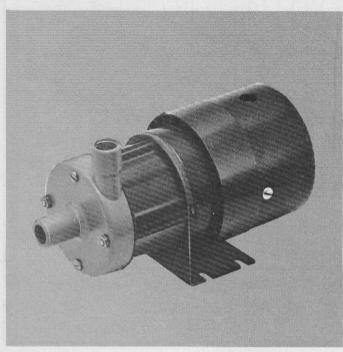
MODEL 17870-0000

JABSCO® PRODUCTS

Centrifugal Series
SEAL-LESS MAGNETIC DRIVE

MODEL: 17870-0000

Product Data



MODEL 17870-0001

DESIGN FEATURES

Pump Material:

Plastic: CPVC and

Ероху

Impeller Design:

Enclosed

Ceramic Magnet:

Chemical Resistant Coating

Suction Port Connection:

3/4" Slip-On Hose

Discharge Port Connection:

3/2" NPT & 3/4" Slip-On Hose

Maximum Temperature:

180° F

Motor:

115 V., A.C., 1/40 H.P. 3000 RPM/60 cycle thermal overload protection, open type enclosure, Class "A" insulation. Three prong

grounded plug.

VARIATIONS AVAILABLE

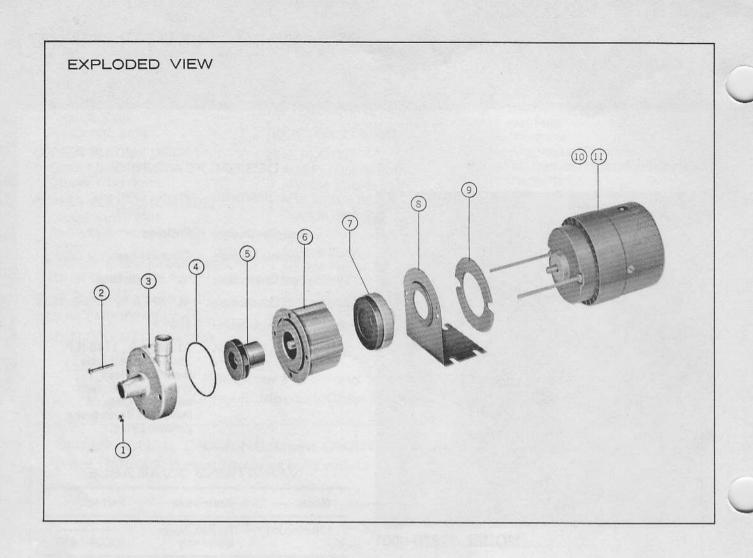
Model	Description	Part No.	
17870-0001	T.E.F.C. Motor Motor only	93004-2430	

APPLICATION AND OPERATING INSTRUCTIONS

Pump designed for transfers, circulation, filtration and drainage. The magnetic drive centrifugal pump does not need any seal. It is a leak proof design. This all plastic pump does not have any metal part in contact with the fluid. Capable of handling photo chemicals, corrosive fluids, plating solutions, lab solutions and many others.

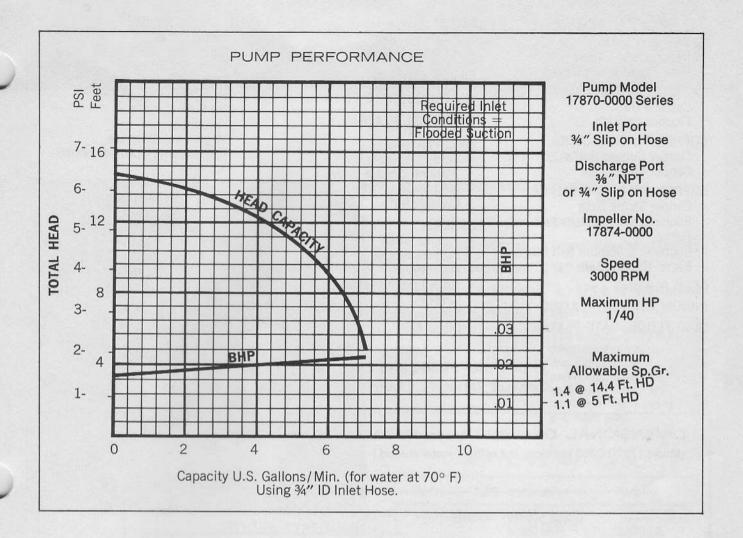
- INSTALLATION Pump is a non self-priming centrifugal design. Flooded suction installation is recommended. Rotation is clockwise (viewed from motor end).
- 2. PRIMING Pump must be primed before starting. Do not run dry. Damage will result.
- 3. CAUTION Use only plastic fittings in discharge port.
- 4. LOCATION Pump inlet should be located below liquid surface. Keep suction and discharge

- line as free of elbows and valves as practical to obtain maximum performance.
- SUCTION AND DISCHARGE LINES — Both should be supported independent of pump. Suction line should be air tight. Discharge lines should be designed with minimum number of fittings and bends to reduce head loss from friction.
- PRIMING—If there is some suction lift, a flap type foot valve can be used to facilitate priming.



