

# 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 pick up

# **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 <sup>3</sup>/<sub>4</sub> 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 as close to the toilet and discharge thru-hull fitting
- 2: A proper seacock is required if the discharge thru-hull is positioned below the waterline
- 3: If both the discharge thru-hull and the holding tank are fitted below the waterline, a vented loop must be fitted to prevent a potential siphon being created. If unfamiliar with the installation of a vented loop please consult a marine plumber or contact Jabsco for further details.
- 4: Mount on a strong flat surface. Note the area of installation needs to support the weight of the unit plus its contents. The total weight for this unit when full can equal 90lbs.
- 5: 4 mounting feet are supplied these need to be attached to the platform with 4 machine or lag screws and flat washers

### **Plumbing:**

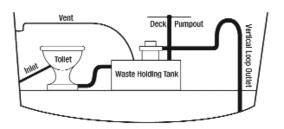
Each tank is fitted with the following:

- 1 x 1  $\frac{1}{2}$  deck pump out evacuation pick up tube fit to dockside pump-out deck plate
- 1 x 1 ½" inlet port from toilet system
- 1 x 3" o-ring sealed inspection hatch
- 1 x 1" vent\* connect to vent outlet usually sited high on a vessels hull near the gunwale.
- 1 x 1" Overboard discharge port macerator pump Discharge

connect to the overboard discharge thru-hull fitting.

See Plumbing Diagram for suggested Installation

### **Plumbing Diagram**



### **Electrical:**

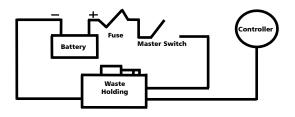
Wire the unit in an Independent Circuit Consult the wiring table for fuse and wire size Consult the wiring diagram for connections

# **Wiring Table**

	AMP FUSE			WIRE SIZE PER FEET OF RUN*			
VOLTAGE	DRAW	SIZE	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)
24 Vdc	8	15	#18(1)	#16(1.5)	#16(1.5)	#14(2.5)	#10(6)

<sup>\*</sup> Length of run is total length of the circuit from the power source to product and back to ground. Wire sizes listed are SAE guage and metric millimeters.

# **Wiring Diagram**



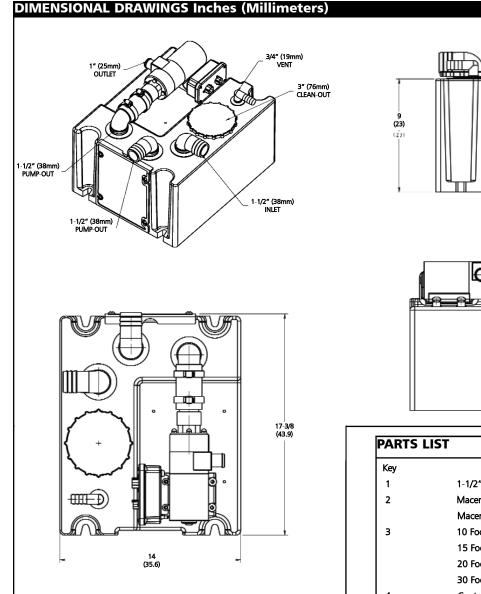
### **Maintenance:**

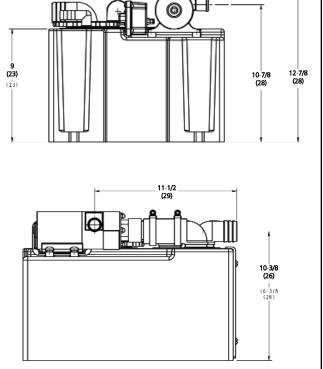
To keep in good working condition flush the system with clean water to remove any build up of sludge or debris. It is recommended that this process be completed at least once a year.

For Macerator pump servicing see 18590 Series Macerator datasheet Servicing Section

# Winter storage:

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

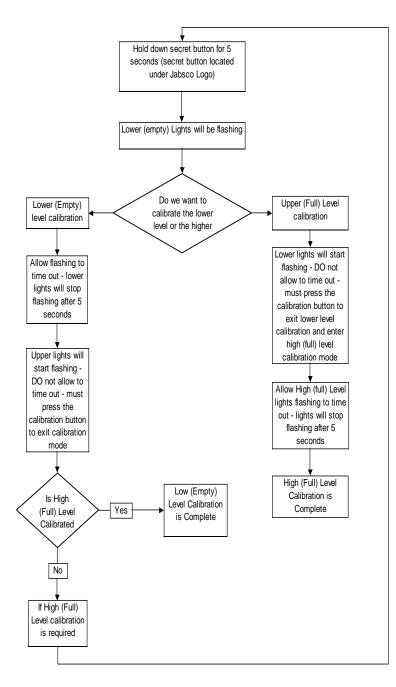




PARTS LIST			
Key	Description	Qty.	Part Number
1	1-1/2" Barbed Elbow Pick-up Tube	2	38112-6000
2	Macerator Motor-12Volt CE	1	18590-1090
	Macerator Motor-24Volt CE	1	18590-1001
3	10 Foot Control Cable	1	47010-6000
	15 Foot Control Cable	1	47015-6000
	20 Foot Control Cable	1	47020-6000
	30 Foot Control Cable	1	47030-6000
4	Control Panel-12Volt	1	38111-6012
	Control Panel-12Volt	1	38111-6024

### **Calibration Process**

**Calibration:** The level sensing equipment is calibrated during manufacture. Re-Calibration is possible however if the unit falls out of calibration or if the user wants to alter the full and empty levels. The chart opposite shows the Calibration procedure.



### Jabsco



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#### ONE YEAR LIMITED WARRANTY

A. LIMITED WARRANTY: Jabsco warrants that at the time of shipment, the products A. Limited warkant 1. Jassed warrans that at the time of simplierin, ine products manufactured by Jabsco and sold hereunder shall be in conformity with applicable written specifications and descriptions referred to or set forth herein, free from defects in material and workmanship, merchantable, and suitable for a particular purpose, provided such is implied by State law under the circumstances of this sale.

#### B. WARRANTY ADJUSTMENT:

- Jabsco agrees to repair or furnish a replacement for, but not to remove or install, any product or component thereof which, within one (1) year from date of purchase, shall upon test and examination by Jabsco prove defective within the above warranty. Receipt verifying purchase date is required to obtain adjustment.
- Buyer shall notify Jabsco of any defect within this warranty no later than ninety (90) days after the defect is discovered.
- No product will be accepted for return or replacement without the prior written authorization of Jabsco. Upon such authorization, and in accordance with instructions from Jabsco, the product will be returned to Jabsco, shipping charges prepaid by Buyer. Products returned to Jabsco will be addressed as follows:

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Or to such alternate locations as may be designated on the product, its container, or this sheet. Repair or replacement made under this warranty will be shipped prepaid to Buyer

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- This warranty does not extend to any product manufactured by Jabsco which has been subjected to misuse, neglect, accident, improper installation, or use in violation of instructions furnished by Jabsco.
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- D. CONSUMER RIGHTS: This warranty gives you specific legal rights, and you may have other rights which vary from state to state. Some states do not allow exclusion or limitation of damages

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