



Model 18590-Series

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SELF-PRIMING MACERATOR PUMP WITH RUN-DRY PROTECTION

FEATURES

Pump: Self-Priming Flexible Impeller with
Stainless Steel Wearplate

Impeller: Jabsco Nitrile compound

NEW

Macerator: Stainless Steel Cutter reduces particle
size to 1/8" (3mm) maximum. New 4
blade design.

Seal: Lip Type

Ports: Inlet - 1-1/2" (38mm) Hose Barb
and 1-1/2" N.P.T. (Male)
Outlet - 1" (19mm) Hose Barb

NEW

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.
**Complies with USCG Regulation
183.410 and ISO 8846 MARINE for
Ignition Protection.**

Weight: 5 lb (2.3 kg) Approx.

SPECIFICATION



Priming - 5ft When Wet
4ft When Dry

HEAD CAPACITY AND FLOW RATES

Head Ft	Meters	GPM	Liters	AMPS	
				12 Volt	24 Volt
0	0	12.5	47	14.0	7.6
5	1.5	11.5	44	14.5	7.8
10	3	10.5	40	15.0	8.1
15	4.5	9.0	34	16.0	8.6
20	6	7.5	28	16.5	8.9

† Flow rates and amperage will vary slightly depending on
pump loading (sanitation system design).

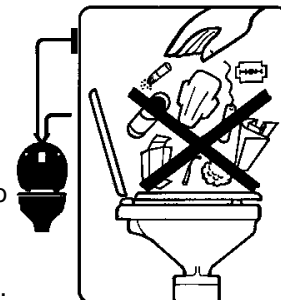
VARIATIONS AVAILABLE

MODEL NO.	DESCRIPTION
18590-2092	12 Volt EMC 
18590-2094	24 Volt EMC 



Grinding Capabilities - capable of grinding waste down
to a particle size of 1/8" (3mm) max.

Capable of passing waste,
toilet tissue, facial tissue,
cigarettes, cigars, chunks of
soft fruit or vegetables less
than 1" size, fish scales, or
bait residue. Not designed to
pass fruit pips, rags, wet
strength kitchen towels,
tampons or sanitary napkins.



APPLICATIONS

WASTE EVACUATION

The Jabsco 18590 series DC macerator pump unit is the
ideal solution for emptying marine holding tanks when
not in a discharge restricted area. Self priming to 5ft this
pump will empty a typical 30 gallon (115 Liter) holding
tank in less than 3 minutes. Duty cycle of the pump is 15
minutes continuous which means a 180 gallon (680 liter)
can be emptied in a single operation

It is recommended that holding tanks be flushed with
several gallons of water after each pump out. This will
reduce the possibility of a continued build up of sediment
in the tank which could cause a potential blockage.

FISH BOX AND LIVELWELL TANK EVACUATION

The Jabsco Macerator Pump is the ideal pump for the
emptying of Fish box and livewell receptacles. Very
often the livewell tank will be above the waterline of the
boat, when this is the case gravity can be used to
empty the livewell tank. If not installed in this format
then it is beneficial to use the Jabsco macerator pump
for evacuation due to its self-priming capabilities and
also it's grinding properties.

Fish boxes are typically mounted into the floor of the vessel and are very often below the waterline or only partially above the waterline. Again the Jabsco Macerator pump has the characteristics that lend themselves to this application. The bait residue particles of ice, fish scales and anything else that could potentially be found in the Fish-Box will be easily passed by the Jabsco Macerator Pump, and the self priming capabilities are perfect for fish box installations common to many of today's sports fishing boats.