PARTS LIST

Key	DESCRIPTION	Qty. Req.	Part No.
1	Nut, Hex	4	94000-0050
2	Screw	2	91014-0050
3	Pump Body	1	17867-0000
4	"O" Ring	1	92000-0990
5	Impeller Assy.	1	17874-0000
6	Magnet Housing	1	17876-0000
7	Drive Magnet Assy.	1	17875-0000
8	Mounting Bracket	1	17864-0000
9	Spacer	1	17868-0000
10	Motor-Open Enclosure	1	93004-2450
11	TEFC Motor	1	93004-2430



SERVICE INSTRUCTIONS

DISASSEMBLY

- 1. Loosen nuts and screws, remove body.
- 2. Remove impeller assembly from seal housing.
- 3. Remove "O" Ring from seal housing.
- 4. Remove seal housing from motor bracket.
- Loosen set screw and remove drive magnet assembly from shaft; only if necessary to replace drive magnet assembly.
- 6. Remove bracket and spacer.

ASSEMBLY

- 1. Install spacer on motor.
- 2. Install mounting bracket on motor bearing boss.
- 3. Install drive magnet assembly on shaft. There should be .030 clearance between magnet drive cup boss and face of motor bearing. Secure drive magnet assembly to shaft with set screw.
- 4. Locate and engage magnet housing on mounting bracket. Locating pins must engage in bracket.
- 5. Install "O" Ring in magnet housing.
- 6. Install impeller assembly in magnet housing bore.
- 7. Install body on magnet housing. Torque nuts to 10 inch pounds. Install and tighten screws.

A FEW OF THE MANY CHEMICALS AND FLUIDS HANDLED:

PLATING SOLUTIONS

BRASS PLATING Regular Brass Bath High Speed Brass Bath

CADMIUM PLATING Cyanide Bath Fluoborate Bath

COPPER PLATING (ACID) Copper Sulfate Baths Copper Fluoborate

COPPER PLATING (CYANIDE)
Copper Strike Bath
Rochelle & Potassium Salt
Baths
Rochelle & Sodium Salt Baths
Barrel Copper Bath

GOLD PLATING
INDIUM CYANIDE PLATING
LEAD FLUOBORATE PLATING

NICKEL PLATING
Nickel Fluoborate Bath
All other Nickel Baths

SILVER PLATING

TIN FLUOBORATE PLATING

TIN NICKEL PLATING

ZINC PLATING
Acid Fluoborate Bath
Alkaline Zincate Bath
Acid Sulfate Bath
Cyanide Bath

OTHERS:

Alcohol Butyl
Alcohol Propyl
Boric Acid
Brine (calcium chloride)
Carbonic acid
Chlorox (Bleach)
Citric Acid

OTHERS (Cont'd):

Ferric Nitrate Ferric Sulfate Ferric Chloride Freon 113-TF

Hydrochloric Acid

Jet Fuel Kerosene

Magnesium Chloride

Magnesium Hydroxide Nitrate

Naphtha Nickel Chloride

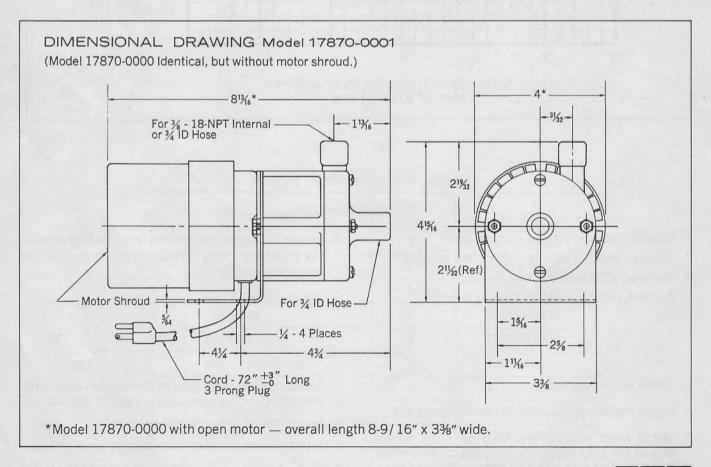
Nitric Acid (5-10%)

Oils (most)

Photographic Developer Potassium Hydroxide Phosphoric Acid Sodium Thiosulfate Sodium Hypochlorite

Water — Salt Water — Fresh Zinc Sulfate

For Other Fluids and Specific Applications Consult Jabsco's Chemical Resistance Table



JABSCO PRODUCTS III

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