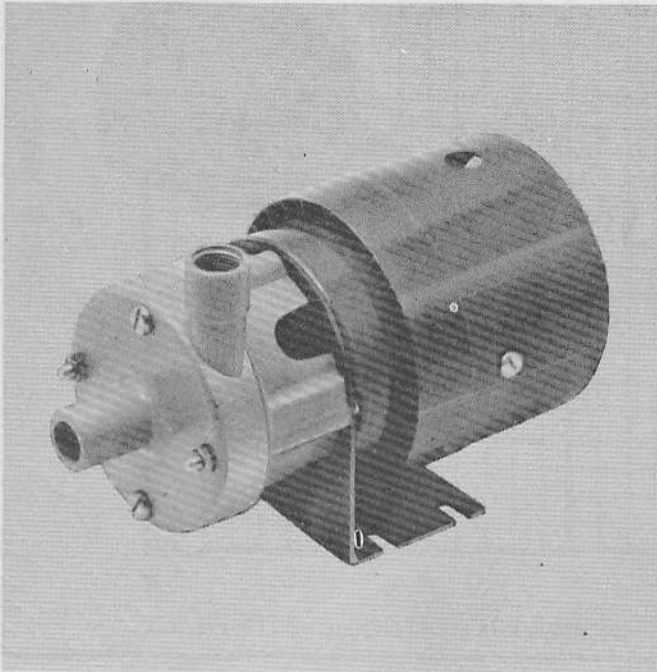


**MODEL: 17860-0000**

*Product Data*



**MODEL 17860-0001**

**DESIGN FEATURES**

- Pump Material: **Plastic - CPVC**
- Impeller Design: **Semi-open**
- Shaft Mechanical Seal: **Viton, Carbon/Ceramic Face**
- Suction Port Connection: **3/4" O.D. for Slip-On hose connection**
- Discharge Port Connection: **3/8" NPT Internal & 3/4" O.D. for Slip-On hose connection**
- Shaft: **316 Stainless Steel**
- 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**

MODEL 17860-0000

**VARIATIONS AVAILABLE**

Model	Description	Part No.
17860-0001	T.E.F.C. Motor Motor only	93004-2420

**APPLICATION AND OPERATING INSTRUCTIONS**

**INDUSTRIAL**—Pump designed for transfers, circulation, filtration, and drainage. Plastic body is corrosion resistant for handling corrosive fluids, photo chemicals and many others.

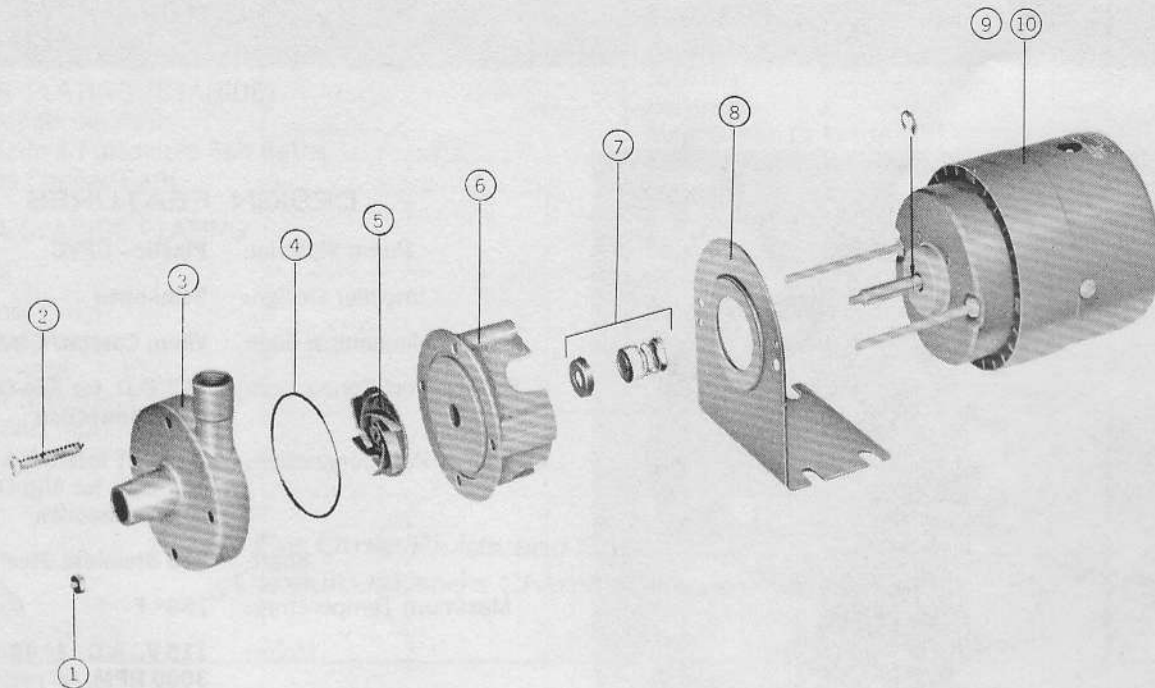
**OEM**—Air conditioning units, laundry equipment, ice makers, vending machines, laboratory equipment, and many others.