GENERAL INSTALLATION SUGGESTIONS

The pump can be mounted in any orientation without loss of performance. It is however recommended that if the pump is mounted vertically then the pump head be mounted below the motor (pump head facing downwards)

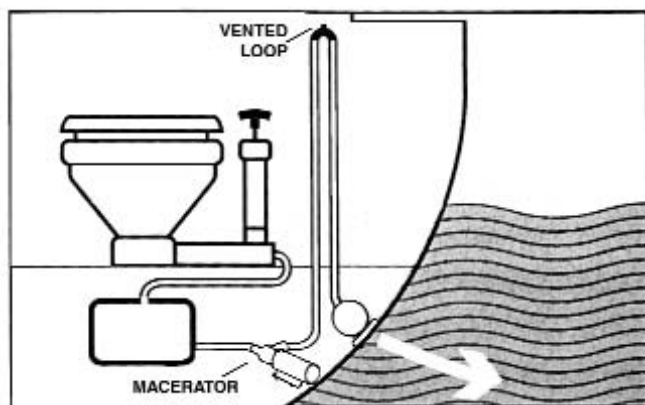
Use the rubber grommets provided to absorb vibration

The Macerator pump can be screwed directly into a 1-1/2" (38mm) NPT tank flange or female pipe fitting. If attaching the inlet port to a pipe fitting it may require removal of the hose barbed port, this can be done using a hacksaw. Wrap port threads with a couple of wraps of Teflon tape and screw the pump assembly into the pipe fitting. Tighten hand tight, do not over tighten.

Please Note: An air leak anywhere in the suction side of the plumbing system can cause extended dry running. All suction connections must be air tight and free of sharp bends or restrictions. If a deck fitting is installed for dockside pump-out and connected to the suction hose of the macerator by means of a tee fitting (without a Y-Valve), it too must be air tight to ensure proper priming.

Use minimum 1" (19mm) ID hose for discharge and connect to thru-hull fitting located approximately 4-6 inches above waterline.

NOTICE: The discharge thru-hull may be positioned below the waterline only if the discharge hose has a vented loop fitting installed at least 8" above the waterline at all angles of heel or trim. Consult with a qualified marine plumber.



INSTALLATION FOR WASTE APPLICATIONS

Although the Jabsco Macerator pump can be installed at any convenient point in the waste discharge system, it is recommended that it be installed as close to the holding tank as possible, this will increase the performance of the pump. It is also recommended that the switch used to control the macerator be mounted close enough to the pump that it can be heard whilst in operation, this will allow the operator to hear a change in pump noise when the unit has finished pumping the tank dry. The pump then should be turned off; this will further increase the life of the pump.

INSTALLATION FOR FISH BOX AND LIVEWELL APPLICATIONS

As with the waste application the Jabsco Macerator Pump can be installed at any convenient point between the fishbox/livewell receptacle and the discharge port. It is recommended that it be installed as close to the tank as possible, this will increase the performance of the pump. It is also recommended that the switch used to control the macerator be mounted close enough to the pump that it can be heard whilst in operation, this will allow the operator to hear a change in pump noise when the unit has finished pumping the tank dry. The pump then should be turned off; this will further increase the life of the pump.

ELECTRICAL

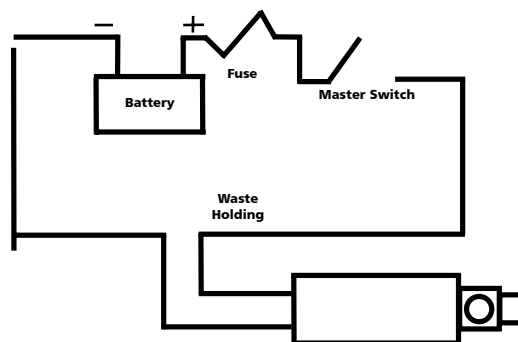
Wire the unit in an Independent Circuit
Consult the wiring table for fuse and wire size
Consult the wiring diagram for connections

WIRING TABLE

VOLTAGE	AMP	FUSE	WIRE SIZE PER FEET OF RUN*				
	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)

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

Wiring Diagram



For technical advice or service please take your pump into your local pump service center.
To order pump or parts or for pricing please go to the following links :

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