

TURBO[®]

Model T00416

SEWAGE PUMP

Professional Series

2 YEAR WARRANTY



3/4HP
4200 GPH
Head of
25' (7.5m)

Suction and Discharge:
 2" NPT
 Electric cables:
 9' piggyback type

- Water cooled
- Cast iron and stainless steel construction
- 2" solid handling capabilities
- Grinder impeller made of cast iron
- Heavy duty motor
- Automatic mechanical switch

115V 60Hz
 8A, (16A at start)

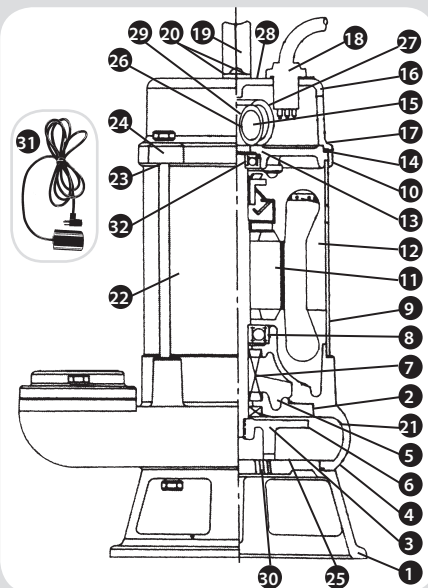
US GPH LPH

5'	4200	15900
10'	3300	12500
15'	2400	9000
20'	1500	5700
25'	600	2275

Friction loss not included

REPAIR PARTS

REF. PART	DESCRIPTION	REF. PART	DESCRIPTION		
1	450331	Strainer	27	450704	Capacitor clamp
2	450332	Oil cover "O" ring	28	310310	Capacitor screw clamp
3	400447G	Impeller			
4	450333	Pump casing	29	450025	Capacitor plate
5	400450	Oil cover	30	450024	Impeller snap ring
6	400449	Oil seal			
7	400448	Mechanical seal	31	450468	Mechanical switch
8	506032	Lower bearing	32	450706	Centrifugal switch
9	450335	Motor casing			
10	450336	Motor housing "O" ring (2)			
11	400453	Rotor shaft			
12	400454	Stator			
13	506032	Upper bearing			
14	450338	Inside cover			
15	400451	Capacitor			
16	450340	Head cover			
17	450341	Inside cover "O" ring			
18	400446	Power cable			
19	300487	Handle			
20	310312	Handle bolts (2)			
21	450702	Screws (4)			
22	450020	Long bolts (4)			
23	450021	Head cover nuts (4)			
24	450022	Head cover snap rings (4)			
25	450023	Impeller nut			
26	450026	Plate capacitor screws(2)			



TURBO

TO THE PROFESSIONAL OR INSTALLER:
Instructions must remain with installation.

GENERAL SEWAGE PUMP INSTALLATION

Please read these instructions carefully. Note before you proceed with the installation of this product that the manufacturer's guideline has to be respected. Failure to comply to instructions and designed operation of this product, may void the warranty.

Your product has been carefully packaged at the factory to prevent damage during shipping. However, occasional damage may occur due to rough handling. Carefully inspect your product for damages that could cause failures. Report any damage to your carrier or your point of purchase.

INITIAL START UP PROCEDURES:

- 1- Inspect the pump and the sewage tank for any obvious condition that may necessitates cleaning, correction, adjustment or repair.
- 2- Assure that the pump is secure and vertical for proper operation.
- 3- Assure that there is adequate clearance from any combustible materials or structure. Stored materials must be kept away from the pump. Shelves or cabinet structures must not be in close proximity over the pump.
- 4- Assure that the motor is securely plugged into a proper 'GFCI' electrical outlet.
- 5- Test the 'GFCI' outlet by pressing its test switch. This should prove that the outlet is energized and will trip off to protect against a ground fault. Be sure to reset the 'GFCI' by pressing its reset switch. (Repeat this step monthly)
- 6- Lift the float to assure that the pump will start when required. (Step 7 below will test submersible pumps with enclosed floats).
- 7- Pour pails of water in the sewage tank to turn the pump on. Assure that any check valve present will permit the sewage to flow.

- 8- Observe that the plumbing can pump the sewage safely out of the residence. (Repeat this step monthly)

SAFETY INSTRUCTIONS:

Before installation and operation, follow these procedures:

- A- Check with your local electrical and plumbing codes to ensure you comply with the regulations. These codes have been designed with your safety in mind. Be sure you comply with them.
- B- A separate circuit must be lead from the home electrical distribution panel properly protected with a fuse or a circuit breaker. We also required that a ground fault circuit be used as well as a 'GFCI' receptacle. Consult a licensed electrician for all wiring.
- C- The ground terminal on the three prong plugs should never be removed. They are supplied and designed for your protection.
- D- Never make adjustments to any electrical appliance or product with the power connected. Do not only unscrew the fuse or trip the breaker, remove the power plug from the receptacle.

