



Model 18530-0000 — Pedestal Mount Model 18560-0000 — Motor Pump Unit



CENTRIFUGAL PUMP FEATURES

Volute Body:

Ports: Inlet:

Bronze
3/4" NPT

Discharge: 1/2" NPT

Impeller: Bronze
Pedestal: Bronze

Shaft: MPU 316 SS

PED 304 SS

Seal: Carbon/Ceramic Face with Buna-N

Motor: 1/3 HP, 115/1/60,

3450 RPM, Open Drip Proof,

Thermal Overload Protected, No Cord.

Weight: 18530-0000 - 8 lb (3,6 kg)

18560-0000 - 21-1/2 lb (9,8 kg)

△ мото	OR WARNING
M	MOTOR CAN SPARK. EXPLOSION & DEATH CAN OCCUR.
Aunt	DO NOT USE WHERE FLAMMABLE VAPORS ARE PRESENT.

MODEL DESCRIPTION 18530-0000 Pedestal Mount with Buna-N Seal 18560-0000 Motor Pump Unit with Buna-N Seal

DESCRIPTION

The Jabsco bronze centrifugal pumps are designed for continuous duty service. The close coupled, compact motor pump units are equipped with ball bearing motors and stainless steel shafts and have service factors of 1.5 or greater. The pedestal mounted pumps are equipped with two single row ball bearings lubricated for long heavy duty service.

Mechanical rotary seals have carbon/ceramic seal faces with the choice of Buna N or Viton seal parts for application versatility. Unlike the usual Jabsco pump, the Jabsco centrifugal pumps are not self priming. Normal installation is flooded suction, that is, with the pump below the source liquid level so that liquid flows by gravity to the pump. The pump may be located above the liquid source, if a check valve or foot valve is installed at the beginning of the suction line; and, the pump and entire suction line if filled with liquid; and, all air is bled from the suction system. The pump will lift water approximately 15 feet on the suction side when primed and will maintain its prime, as long as the foot or check valve functions as it should, without leaking. If the check valve leaks, the pump will not reprime, and must be manually primed in order to resume operation.

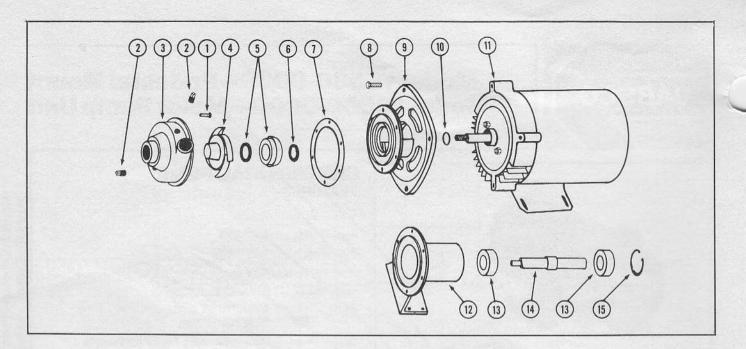
Published performance curves are based on pumping water, at 68°F. Referring to the performance curves for the pedestal mount pump, the maximum horsepower at a given speed is required at open discharge. As the head (pressure) against which the pump operates increases, the horsepower decreases.

Liquids of higher specific gravity (weight) than water require more power to generate the same performance available with water. The horsepower requirement increases directly as the increase in specific gravity. Thus, for a pedestal mount pump we would multiply the horsepower shown for water by the specific gravity of the liquid to be pumped, to determine the horsepower required to do the job.

It is not possible to increase the horsepower of a close coupled motor pump unit, therefore, to pump a liquid of higher specific gravity, with the centrifugal motor pumps, the capacity must be limited by restricting the discharge to stay within the horsepower available. In other words, the discharge must be throttled to the extent that the motor full load amperage rating, found on the motor label, is not exceeded.

In all installations, make sure the suction is not restricted. Do not use an elbow fitting in the pump intake port. Starved suction can result in cavitation which will damage the pump or cause performance deterioration.

Viscous or thick liquids are difficult to pump with a small centrifugal pump. Do not attempt to pump liquids with a viscosity exceeding 1500 SSU (same viscosity as SAE 30 wt. oil at 75°F) with a centrifugal pump. Consider, instead, the Jabsco flexible impeller pump or gear pump.



PARTS LIST

KEY	DESCRIPTION	PART NUMBER	QTY
	Common Pa	orts	
1	Screw	91094-0251	8
2	Plug	92650-0040	2
3	Volute Body	18564-0000	1
4	Impeller	18566-0000	
5	Seal Assemby – Buna	96080-0375	1
	Viton	96080-0378	
6	Slinger	3286-0000	1
7	Gasket	18567-0000	1
	Motor Pump	Unit	
8	Bolt	91094-0070	4
9	Seal Housing	18565-0000	1 1
10	Shim	18578-0000	
11	Motor - 1/3 HP 115/1/60	93004-2608	1
	Pedestal Ur	nit	
12	Pedestal	18534-0000	1
13	Bearing	92600-0460	2
14	Shaft	18579-0000	1
15	Retaining Ring	18719-0000	1

