



# EP04 & EP05 Series

## Model 3871

SUBMERSIBLE EFFLUENT PUMPS

### FEATURES

- EP04 Impeller: Thermoplastic semi-open design with pump out vanes for mechanical seal protection.
- EP05 Impeller: Thermoplastic enclosed design for improved performance.
- Casing and Base: Rugged thermoplastic design provides superior strength and corrosion resistance.
- Motor Housing: Cast iron for efficient heat transfer, strength, and durability.

Motor Cover: Thermoplastic cover with integral handle and float switch attachment points.

Power Cable: Severe duty rated oil and water resistant.

Bearings: Upper and lower heavy duty ball bearing construction.

### AGENCY LISTINGS



Tested to **UL 778** and **CSA 22.2 108** Standards  
By **Canadian Standards Association**  
File #**LR38549**

### APPLICATIONS

Specifically designed for the following uses:

- Effluent systems
- Homes
- Farms
- Heavy duty sump
- Water transfer
- Dewatering

### SPECIFICATIONS

- Solids handling capability: 3/4" maximum.
- Capacities: up to 60 GPM.
- Total heads: up to 31 feet.
- Discharge size: 1 1/2" NPT.
- Mechanical seal: carbon-rotary/ceramic-stationary, BUNA-N elastomers.
- Temperature: 104° F (40° C) continuous, 140° F (60° C) intermittent.
- Class B Insulation
- Fasteners: 300 series stainless steel.
- Capable of running dry without damage to components.

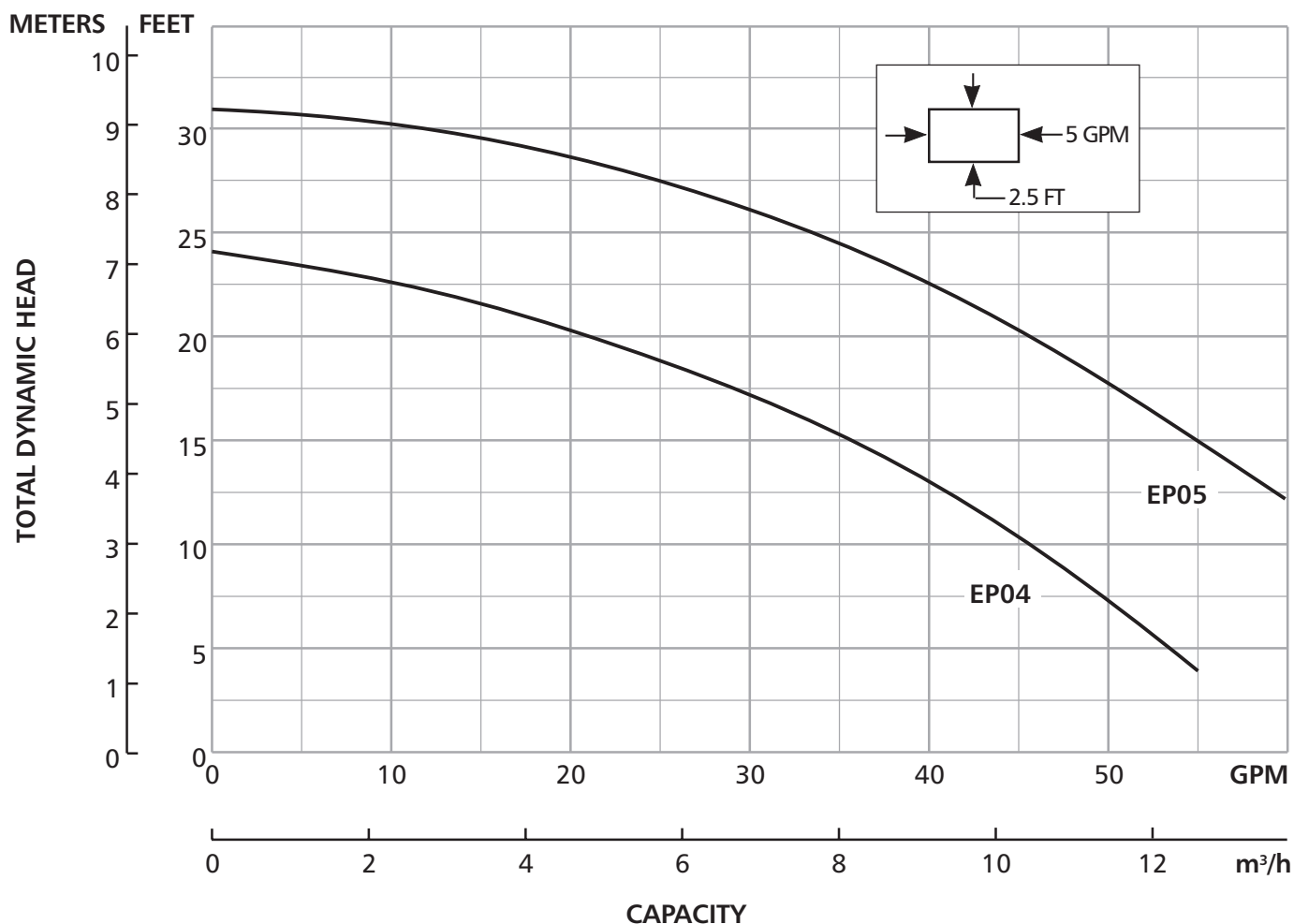
### Motor:

