

## MARINER OMNIPURE®



Compact Sanitation Devices for the Workboat Vessel Market



MARINER OMNIPURE® MODEL M2512V

The MARINER OMNIPURE® series of Marine Sanitation Devices offer a fresh approach to sewage treatment in the workboat vessel market. With treatment capacities of up to 60 persons (black water) and up to 25 persons (black and gray), the largest unit treats 1,796 gallons (6,800 Liters) of human wastewater per day. The USCG Certified Type II MARINER OMNIPURE units incorporate the same electrolytic treatment benefits of any other OMNIPURE unit, but with the added advantages of less maintenance and a small, compact size to fit vessels in the workboat vessel market.

#### COMPACT AND LIGHTWEIGHT

This unit uses an efficient macerator and compact piping arrangement, mounted on a formed steel base coated with Severn Trent De Nora's durable offshore three coat marine coating system. Its small, lightweight configuration is easily fitted into the confined spaces found on many of today's oceangoing vessels. Small tanks also make installation an easy matter. Local control panel houses all electronics for system operation.

#### SIMPLE OPERATION

The MARINER OMNIPURE control logic manages the unit's treatment process automatically, with minimal operator interface. There are no complicated operator controls. Manual selector switches are all that are needed for operation. Pilot lights are included on the control panel door.

#### INSTALLED SEAWATER PUMP (OPTIONAL)

This unit can be supplied with an integral seawater pump for added convenience on vessels that may not have a pressurized seawater line. A flooded pump suction is required. Seawater is also used to drive the unique overboard discharge eductor unit, which pumps both the treated effluent and waste gases from the process to sea. No additional pump or air powered vent system is required.





MARINER OMNIPURE® MODEL M6025V

#### ELECTROLYTIC CELL

The MARINER OMNIPURE® provides effective electrolytic treatment of both black and gray water through a patented and certified treatment process. Like other OMNIPURE products, this unit produces a sodium hypochlorite disinfection solution from seawater in the presence of sewage to effectively treat all sewage. Electrolytic treatment of marine sewage puts an end to chemical storage issues, dosing equipment and costs associated with the use of hazardous chemicals since the disinfection solution is produced onsite while the unit is in operation. A closed loop cell cleaning feature allows maintenance to be performed on the cell without the need to open the cell and clean by hand.

#### EASY-TO-UNDERSTAND OWNER'S MANUAL

Every MARINER OMNIPURE unit is shipped with an easy-to-understand owner's manual. The operating logic, system drawings and USCG Certificate are included.

#### MARINER OMNIPURE® FEATURES AND BENEFITS

- Eliminates storage, handling and purchasing of hazardous chemicals
- No odor or sludge associated with process
- Easy to install, operate and service
  - No filters or screens to clean
  - No microorganisms to keep alive
  - No additional surge tank required
  - Easy to disassemble for better access
- Accommodates varying crew complements
- Operation is not hampered by cleaning fluids
- Operates on-demand, instantaneous on-off operation
- Small footprint and weight
- Closed loop cell cleaning



MARINER OMNIPURE® Design Standards		Model M2512V	Model M4016V	Model M6025V
Personnel Complement (Maximum)	Black Water Only	25†	40†	60†
	Black & Gray Water	12†	16†	25†
Treatment Ratings (Maximum)	Treatment Volume: L/day (Gal/Day)	2960 (781)	4540 (1199)	6800 (1796)
Treatment Flow Rates	Average: L/min (Gal/min)	2.11 (0.56)	3.11 (0.83)	4.70 (1.25)
Dimensions & Weights (Overall Unit Consisting of V-1 Tank, V-2 Tank, & Process Module)	Length: mm (inches)	2797 (110)	2797 (110)	2797 (110)
	Width: mm (inches)	664 (26.25)	664 (26.25)	664 (26.25)
	Height: mm (inches)	938 (37)	1451 (57.25)	1745 (68.75)
	Weight: kg (pounds)	305 (762)	370 (814)	422 (929)
Utility Requirements	Power: KVA	4	4	6.4
	Seawater: L/min (G/min) @ 30-40 PSIG Max	56 (15)*	56 (15)*	56 (15)*
* MARINER OMNIPURE units require seawater supply at all times. Values indicated assume no seawater pump option is selected. Flooded suction required if optional seawater pump is used.				
† 100% capacity shown, STDN recommends that actual operation capacities not exceed 90% of maximum capacity.				
The MARINER OMNIPURE system consists of three key components: V-1 sewage tank, processing unit and V-2 effluent tank. These separate components are provided loose as to better fit the various shaped installation spaces that can be found aboard vessels.				
All information is subject to change.				

### MATERIAL AND PIPING SPECS

- Pipe and valves: Sch. 80 PVC, ASTM D1784, Type 1, Grade 1, corrosion resistant. All pipe and valves are solvent welded.
- Steel and Paint: Formed carbon steel with three coat marine paint system.
- Easily dismantled for installing in confined spaces.



MARINER OMNIPURE® MODEL M4016V