17000-0001 Pedestal Mounted

17020-0001 Motor Pump Unit

Body: Epoxy Plastic

Impeller: Neoprene, Nitrile or Viton

Shaft Seal: Mechanical

Ports: %" Pipe Thread Internal
Shaft: Corrosion Resistant Steel with

Epoxy Drive Sleeve where in

Contact with Fluid

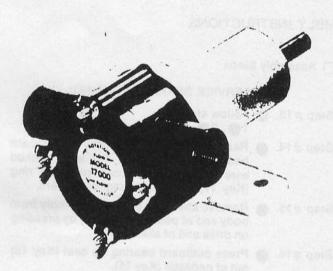
Motor: 115 volt AC, 1/4 H.P., 1725 RPM,

60 cycle, overload protected, capacitor start, totally enclosed. Three-prong grounded plug.

17000-0001 Shipping Weight 3½ lbs. 17020-0001 Shipping Weight 21 lbs. /



Model	Variation
17000-0003	With Nitrile Impeller
17020-0003	
17000-0004	Viton Impeller, Seal and
17020-0004	"O" Ring



MODEL 17000-0001

APPLICATION & OPERATING INSTRUCTIONS

Designed for: "transfers," "circulation," "spill returns," "filtration" and "filling line" use. Easily handles pure solutions, foaming liquids, emulsions, suspended solids, gels and ferments. Because the plastic pump is resistant to corrosion and metallic contamination it is widely used for pumping photo chemicals, plating compounds, lab solutions, pharmaceuticals, cosmetics, weak acids, alkalies, liquid fertilizers, insecticides, dyes, detergents, waxes and many more. THERE IS NO PUMP METAL PART IN CONTACT WITH THE FLUID. See the JABSCO Pump "Chemical Resistance Table" which has been prepared to help you select the most suitable impeller and pump material.

- 1. INSTALLATION—Pump may be mounted in any position. The rotation of the pump shaft determines the location of the pump's intake and discharge ports. Refer to dimensional drawing. Before starting, turn the pump shaft in the direction of the operating rotation.*
- DRIVE Belt or direct with flexible coupling for foot mounted unit. Clearance should be left between drive

- shaft and pump shaft when installing coupling. Always mount pump and align drive shaft before tightening the coupling set screw. Close coupled for motor pump unit.
- SPEEDS—100 RPM to the maximum shown in the performance table. For longer pump life, operate at lowest possible speeds.*
- 4. SELF-PRIMING—Primes at low or high speeds. For vertical dry suction lift of 15 feet, a minimum of 1200 RPM is required.** Pump will produce suction lifts up to 22 feet when wetted. BE SURE SUCTION LINES ARE AIR TIGHT OR PUMP WILL NOT SELF-PRIME. Suction line should be as short as possible.
- RUNNING DRY Unit depends on liquid pumped for lubrication. DO NOT RUN DRY FOR MORE THAN 30 SECONDS. Lack of liquid will burn the impeller and damage the plastic components.
- 6. DISCHARGE LINE When transferring liquids further than 25 feet, discharge line size should be increased to 1/2".

(Cont.)

^{*}Pedestal Mount Pump

^{**}Model 17000-001, 10 feet - Model 17000-0003, 5 feet - Model 17000-0004

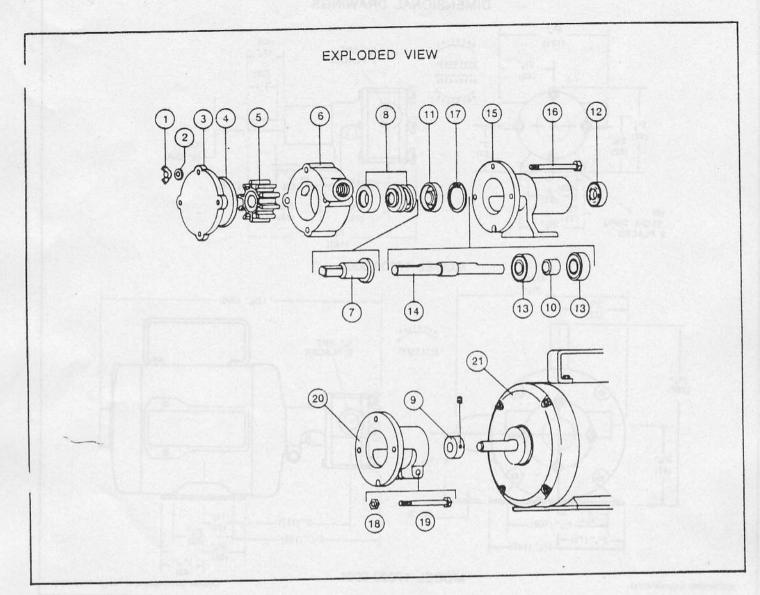
OPERATING INSTRUCTIONS (Cont.)