- EP04 Single phase: 0.4 HP, 115 or 230 V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- EP05 Single phase: 0.5 HP, 115 V or 230V, 60 Hz, 1550 RPM, built in overload with automatic reset.
- Power cord: 10 foot standard length, 16/3 SJTW with three prong grounding plug. Optional 20 foot length, 16/3 SJTW with three prong grounding plug (standard on EP05).
- Fully submerged in high grade turbine oil for lubrication and efficient heat transfer.

**Available for automatic and manual operation. Automatic models include Mechanical Float Switch assembled and preset at the factory.**

### PERFORMANCE RATINGS

| Total Head<br>(ft. of water) | Gallons Per Minute |      |
|------------------------------|--------------------|------|
|                              | EP04               | EP05 |
| 5                            | 53                 | -    |
| 10                           | 46                 | 62   |
| 15                           | 36                 | 55   |
| 20                           | 21                 | 46   |
| 25                           | 0                  | 33   |
| 30                           | -                  | 11   |

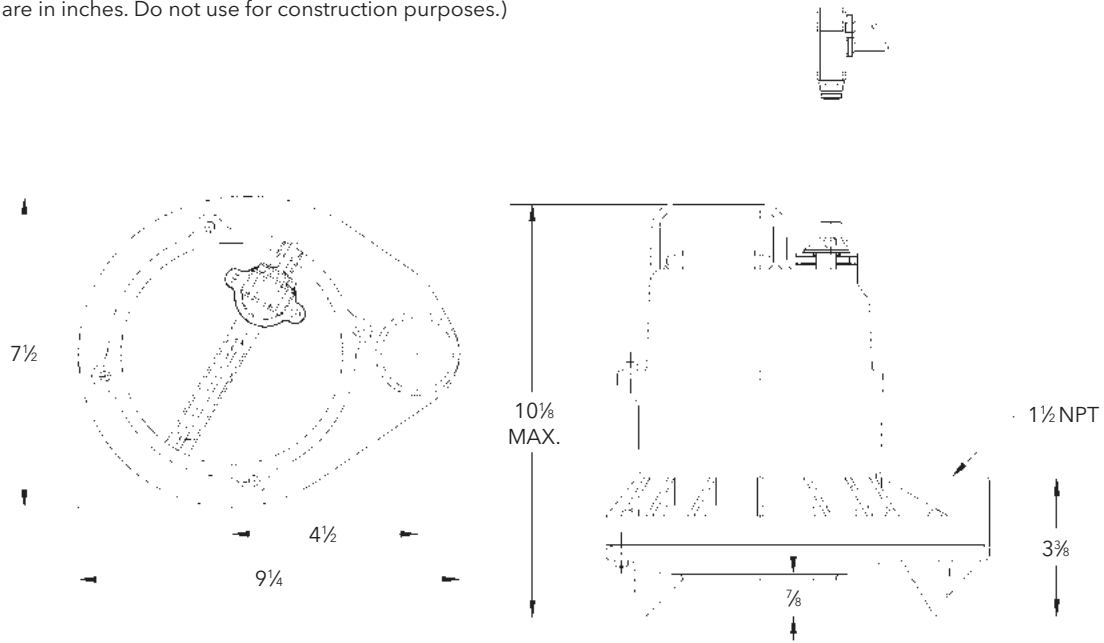


### MODEL INFORMATION

| Order No. | HP  | Volts | Amps | Minimum Circuit Breaker | Phase            | Float Switch Style     | Cord Length | Discharge Connection | Minimum On Level | Minimum Off Level | Minimum Basin Diameter | Maximum Solids Size | Shipping Weight lbs/kg |
|-----------|-----|-------|------|-------------------------|------------------|------------------------|-------------|----------------------|------------------|-------------------|------------------------|---------------------|------------------------|
| EP0411    | .4  | 115   | 12   | 20                      | 1                | Plug / No Switch       | 10'         | 1½"                  | Manual           | Manual            | 15"                    | ¾"                  | 20 / 9.1               |
| EP0411A   |     |       |      |                         |                  | Piggyback / Wide-Angle | 10'         | 1½"                  | 12"              | 6"                | 15"                    |                     | 21 / 9.5               |
| EP0411F   |     |       |      |                         |                  | Plug / No Switch       | 20'         | 1½"                  | Manual           | Manual            | 15"                    |                     | 20 / 9.1               |
