SEWAGE - MACERATOR - D.C. MOTOR DRIVE

PIPE SIZE INLET: 2 SLIP-ON 1 1/2 PIPE THREAD OUTLET: 3/4 GARDEN HOSE OR



3/8 PIPE THREAD

FEATURES

- All Bronze Construction
- Large Vent Openings Separate Pump and Motor
- Stainless Steel Motor Shaft
- Motor Shaft Slinger Protects Motor Bearings
- Rubber Motor Grommets for Noise Isolation
- Macerator Wheel and Impeller Easily Replaced
- Removable Base

PUMP INLET

2" slip-on hose section or 1 1/2" NPT standard pipe thread. All suction connections must be air tight to achieve lift.

PUMP OUTLET

 $3\slash\!4"$ external garden hose thread or $3\slash\!8"$ NPT standard pipe thread internal.

MACERATOR

Will handle sewage, waste, toilet paper, cigarettes, cigars and all maceratable solids of approximately 1 inch size.

Will not handle fruit pits, hard plastic utensils, prophylactics, cloth or fabric sanitary napkins.

MOTOR

12 volt D.C. high torque, 18 amps. Intermittent duty cycle. Do not run pump dry.

SUCTION AND DISCHARGE

Self priming up to 4 ft. Up to 20 ft. uphill discharge or up to 50 ft. away. (Use large diameter garden hose - 3/4" - for best results.) A 30 gallon holding tank can be emptied in less than 4 minutes.

CAPACITY Gallons of Water Per Minute 60°F

071171011		- u.i.u.i.u	0	0 0.		•••	
P.S.I.	0	2	4	6	8	10	12
Flow G.P.M.	9	8	7	6	4 1/2	3	1

LIQUIDS AND TEMPERATURE

Liquids compatible with neoprene can be pumped including fresh and salt water solutions and mild chemicals. Do not pump severe solvents or acids. When possible, flush pump with fresh water after each usage. Buna N impellers can handle oil contaminated water and kerosene at reduced impeller service life.

Extremes of cold and heat will affect impeller life. Limits of 40° to 140° F should be observed. Do not allow liquid in pump to freeze. Drain pump by loosening cover screws. Use methyl alcohol based anti-freeze compounds such as Zerex, Shell Zone, Pyro Permanent, Permagard, Dowgard.

SUCTION LIFT

Suction lift of 15 feet is possible when impeller is wet. Suction lines must be air tight in order for pump to self prime. A foot valve at beginning of suction line is recommended.

IMPELLER REPLACEMENT

The impeller must be replaced if it is worn out or has been damaged by debris or by running the pump dry. Symptoms of a defective impeller are low pumping pressure and low flow causing overheating of the boat engine. Poor pump performance can also be caused by slippage of V-belts, so belts should be checked for tightness.

To replace the impeller remove screws and cover. Pull out the impeller with nose pliers or two screwdrivers. Be careful not to dent the pumping chamber with these tools. When inserting new impeller, line up key slot in impeller with the key in the shaft. Use oil on shaft and avoid forcing the impeller onto the shaft.

The impeller should also be removed for storage periods to prevent the blades from taking a permanent set.

SEAL REPLACEMENT

If water drips from the weep hole or from the area where the shaft exits the pump, the seal is defective and must be replaced. While the Teflon®* barrier seal provides a first line of defense, prolonged running of the pump with a leaky seal can destroy the ball bearings resulting in catastrophic pump failure and engine shut-down.

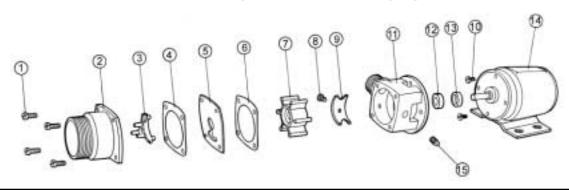
For seal replacement, the pump must be removed from the engine and disassembled in order to gain access to the seal area. Where mechanical seals are used, both components (stationary and rotating member) must be replaced at the same time. Lip seals must be pushed out of their press-fitted position and new seals pressed into place, using a sealant on the outside of the lip seal housing.

Refer to exploded view drawings for seal location and part numbers for ordering purposes.

BRONZE CLOSE COUPLED RUBBER IMPELLER PUMP



EXPLODED VIEW AND PARTS LIST



Pump No.	1	2	3	4 ¹	5	6 ¹	7 ¹	8	9	10	11	12 ¹	13	14 ²	15	16 ³	17 ³	
	Screw	Cover	Wheel	Gasket	Plate	Gasket	Impeller	Cam	Cam	Screw	Body	Lip	Slinger	Motor	Plug	Grommet	Washer	Repair
								Screw				Seal						Kit ¹
	4 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	2 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	4 Reqd	4 Reqd	
209M	6074	7088	7097	7020	7089	6654	6617	7300-41	6592	7424	7185	6647	6651		6052		5656	10829
209101	0074	7000	7097	7020	7089	0004	0017	7300-41	0092	7424	7 100	6647	1 600		0002		0000	10829

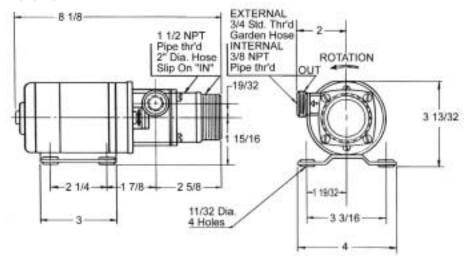
¹ Repair Kit contains items 4, 6, 7 & 12.

PUMP & MOTOR OPTIONS

Note: These are the most frequently used pump and motor combinations. If you have other needs, our sales reps can recommend a pump and motor for your application.

Motor	Part #	Specs
A89	8030	1/10 HP, 2300 RPM, 24 v, Single, TEFC
A92	8108	1/10 HP, 2600 RPM, 12 v, Single, TEFC
A94	8110	1/10 HP, 2600 RPM, 32 v, Single, TEFC

DIMENSIONS



USES

Utility **Trailers Boats** Railroads Buses Motor Homes **Emergency** Campers Mobil Homes Cottages Camp Sites Aircraft Marine Transporation Recreational Vehicles Land & Water Cruisers Commercial & Pleasurecraft

*Teflon® is a registered trademark of DuPont. Teflon® or equivalent PTFE will be used. Specifications are subject to change without notice.

² See motors below.

³ Parts not shown.