- 7. CAUTION If corrosive fluids are handled, pump life will be prolonged, if flushed with water after each use or after each work day. Consult JABSCO Chemical Resistance Table. For further information contact factory.
- PRESSURES—For continuous operation, pressure should not exceed 21 psi.;
 - ‡Pressure limit for viton impeller 18 psi.

- 9. TEMPERATURES Neoprene impellers are suitable for service at 45°-180° F, Nitrile 50°-180° F. Viton® 60°-180° F.
- SPARE PARTS A spare impeller, "O" ring and seal should be kept on hand to eliminate extensive downtime.

DISASSEMBLY AND ASSEMBLY INSTRUCTIONS

			Disassembly Steps	Assembly	Steps
			TO REPLACE IMPELLER:	то	SERVICE BEARING HOUSING:
Step	#1.	•	Remove end cover wing nuts, end cover and "O"ring.	Step #13.	Follow steps 1 , 2 , 3 , 8 and 9 .
Step			Remove pump head from bearing housing (Key 15 for 17000 Series) or adaptor (Key 20 for 17020 Series).	Step #14. ●	Remove from pedestal (Key 15) inboard bearing lip seal (Key 11) with hooked wire or screwdriver, and retaining ring (Key 17) using retaining ring pliers.
Step	#3.	•	Grasp the hub of impeller with water pump type pliers with a rotary twist motion, withdraw the impeller from body bore.	Step #15.	Remove shaft and bearing assembly from body end of pedestal (Key 15) by pressing on drive end of shaft.
Step	#4.		Install new impeller in lubricated body bore (Key 6) by grasping the hub and with	Step #16.	Press outboard bearing lip seal (Key 12) out of pedestal (Key 15).
			a rotary motion push it into the body bore.	Step #17.	Remove bearing (Key 13) and spacer (Key 10) from shaft by supporting inboard
Step	#5.		Install pump head on the bearing housing (Key 15) or adaptor (Key 20) — locating drive flats in the impeller insert drive.		bearing and pressing shaft thru bearings. Press on driver end of shaft.
Step	#6.		Intall "O" ring in end cover and secure to pump head with bolts, washers and wing nuts.	Step #18. □	To install inboard bearing support inner race of bearing and press shaft driver end first into bearing until it bottoms firmly against shaft shoulder. Slide bear-
		TC	REPLACE SEAL ASSEMBLY:	9390 A MO	ing spacer (Key 10) over shaft against in- board bearing.
Step #8. R	Follow step 1 , 2 , and 3 . Remove seal seat and grommet from body seal bore (Key 6). Lubricate with water to facilitate seal removal. Insert	Step #19.	To install outboard bearing support inner race of bearing and press shaft driver end first into bearing until it bottoms against bearing spacer (Key 10).		
			screwdriver beneath seal seat and pry out of body seal bore.	Step #20.	Push shaft and bearing assembly, driver end first into bearing housing (Key 15)
Step	#9.	0	Remove drive sleeve (Key 7) from shaft. Remove seal face and seal spring from drive sleeve.		from body end side and secure with retaining ring (Key 17) in housing.
Step	#10.		Install seal spring on drive sleeve (Key 7). Lubricate carbon face seal with water and slide on drive sleeve with carbon	Step #21. □	Install inboard bearing seal (Key 11) in bearing housing (Key 15) with lip facing impeller bore.
Step	#11.		facing away from spring. Install ceramic seal seat in grommet with	Step #22. □	Install outboard bearing seal (Key 12) in bearing housing (Key 15) with lip facing
	ing to		grooved face towards grommet. Lubricate outer surface of seal seat assembly with	Step #23.	driver end of shaft. Follow steps 10 □, 11 □ and 12 □.
		water and push assembly into body seal bore with ceramic seat facing out of bore.	NOTE:		
Step	#12.		Assemble impeller body and end cover as in steps 4 ☐, 5 ☐ and 6 ☐.	on motor sha screw (length	ng series 17020, seal collar (Key 9) installed ft, is to be secured on assembly, with set from face of register shoulder to nearest to be 15/32").