1. **INSTALLATION**—Pump is a non self-priming centrifugal design. Flooded suction installation is recommended. Rotation is clock-wise (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.

5. **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.
6. **PRIMING**—If there is some suction lift, a flap type foot valve can be used to facilitate priming.

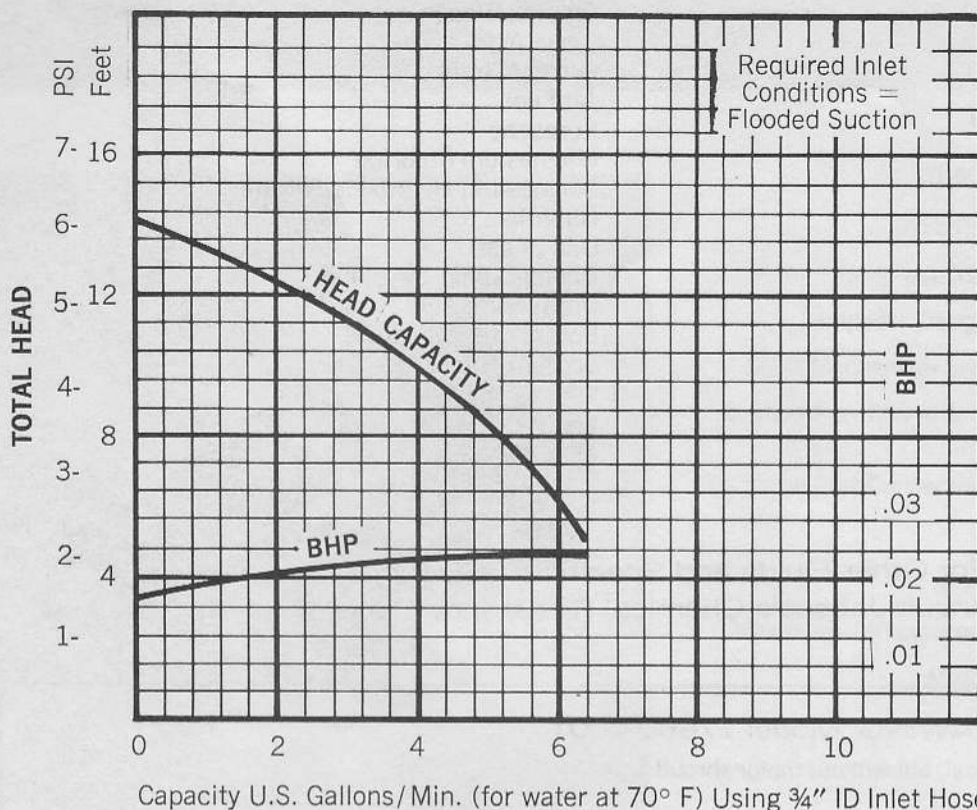
EXPLODED VIEW



PARTS LIST

Key	DESCRIPTION	Qty. Req.	Part No.
1	Nut, Hex	2	94000-0050
2	Screw	2	93950-0060
3	Pump Body	1	17859-0000
4	"O" Ring	1	92000-0990
5	Impeller	1	17865-0000
6	Seal Housing	1	17858-0000
7	Seal, Shaft	1	96080-0370
8	Mounting Bracket	1	17864-0000
9	Motor-Open Enclosure	1	93004-2440
10	Motor totally enclosed fan cooled	1	93004-2420

## PUMP PERFORMANCE



Pump Model  
17860-0000 Series

Port Suction  
3/4" Slip-on Hose

Discharge 3/8" NPT Int.  
& 3/4" O.D. for  
Slip-on Hose  
Connection

Impeller No.  
17865-0000

Speed  
3000 RPM

Maximum HP  
1/40

Max. Allowable Sp. Gr.  
1.4 @ 13.6 Ft. HD  
1.05 @ 5 Ft. HD

## SERVICE INSTRUCTIONS

### DISASSEMBLY

1. Loosen screws and nuts and remove body from seal housing.
2. Unscrew impeller from shaft, holding motor shaft from turning.
3. Remove "O" Ring from seal housing.
4. Remove seal housing from mounting bracket.
5. Remove seal seat from seal housing.
6. Remove seal assembly from shaft.
7. Remove bracket from motor.

