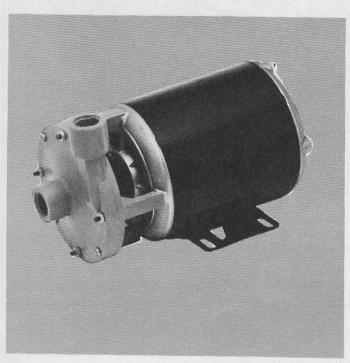
## JABSCO®PUMPS

Centrifugal Series

# MODEL: 17890-0001

Product Data



MODEL 17890-0001

#### DESIGN FEATURES

Pump Material: Plastic - CPVC/Epoxy

Impeller Design: Semi-Open

Shaft Mechanical Seal: Viton, Carbon/Ceramic

Face

Suction Port Connection: 3/4" NPT or

1 1/2" Slip-On Hose

MODEL 17890-0001

Discharge Port Connection: 3/4" NPT or

1 1/2" Slip-on Hose

Shaft: Epoxy Stub Shaft

Maximum Temperature: 180°F (82.2°C)

Motor: 115 V., A.C., 1/3 H.P.,

3450 RPM, 60 Hz, 1 Phase thermal overload

protection, totally

enclosed,non-vent, three

prong grounded plug

Weight: 171/2 lbs. (8 kgs.)

### 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.

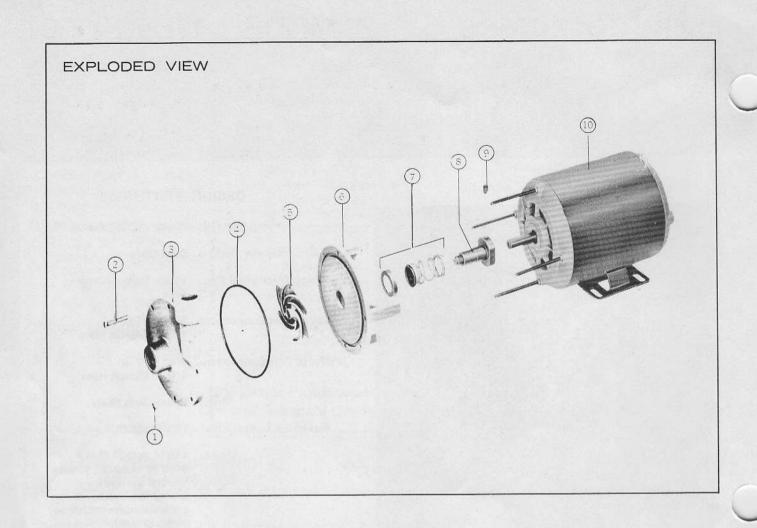
OEM — Air conditioning units, laundry equipment, ice makers, vending machines, laboratory equipment, and many others.

 INSTALLATION — Pump is a non self-priming centrifugal design. Flooded suction installa-

- tion is recommended. Rotation is clockwise (viewed from motor end).
- PRIMING Pump must be primed before starting. Do not run dry. Damage will result.
- CAUTION Use only plastic fittings in discharge ports.
- 4. LOCATION Pump inlet should be located below liquid surface. Keep suction and discharge line as free of elbows and valves

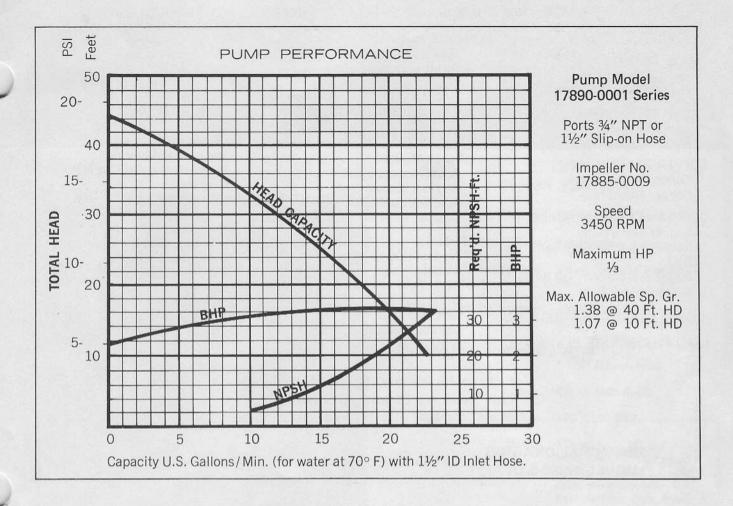
- as practical to obtain maximum performance.
- 5. SUCTION AND DISCHARGE LINES — Both should be supported independent of pump. Suction line should be air tight. Discharge lines should be designed with minimum number of fittings and bends to reduce head loss from friction.
- PRIMING—If there is some suction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