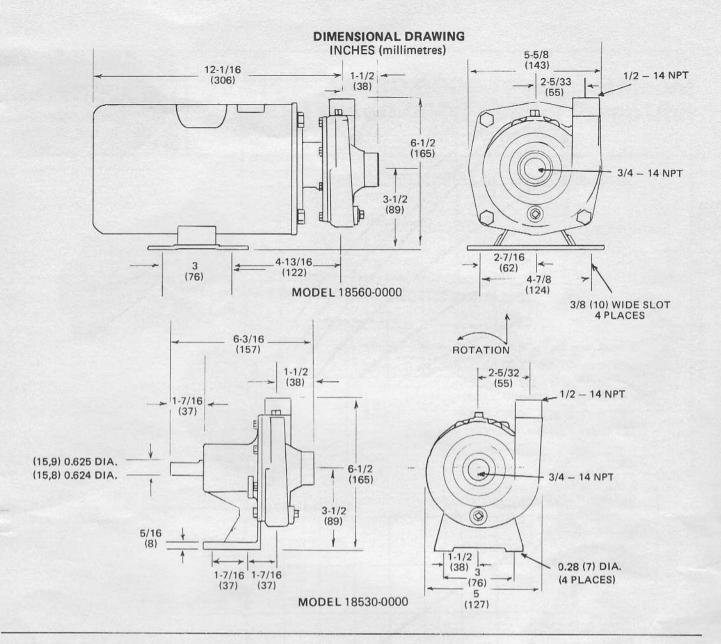
DISASSEMBLY INSTRUCTIONS

DIOMOG	- IAII	SET INSTRUCTIONS				
MPU			Ped	5.	Remove retaining ring from bearing housing.	
Ped	1.	Remove 8 body screws and body.	Ped	6.	Place block of wood on shaft threaded end to	
MPU Ped	2.	Remove body gasket,			protect threads, support pedestal and press shaft and bearing assembly out of pedestal.	
MPU Ped	3.	Prevent shaft from turning. Pedestal Pump —	Ped	7.	Support flange face of pedestal and using a 1-3/8" dia. dowel or plastic pipe, press seal from	
		Grasp shaft with vice grip pliers. MPU - Insert			pedestal.	
		screwdriver in slot in end of motor shaft after removing end cap. Grasp nose of impeller with vice-grip pliers and rotate impeller counterclock- wise to unthread from shaft.	Ped	8.	Place two metal bars between bearings to support bearing while pressing shaft out of bearing. Use a wooden block to protect threads when removing shaft from inner bearing.	
				10		

MPU Ped

4. Use a pointed tool to remove seal seat from rear of impeller.

MPU 9. Remove seal housing from motor. Use a 1-3/8" dia. dowel or plastic pipe to press seal from pedestal.



ASSEMBLY INSTRUCTIONS

Ped

 Support inner race of ball bearing, lubricate shaft with light film of oil, press drive end of shaft through bearing firmly against shoulder. (Care should be taken not to damage threads on shaft when pressing on threaded end.)

Support inner race of second ball bearing and press threaded end of shaft through bearing firmly against shoulder.

Ped

2. Support flange side of bearing pedestal, insert threaded end of shaft/bearing assembly into pedestal. Seat inner bearing firmly against inner bearing shoulder. Install retaining ring into groove in pedestal against outer bearing.

Ped MPU

Install slinger on shaft within 1/4" of bearing or motor.

Ped MPU

4. Apply light coat of sealant on O.D. of seal. With large flange face of pedestal and multi-hole flange of seal housing up, install seal, carbon face outwards, using 1-5/8" O.D. x 1-3/8" I.D. tubing 1" long to press against flange of seal. Seat firmly into seal bore.

Ped MPU

 Install ceramic seat into seat cup with polished surface outwards. Lubricate seat cup with water and press into impeller bore with polished ceramic surface facing out. Do not scratch or mar seat surface.

MPU 6. Attach seal housing to motor with 4 bolts.

MPU Ped

 Apply Loctite*** to shaft threads and install impeller onto shaft until it bottoms firmly against shaft shoulder. Motor pump unit normally requires one shim between impeller and shaft shoulder.

Ped MPU

Install gasket against mounting flange and secure volute body to flange face with 8 screws.

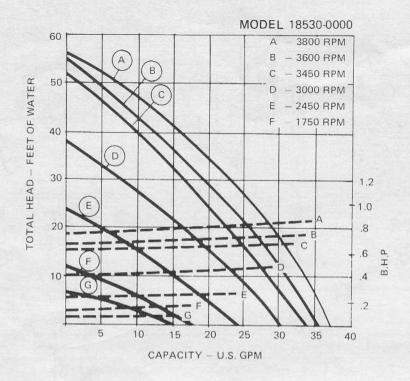
Ped MPU

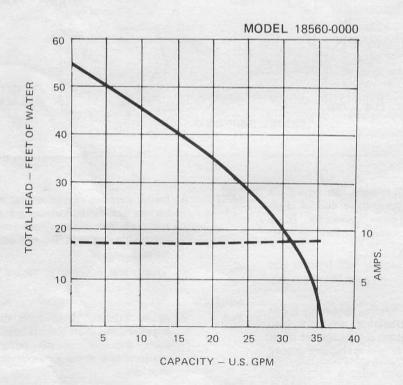
9. Make sure priming plug and drain plug are secure and sealed in volute body.

Ped MPU

Rotate shaft to make sure there is no metal contact between body and impeller.

Locktite PST*** is a trademark of Locktite Corporation.





THE PRODUCTS DESCRIBED HEREIN ARE SUBJECT TO THE JABSCO ONE YEAR LIMITED WARRANTY, WHICH IS AVAILABLE FOR YOUR INSPECTION UPON REQUEST.



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