PIECE SIZE: IN 1 1/2”
OUT 3/8” AND 3/4” GARDEN HOSE

FEATURES
- All bronze construction - sturdy, corrosion resistant
- Large vent openings separate pump and motor
- Stainless steel motor shaft
- Motor shaft slinger protects motor bearings
- Three conductor motor cord
- Neoprene Impeller compound eliminates seizing and motor overload - Optional Buna Impeller (-05)
- Macerator wheel and impeller easily replaced
- High torque capacitor start 1/3 HP TEFC motor
- For sewage transfer from toilets to holding tanks
- For pump-out and disposal from holding tanks

IMPORTANT - DO NOT RUN DRY
Flexible impellers generate high rubbing friction unless lubricated by liquid being pumped. Lack of liquid will cause impellers to burn up. It is important to avoid dry start-ups. Usually sufficient liquid for a “wet” start is trapped in pump piping system during normal usage. If not, inject water or lubricating oil thru inlet or outlet ports or thru pipe plug openings on pump castings. (Caution - do not remove flush pan=head screw holding pump body cam in position - see exploded view). It is most important to insure a “wet” start when a pump is being used for the first time in a new installation or after a prolonged storage period when all liquid has evaporated. Any plugs removed from pump body or cover must be retightened prior to start up.

MACERATOR WILL . . . .
Handle sewage, waste, toilet paper, cigarettes, cigars, and all maceratable solids of approximately 1 inch size.

MACERATOR WILL NOT . . . .
Handle fruit pits, hard plastic utensils, prophylactics, cloth or sanitary napkins.

PUMP INLET - SUCTION
Pump inlet is 1 1/2” NPT standard pipe thread. All suction connections must be air tight and as short as possible to achieve lift. A suction lift of up to 4 feet is possible under ideal conditions. Because the suction line for sewage handling is of large size (1 1/2” pipe) a large volume of air must be evacuated to create vacuum and suction lift. This is why a “wet” start is essential to prevent overheating and burning of the impeller during the air evacuation and suction period.

PUMP OUTLET - DISCHARGE
Pump outlet is 3/4” garden hose thread external and 3/8” NPT standard pipe thread internal. Use large inside diameter garden hose 3/4” for best results. Avoid restricting connectors and fittings and hoses with same. Keep discharge system as large and as short as possible.

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° 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, or Dowgard.

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. To replace the impeller, remove screws and cover. Remove macerator wheel, plate and gaskets. 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 flat on impeller with flat on 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(R)* 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 motor shut-down. For seal replacement, the pump must be removed from the motor and disassembled in order to gain access to the seal area. 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.

www.oberdorfer-pumps.com
PHONE (800) 448-1668; (315) 437-0361
FAX (315) 463-9561

MODEL
214M

BRONZE MACERATOR
RUBBER IMPELLER PUMP
**EXPLODED VIEW AND PARTS LIST**

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*Repair Kit contains items 3, 5, 6 & 7.*

**DIMENSIONS**

- SUCTION: 1.50~11.50 NPT EXTERNAL
- DISCHARGE: .750~11.50 STD. EXTERNAL GARDEN HOSE THREAD AND .375~18 NPT INTERNAL

Specifications are subject to change without notice. All motor dimensions are subject to variations among motor manufacturers.

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