

# BRONZE MACERATOR RUBBER IMPELLER PUMP

## RUBBER IMPELLER PUMPS SERIES 214M



### FEATURES

- All bronze construction
- Sturdy and 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 Nitrile Impeller (-05)
- Macerator Wheel and Impeller Easily Replaced
- High Torque Capacitor Start 1/3 HP TEFC Motor

### DRIVE

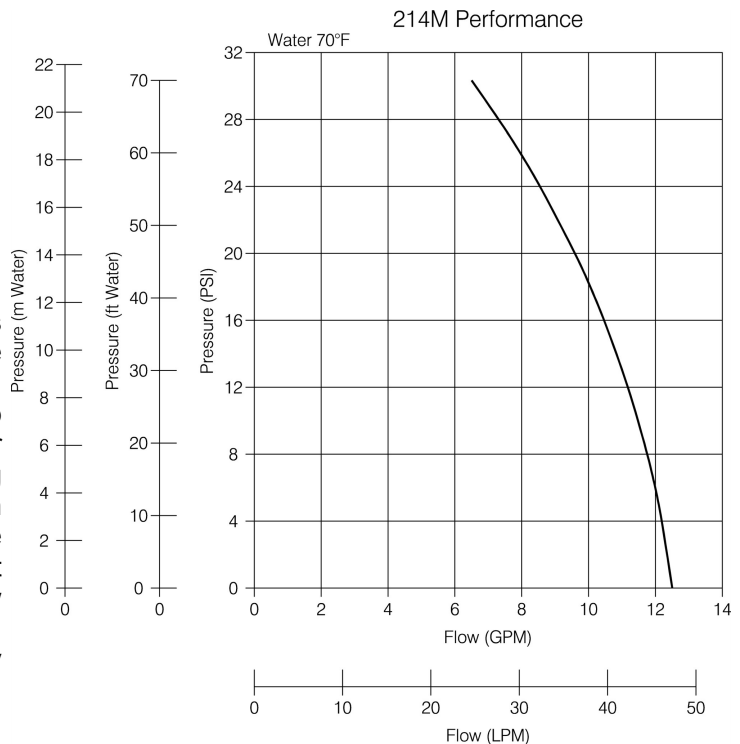
Flexible impellers generate high rubbing friction unless lubricated by liquid being pumped. Lack of liquid will cause impellers to burn up. It is important to avoid dry start-ups. Usually sufficient liquid for a "wet" start is trapped in pump piping system during normal usage. If not, inject water or lubricating oil thru inlet or outlet ports or thru pipe plug openings on pump castings. (Caution - do not remove flush panhead 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 re-tightened prior to start up.

**IMPORTANT - DO NOT RUN DRY**

## 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. Nitrile impellers can handle oil contaminated water and kerosene at reduced impeller service life. Extremes of cold and heat will affect impeller life. Limits of 40o to 180o 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.

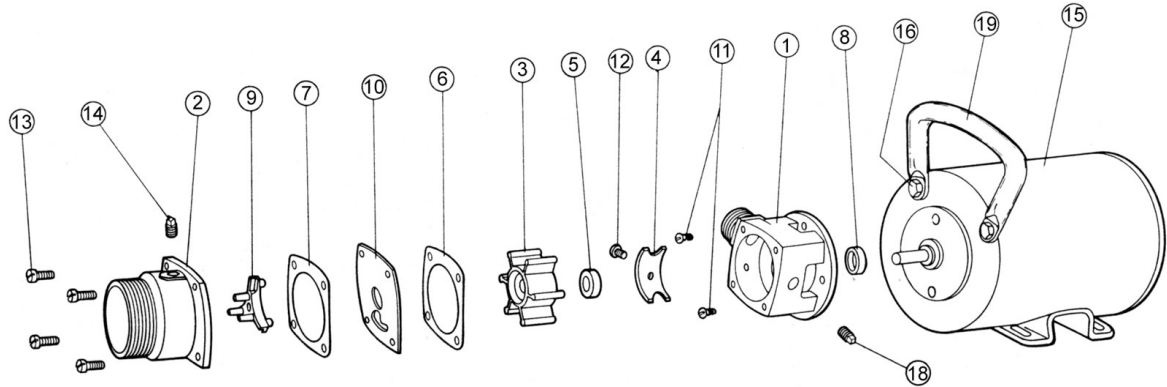
## PERFORMANCE



## SUCTION LIFT

Pump Inlet (suction)- 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.

## EXPLODED VIEW AND PARTS LIST



Pump No.	1	2	3 <sup>1</sup>	4	5 <sup>1</sup>	6 <sup>1</sup>	7 <sup>1</sup>	8	9	10	11	12
	Body	Cover	Impeller	Cam	Lip Seal	Gasket	Gasket	Slinger	Wheel	Plate	Screw	Screw
	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	1 Reqd	2 Reqd	1 Reqd
214M	7454	7446	6593	6592	5007	7547	7020	6757	7442	7089	2371	7300-41
214M-F35	7454	7446	6593	6592	5007	7547	7020	6757	7442	7089	2371	7300-41
214M-05F35	7454	7446	8514	6592	5007	7547	7020	6757	7442	7089	2371	7300-41

<sup>1</sup> Repair Kit contains items 3, 5, 6 & 7.

<sup>2</sup> Items not shown.

13	14	15	16	17 <sup>2</sup>	18	19	20 <sup>2</sup>	21 <sup>2</sup>	22 <sup>2</sup>	23 <sup>2</sup>	Repair Kit <sup>1</sup>
Screw	Plug	Motor	Screw	Cord	Plug	Handle	Washer	Terminal Spade	Wire Nut Orange	Wire Nut Yellow	
4 Reqd	1 Reqd	1 Reqd	2 Reqd	1 Reqd	1 Reqd	1 Reqd	2 Reqd	1 Reqd	2 Reqd	1 Reqd	
6074	7043	---	---	---	6052	---	5656	---	---	---	10938
6074	7043	7429	5411	6761	6052	9897	5656	7297	9850	9857	10938
6074	7043	7429	5411	6761	6052	9897	5656	7297	9850	9857	

# DIMENSIONS