JABSCO PRODUCTS III



### PARTS LIST

| Key | DESCRIPTION  | Qty.<br>Req. | Part No.   |
|-----|--------------|--------------|------------|
| 1   | Nut, Hex     | 4            | 94000-0040 |
| 2   | Screw, Body  | 4            | 93950-0050 |
| 3   | Pump Body    | 1            | 17884-0000 |
| 4   | "O" Ring     | 1            | 92000-1120 |
| 5   | Impeller     | 1            | 17885-0009 |
| 6   | Seal Housing | 1            | 17886-0000 |
| 7   | Seal, Shaft  | 1            | 96080-0360 |
| 8   | Shaft-Stub   | 1            | 17887-0000 |
| 9   | Set Screw    | 2            | 96091-0090 |
| 10  | TENV Motor   | 1            | 93004-2410 |



#### SERVICE INSTRUCTIONS

#### DISASSEMBLY

- Loosen screws and nuts to remove body from seal housing.
- 2. Unscrew impeller from stub shaft, holding flatted shoulder to prevent stub shaft from turning.
- 3. Remove "O" Ring from seal housing.

- 4. Remove seal housing from motor.
- 5. Remove seal seat from seal housing.
- 6. Remove seal assembly from stub shaft.
- 7. Loosen set screws in shoulder of stub shaft and remove stub shaft from motor shaft.

#### **ASSEMBLY**

- 1. Coat seal housing seal bore and stub shaft with abrasive-free soap solution. (P-80 or equal)
- Install ceramic seal seat in seal housing with ceramic face exposed. Seal face should be kept free of oil or soap.
- 3. Slide stub shaft onto motor shaft. Do not tighten set screws.
- Slide seal spring over shaft and position carbon face seal element over stub shaft with carbon face outward. Do not push seal assembly down on stub shaft.
- Locate seal housing to motor so that body discharge port will be vertical. Align carbon face of

- seal and seat. Press housing down in place against motor with a slight rocking motion to slip seal assembly into position over stub shaft.
- 6. Screw impeller onto stub shaft. Seat firmly against shoulder.
- 7. Hold the seal housing firmly against motor and position the impeller so there is ¾" max clearance between the impeller back face and seal housing face. Tighten set screws in stub shaft shoulder securely.
- 8. Install "O" Ring in seal housing.
- 9. Install body on seal housing and secure with screws and nuts.

#### 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

INDIUM CYANIDE PLATING
LEAD FLUOBORATE PLATING

NICKEL PLATING Nickel Fluoborate Bath Ali 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

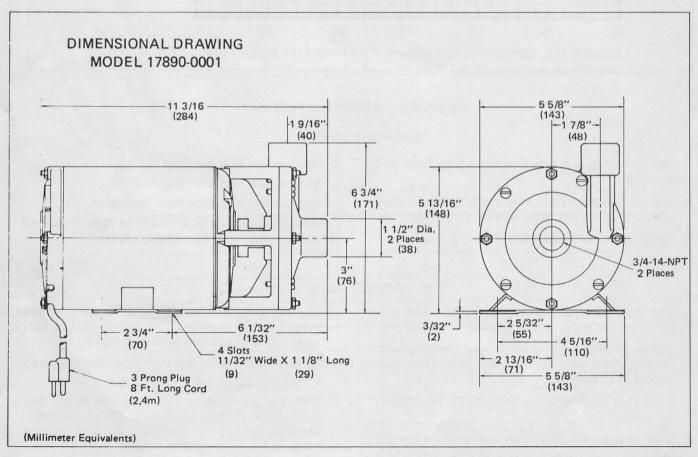
Magnesium Hydroxide Nitrate Naphtha Nickel Chloride

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 ITT

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