| EP0411AC  |     |       |      |                         |                  | Piggyback / Wide-Angle | 20'         | 1½"                  | 12"              | 6"                | 15"                    |                     | 21 / 9.5               |
| EP0412    | 230 | 6     | 10   | Plug / No Switch        |                  | 10'                    | 1½"         | Manual               | Manual           | 15"               | 20 / 9.1               |                     |                        |
| EP0412F   |     |       |      | Plug / No Switch        |                  | 20'                    | 1½"         | Manual               | Manual           | 15"               | 20 / 9.1               |                     |                        |
| EP0511F   | .5  | 115   | 13   | 20                      |                  | Plug / No Switch       | 20'         | 1½"                  | Manual           | Manual            | 15"                    |                     | 22 / 10                |
| EP0511AC  |     |       |      |                         |                  | Piggyback / Wide-Angle | 20'         | 1½"                  | 12"              | 6"                | 15"                    |                     | 23 / 10.4              |
| EP0512F   |     |       |      |                         | Plug / No Switch | 20'                    | 1½"         | Manual               | Manual           | 15"               | 22 / 10                |                     |                        |

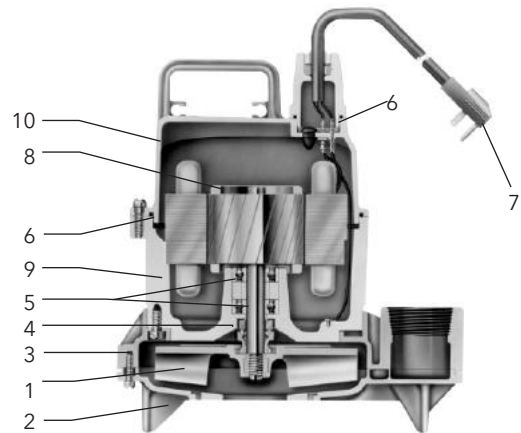
## DIMENSIONS

(All dimensions are in inches. Do not use for construction purposes.)



## COMPONENTS

| Item No. | Description                   |
|----------|-------------------------------|
| 1        | Impeller                      |
| 2        | Base                          |
| 3        | Pump casing                   |
| 4        | Mechanical seal               |
| 5        | Ball bearings                 |
| 6        | O-rings                       |
| 7        | Power cord                    |
| 8        | Oil filled motor              |
| 9        | Motor housing/stator assembly |
| 10       | Motor cover                   |



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