### ASSEMBLY

1. Install bracket on motor bearing boss.
2. Coat seal housing seal bore and motor shaft with abrasive-free soap solution. (P-80 or equal)
3. Install seal seat in seal housing with ceramic exposed.
4. Install seal spring and carbon seal on shaft with carbon face outward. Do not push down on shaft.
5. Align seal seat in seal housing with carbon face of seal on shaft. Push housing down, rocking gently to start seal straight on shaft. Push seal housing down firmly engaging locating pins in holes in mounting bracket.
6. Install "O" Ring in seal housing.
7. Screw impeller onto shaft firmly against shaft shoulder.
8. Install body on seal housing and secure with nuts and screws. Nuts should be torqued to 10 inch pounds.

A FEW OF THE MANY CHEMICALS AND FLUIDS HANDLED:

PLATING SOLUTIONS:

BRASS PLATING  
High Speed Brass Bath

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

INDIUM CYANIDE PLATING

OTHERS:  
Alcohol Butyl  
Alcohol Propyl  
Boric Acid  
Brine (calcium chloride)  
Carbonic Acid

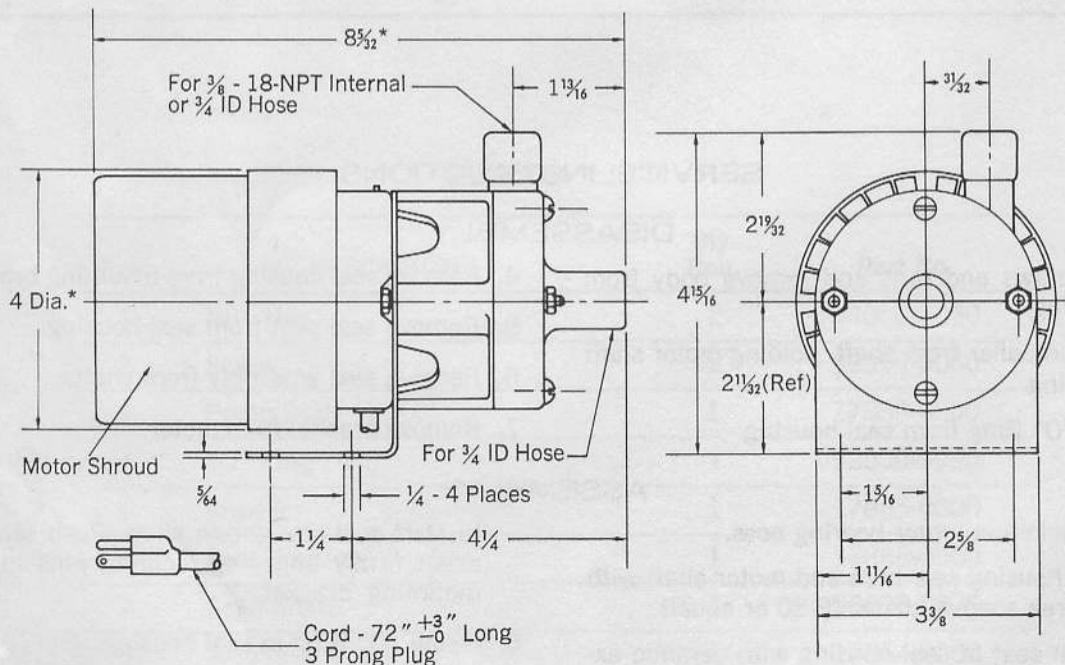
OTHERS (Cont'd)

Chlorox Bleach  
Citric Acid  
Ferric Nitrate  
Jet Fuel  
Kerosene  
Magnesium Chloride  
Magnesium Hydroxide Nitrate  
Naphtha  
Oils (most)  
Photographic Developer  
Phosphoric Acid (to 45%)  
Potassium Hydroxide  
Sodium Thiosulfate  
Water — Salt  
Water — Fresh  
Zinc Sulfate

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

DIMENSIONAL DRAWING Model 17860-0001

Model 17860-0000 Identical, but without motor shroud.)



\*Model 17860-0000 with open motor overall — length 7 7/8" x 3 3/8" wide.

**JABSCO PRODUCTS** **ITT**

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