

# EP SERIES (ECONO PUMP) OPERATION AND PARTS MANUAL



## SAFETY PRECAUTIONS

**Always** wear protective clothing, eye protection and follow standard safety procedures when handling corrosive or personally harmful materials.

**Never** use this pump/motor to pump flammable or combustible material or operate it in explosion hazard areas.

Always ensure that the pump and hose materials are compatible with liquid being pumped.

Always ensure that the liquid temperature does not exceed 120°F (50°C).

**Always** ensure the switch is in the OFF position before connecting the motor to the electrical supply.

**Always** use this pump in an upright position; do not allow the motor to become immersed in liquid.

**Never** operate unattended. This pump is a hand-held device.

**Never** allow the pump to run dry. Place in the liquid before starting.

**Always** make sure the pump and discharge hose are properly supported.

**Never** use this pump in pressurized containers.

**Always** flush the pump with water or compatible cleaner after use.

## ASSEMBLY

- Unpack the motor and pump from cartons, and check for shipping damage. If shipping damage is found, save the packaging and notify the carrier immediately.
- Remove the two socket head bolts from the head of the pump tube.
- Place the coupling insert onto the coupling-half of the pump tube.
- Position the electrical motor handle (the ball valve and the muffler on the air motor), so it is opposite the pump's discharge spout. Insert the bottom of the motor into the head of the pump tube and "jiggle" until the coupling is seated.
- Reinsert the two socket head bolts into the pump head and hand tighten (do not over tighten).

**Note:** Screws will not insert unless motor is properly seated and positioned on the pump tube.

- Install a discharge hose onto the spout [3/4" (20 mm) barbed hose fitting], and clamp securely.

## INTENDED DUTY/USER NOTES

The electric motor is intermittent duty (15 minutes on/15 minutes off).

The air motor requires 80 psi @25 cfm and we recommend an in-line filter/lubrication system for prolonged life.

The pump is designed for transfer of liquids within a temperature range of 40°F (5°C) to 120°F (49°C). Maximum liquid specific gravity is 1.2, maximum viscosity is 150 centipoise. Not compatible with liquids containing abrasives or solids.

Materials of construction (wetted) are:

Polypropylene, PVDF, and PTFE with a 316 stainless steel or alloy 625 shaft.

The electric motor has a thermal overload device. If the overload device trips, it must be manually reset by removing electrical power (place switch in OFF position) and allowing the motor to cool to ambient temperature.

Flow performance for electric and air motors is approximately 5 gallons per minute (19 liters per minute). Performance may vary depending upon the characteristics of the liquid.

For faster prime and better flow, lift the pump slightly off the bottom of the container during operation.

The electric motor supply cord cannot be replaced. If the cord is damaged, the motor should be replaced.

## WARRANTY

Finish Thompson, Inc. (manufacturer) warrants this product to be free of defects in materials and workmanship for a period of one year from date of purchase by original purchaser. If a warranted defect, which is determined by manufacturer's inspection, occurs within this period, it will be repaired or replaced at the manufacturer's option, provided (1) the product is submitted with proof of purchase date and (2) transportation charges are prepaid to the manufacturer. Liability under this warranty is expressly limited to repairing or replacing the product or parts thereof and is in lieu of any other warranties, either expressed or implied. This warranty does apply only to normal wear of the product or components. This warranty does not apply to products or parts broken due to, in whole or in part, accident, overload, abuse, chemical attack, tampering, or alteration. The manufacturer accepts no responsibility for product damage or personal injuries sustained when the product is modified in any way. If this warranty does not apply, the purchaser shall bear all cost for labor, material and transportation.

Manufacturer shall not be liable for incidental or consequential damages including, but not limited to process down time, transportation costs, costs associated with replacement or substitution products, labor costs, product installation or removal costs, or loss of profit. In any and all events, manufacturer's liability shall not exceed the purchase price of the product and/or accessories.

Please contact the distributor in your area if you experience a problem with the product. The distributor will then determine if a factory return is necessary and will contact the factory for a return authorization number.

Call our toll free Technical Service Hot Line, 1-800-888-3743, if you have any questions regarding product operation or repair.

## ORDERING SPARE PARTS

Spare parts can be ordered from your local distributor. Always refer to pump model number to avoid error.

See Finish Thompson's full range of drum pumps and centrifugal pumps at [www.finishthompson.com](http://www.finishthompson.com)



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