PARTS LIST

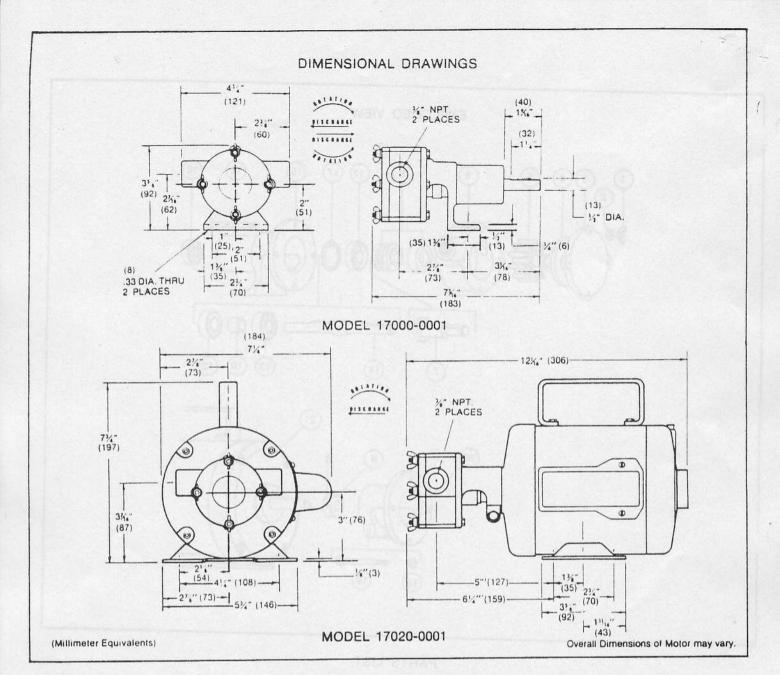
Key	Description	scription Qty. Req. Part Number		Model 17020-0001 Part Number		
1	Wing Nut	4	91107-0010	91107-0010		
2	Washer	2.000	91602-0120	91602-0120		
3	End Cover	1	17005-0000	17005-0000		
4	"O" Ring Neoprene	1	92000-0410	92000-0410		
	Viton		92000-0770	92000-0770		
5	Impeller Neoprene	1	14874-0001	14874-0001		
Ť	Nitrile		14874-0003 14874-0004	14874-0003 14874-0004		
	Viton					
6	Body	1	17004-0000	17004-0000		
7	Drive Sleeve	1	17006-0000	17006-0000		
8*		mmet,	96080-0280	96080-0280		
	Seal Assy Viton Gr Ceramic Seat & Carbo	ommet, on Face	96080-0290	96080-0290		
9		1	-	98022-0700		
10	Spacer .	1	14326-0000			
11	Seal, Lip	1	92700-0980	_		

Key	Description	Qty. Req.	Model 17000-0001 Part Number	Model 17020-0001 Part Number		
12	Seal, Lip	1	92700-0970			
13	Ball Bearing	2	92600-0470	_		
14	Shaft	1	12583-0000			
15	Bearing Housing	1	17003-0000	_		
16	Bolt	4	91094-0210	91094-0210		
17	Retaining Ring	1	91701-1370			
18	Hex Nut	1	-	91085-0050		
19	Bolt	1		91094-0040		
20	Adaptor	1		17024-0000		
21	Motor	1		93004-0480		
	Pump Head Only Model 17020-0001			17028-0001		

*SEAL ASSEMBLIES AVAILABLE AS OPTIONAL PARTS 17221-0040 Seal Assy. - Viton Grommet, Carpenter 20 Seat, and Carbon Face

17221-0050 Seal Assy. - Buna Grommet, Carpenter 20 Seat, and Carbon Face

17241-0000 Seal Seat - Carpenter 20 Stainless Steel



HEAD CAPACITY TABLE

TOTAL HEAD			SPEED 500 RPM			1160 RPM			1750 RPM			
PSI	Kgs/Cm ²	Feet	Meters	GPM	Liters per Minute	H/P	GPM	Liters per Minute	H/P	GPM	Liters per Minute	H/P
4.3	,3	10	3	1.4	5,3	1/6	3.6	13,6	1/6	5.5	20,8	1/4
8.7	,6	20	6,1	1.2	4,5	1/6	3.4	12,9	1/6	5.3	20,1	1/4
13.0	,9	30	9,1	1.0	3,8	1/6	3.2	12,1	1/6	5.0	18,9	1/4
17.3	1,2	40	12,1	.7	2,6	1/6	2.9	11,0	1/6	4.7	17,8	1/4
21.6	1,5	50	15,2				2.4	9,1	1/4	4.2	15,9	1/4

NOTE: Table shows approximate head flow for new pumps in U.S. Gallons per minute, and liters per minute, with Neoprene impeller. Flow will be reduced approximately 10% with use of nitrile or viton impellers.

JABSCO PRODUCTS

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