facility has an annual production capacity of 1,000 sets. With branches in Shanghai, Singapore, Japan and Greece, 15 agencies in Guangzhou, Dalian, Zhoushan, and more than 120 service/technical support stations in 56 countries and regions, Headway built a comprehensive global service network.

Headway's product portfolio includes 3 segments: Carbon Neutralization, Water Treatment and Smart Shipping, which are all developed under the long adherent R&D ideology of "Be Innovative, Stay Excelsior".

Headway is willing to continue the cooperation with global partners based on mutual trust and benefit, to embrace the future of green shipping and sustainable development, pioneer in decarbonization strategy, zero-emission shipping and marine environmental protection.





Deep Electrocatalysis BWMS



Specification:

- Flow Rate: 65 -5,200 m³/h for a single unit.
- Temperature: No limit.
- Main-stream Salinity: No limit.
- Side-stream Salinity: Minimum 8 PSU.
- Target TRO: 9.5mg/L in main ballast pipe.
- Minimum Hold Time: 48 hours.
- Maximum Allowable Discharge Concentration: 0.1 mg/L.

Model	0G-B-01	0G-B-02	0G-B-03	0G-B-04	OG-B-05	0G-B-06	OG-B-07	OG-B-08	OG-B-09	0G-B-10	OG-B-11	OG-B-12	0G-B-13	OG-B-14
Flow Range (m³/h)	65	130	260	390	585	780	1,040	1,300	1,560	1,950	2,600	3,250	3,900	5,200

BWMS



FILTER -

- Low-Backpressure and High-Backpressure filter solutions designed for deckhouse installation;
- Compact design brings flexible layout to vessels of different type and size;
- Larger filter area and extra pressure endurance*. Filter elements
 can endure up to 5 bar instantaneous pressure or 1.5 bar
 constant pressure;
- Stable performance under extrem TSS and biological concentration;
- Duplex Stainless Steel casted body provides extra corrosion resistant.

Filter Specification

Model Volume (L)			Flow Range (m³/h)			
S-ZFO-W	60	550	395	765	10-75	
S-ZF1-W	120	757	704	1,080	10-150	
S-ZF2-W	130	757	704	1,080	10-260	
S-ZF3-W	155	757	704	1,277	50-390	
S-ZF4-W	650	1,145	890	1,577	50-650	
S-ZF5-W	690	1,145	890	1,577	50-780	
S-ZF6-W	750	1,145	890	1,730	50-1,040	
S-ZF7-W	790	1,145	890	1,730	50-1,300	
S-ZF8-W	1,062	1,350	1,300	1,862	100-1,560	
S-ZF9-W	1,130	1,550	1,300	1,862	100-1,950	
S-ZF10-W	1,670	1,541	1,372	1,744	100-2,600	
S-ZF11-W	1,720	1,541	1,372	2,032	100-3,250	
S-ZF12-W	1,760	1,541	1,372	2,032	100-3,900	
S-ZF13-W 2,800		1,716	1,565	2,480	100-5,200	



EUT



EUT UNIT .

Advanced Electro-catalysis Oxidation Process

- Adopting electron excitation to special semiconductive material, highly active Hydroxyl Radicals (·OH) will be produced from water molecules and neutrolize micro-organisms by destroying cell membrane;
- No consumables and maintenance-free;
- Not affacted by temperature nor turbidity;
- No need to increase power consumption under low-salinity nor high-turbidity.

Model	Consumption (kW)		Size (mm)		Flow Range (m³/h)
HMT-50E	0.8	381	445	1,530	10-65
HMT-100E	1.5	381	445	1,530	10-130
HMT-200E	3	381	527	1,530	20-260
HMT-300E	4.5	426	612	1,701	30-390
HMT-450E	6.8	456	737	1,821	30-585
HMT-600E	9	505	737	1,957	50-780
HMT-800E	13	505	874	1,957	50-1,040
HMT-1000E	17	605	847	2,123	50-1,300
HMT-1200E	21	605	922	2,123	50-1,560
HMT-1500E	25	663	914	2,208	50-1,950
HMT-2000E	34	663	1,322	2,208	100-2,600
HMT-2500E	42	695	1,487	2,212	100-3,250
HMT-3000E	52	695	1,487	2,222	100-3,900
HMT-4000E	69	695	1,487	2,222	100-5,200

08





Romote Control

With cloud-based control function, OceanGuard® BWMS is capable of remote data-collection, operation and system diagnosis via Headway's Integrated Intelligent Shipping Platform.

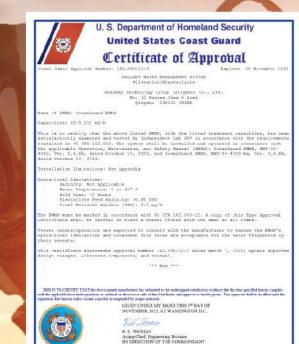
CONTROL

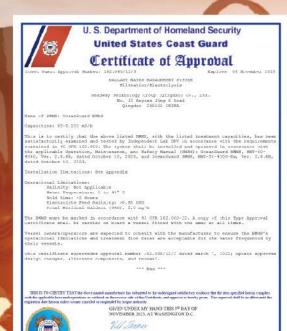
- Local and Remote Control;
- Compatible with vessel's control system;
- Apply Siemens HMI and PLC for real-time collect and process, with 24-month data storage;
- One-key operation and user friendly interface.



TYPE APPROVALS

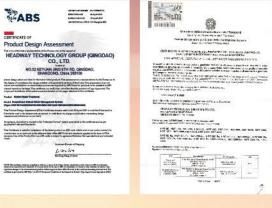






S. Coast Guard

Type Approval



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ADVANTAGES

Small Footprint & Low Consumption

Consumption is approx. 17kW for the treatment of 1,000m³ of ballast water

-Effective Sterilization-

Complete sterlization, 2-hour hold time approved by USCG and Revised G8 regulation

One-Key Operation —

"One Key" operation for Ballast, Deballast and self-cleanning of filter

-Safe & Corrosion-Free-

No harmful by-product such as $\rm H_2$ or $\rm Cl_2$ and no corrosion to the hull



WORLD'S FIRST BWMS onboard Medical Vessel

WORLD'S ONLY USCG & Revised G8

Approved Independent
Filter



CHINA'S FIRST Independently developed BWMS

, WORLD'S ONLY

BWMS that holds Indepentdent IP Rights



CHINA'S FIRST Board Member of Ballast

Board Member of Ballast Water Equipment Manufacturers Association



ONE-STOP SERVICE









Retrofitting Process

WEEK 1 - 3

- Onboard Inspection/3D Scanning
- Schedule Planning
- Quotation

WEEK 4 - 10

- Contract Signing
- Component Purchase
- Plan Approval
- Production

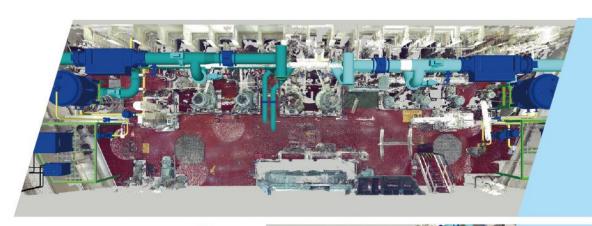
WEEK 11 - 12

- Installation
- Commissioning
- Class Approval
- Operation Training





BWMS SOLUTIONS





ТУРЕ	Bulk Carrier
SIZE	82,000 DWT
MODEL	HMT-1200 x 2

