

Type III MSD Waste Management System

- Rugged Polyethylene holding tank
- Barbed fittings for all hose connections
- Heavy Duty Macerator
- Evacuation pump
- Three run-dry and accidental activation safety features
- Touch-pad waste management control panel
- Additional dock side evacuation pickup

PUMP FEATURES

Pump:	Self-Priming Flexible Impeller with Stainless Steel Wearplate
Impeller:	Jabsco Nitrile compound
Macerator:	Stainless Steel Cutter reduces particle size to 1/8" (3mm) maximum
Seal:	Lip Type
Ports:	Inlet - 1 -1/2" (38mm) Hose Barb and 1-1/2" N.P.T. (Male) Outlet - 1" (19mm) Hose Barb
Motor:	Permanent Magnet Type, Fully Enclosed, with Stainless Steel Shaft Includes Run-Dry Protection Device that shuts-off pump. Powder coated housing with sealed end-bells and bearings

System Features

Level Indication: When pressed, the level indicator will illuminate for 1 minute. When the tank level reaches full, the indicator will flash automatically to alert the user to empty the tank.

Sleep Mode: If the flashing LED is a disturbance the unit can be put into sleep mode. The unit will emerge from sleep if the system is turned off or the tank level is increased. NOTE: the unit is unable to be put into sleep mode if the tank is 7/8 full or greater.

Empty Button: This button needs to be pressed and held for 3 seconds to activate the pump. This eliminates the possibility of accidental operation.

Averaging: Two different level averaging methods have been used - one when filling and one when emptying. This compensates for the the boats movement when the tank is filling, and still allows an accurate reading when emptying.

Fail Safe Feature: If no fluid movement is sensed 20 seconds after the pump is set to run, the pump will shut down and the fault LED on the indicator panel will flash. This protects the pump from failure. NOTE: To re set the unit simply press the level button, If unit continues to shut down and indicate a fault check pump and plumbing for a blockage.

Installation:

- 1: The holding tank should be located close to the toilet.
- 2: A proper seacock is required if the discharge thru-hull is positioned below the waterline.
- 3: Both the discharge thru-hull and the holding tank are installed to prevent a potential siphon. Contact a marine plumber or Jabsco technical support specialist for installation assistance.
- 4: Mount on a strong flat surface. Note: the area of installation needs to support the weight of the unit and its contents. The total weight for this unit when full can equal 90lbs (40.8kg).
- 5: Four mounting feet (included) need to be attached to the platform with four machine or lag screws and four flat washers.

Plumbing:

Each tank contains:

- 1 x 1 1/2" deck pump out - evacuation pickup tube (install to dockside pump-out deck plate)
- 1 x 1 1/2" inlet port - from toilet system
- 1 x 3" O-ring sealed inspiration hatch
- 1x1" vent* - connect to vent outlet usually sited high on a vessel's hull near the gunwale

- 1x1" Overboard discharge port macerator pump out. Discharge: connect to the overboard discharge thru-hull fitting.

*See plumbing diagram for recommended installation.

Electrical:

Wire the unit in an Independent Circuit.

Consult the wiring table for fuse and wire size.

Consult the wiring diagram for connections.

Wiring Table

VOLTAGE	AMP DRAW	FUSE SIZE	WIRE SIZE PER FEET OF RUN*				
			0"-10"	10"-15"	15"-25"	25"-40"	40"-60"
12 Vdc	16	20	#16(1.5)	#14(2.5)	#14(2.5)	#12(4)	#6(16)
24Vdc	8	15	#18(1)	#16(1.5)	#16(1.5)	#14(2.5)	#10(6)

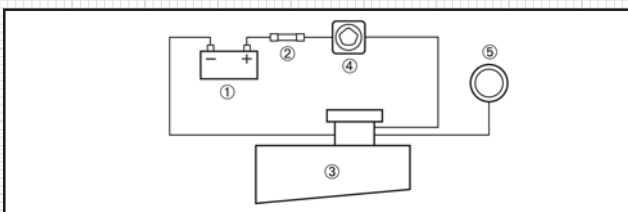
* Length of run is total length of the circuit from the power source to product and back to ground. Wire sizes listed are AWG gauge and metric millimeters.

Maintenance:

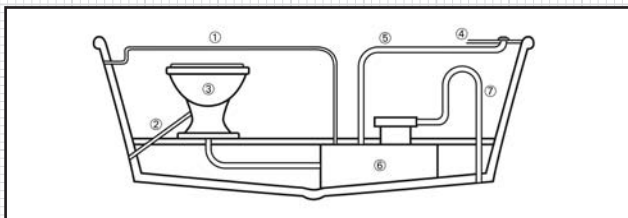
Flush system with clean water to remove any build up of sludge or debris. It is recommended that this process be completed at least once a year. Please reference 18590 Series Macerator datasheet servicing section for details.

Winter storage:

Empty the complete system of all water making sure pipe work and pump are completely free of waste.



KEY	DESCRIPTION
1	Battery
2	Fuse
3	Waste Management System
4	Master Switch
5	Controller for Waste Management System



KEY	DESCRIPTION
1	Vent
2	Inlet
3	Toilet
4	Deck
5	Pumpout
6	Waste Holding Tank
7	Vertical Loop Outlet

KEY	DESCRIPTION	KIT PART NUMBER
1	1-1/2" Barbed Pick-Up tube	38111-0000
2	1-1/2" Barbed Inlet Port	38111-0010
3	Vent 3/4"	38112-0000
	Vent 5/8"	38112-0010
4	Cap and O-Ring	38115-0000
5	Tank	38113-0000
6	Kick Panel	38114-0000
7	Control Box on Tank	38116-0000
8	Sensor Array (Sensors under Kick Panel)	38117-0000
9	Macerator 12v	18590-2092
	Macerator 24v	18590-2094
	15 Foot Control Cable	47010-0000
	20 Foot Control Cable	47020-0000
	30 Foot Control Cable	47030-0000
10	Control Panel 12v	38111-0012
10	Control Panel 24v	38111-0024