IMPORTANT

ELECTRICAL CONNECTION:

For pumping systems using more than one pump, each pump needs to be connected to a separate dedicated circuit protected by a fuse or breaker. This way, the power supply of one pump will not stop operating if the fuse of one of the pumps burns or if the breaker of one of the pumps trips.

IMPORTANT NOTICE:

The following are minimum requirements in order to protect your residence from flooding. It is a small investment but it is your personal responsibility to protect your home, family and valuables. Failure to comply with the following requirements will also void your warranty:

- Two (2) pumps have to be installed in the sewage pit. The first pump as a primary pump and the second pump as the backup unit.
 - An Alarm system model T50454 has to be installed to advise you of any malfunctions.
- Pump selection, proper and adequate installation are a must to comply with local by-laws and need to be adhered to.

INSTALLATION STEPS:

STEP 1

We recommend that you install your pump and basin in a clean location where there is adequate room for servicing at a later date. Protection from freezing temperatures and good ventilation should be considered as well, to provide the pump an environment for long life. Friction losses in the discharge pipe must be taken into consideration when many elbows and fittings are installed in the discharge line. Each elbows and fittings must be considered as 1 feet of head. **Never run the pump dry.** Damage to the seal may occur. **The run of the pipes from the check valve(s) to the existing waste or drain line must never be sloping downward except when connecting to same.** For a new installation, install your sewage basin in the excavation you have provided in the basement floor of your home. Connect the necessary piping from your shower trap, toilet, etc., to the inlet of your sewage basin, with the proper pipe and fittings (see diagram).

STEP 2

Cut a length of 40" to 42" of 2" ABS/DWV pipe. Cement the 2" ABS/DWV male adaptor to 2" slip to one end of this pipe.

STEP 3

With your drill, make a 1/2" hole in the adaptor previously glued. This hole will prevent any air locking which might occur. Note: Check that this might have been done in factory when discharge pipe is supplied.

STEP 4

Lower pump(s) with piping attached into the sewage basin. Make sure that the pump is as

close as possible to the centre of the basin. Adjusting the pump(s) in centre of basin and keep float switch(es) from rubbing on side of basin.

STEP 5

When you are pumping raw sewage, you must have a gas tight cover on the basin and a vent pipe from basin, connecting to home's vent system (see diagram). Feed the 2" riser pipe from pump's discharge, through the 2" opening in the cover. Secure a 3" vent pipe to the vent opening and bring the switch(es) and pump motor power cables through the opening in the cover provided.

STEP 6

Cut a piece of 2" ABS/DV pipe to the desired length to start the discharge line. Run the discharge line as short as possible to the home's waste sewer line.

STEP 7

Connect the 3 prong plug of the switch in a receptacle. Insert the motor 3 prong plug into female receptacle on exposed piggy-back of switch plug. Repeat this operation for the second pump.

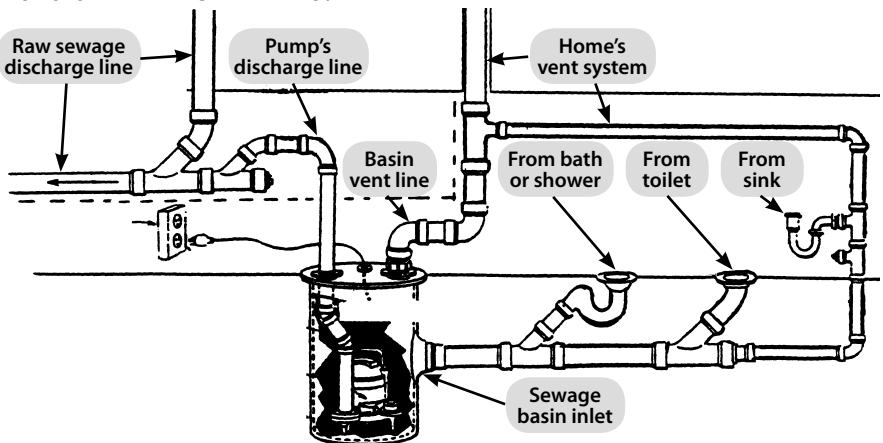
STEP 8

Fill the sewage basin with water to test the operation of the sewage pump(s) and switch(es) operation. Allow the pump to go several "on-off" cycles to assure satisfactory operation.

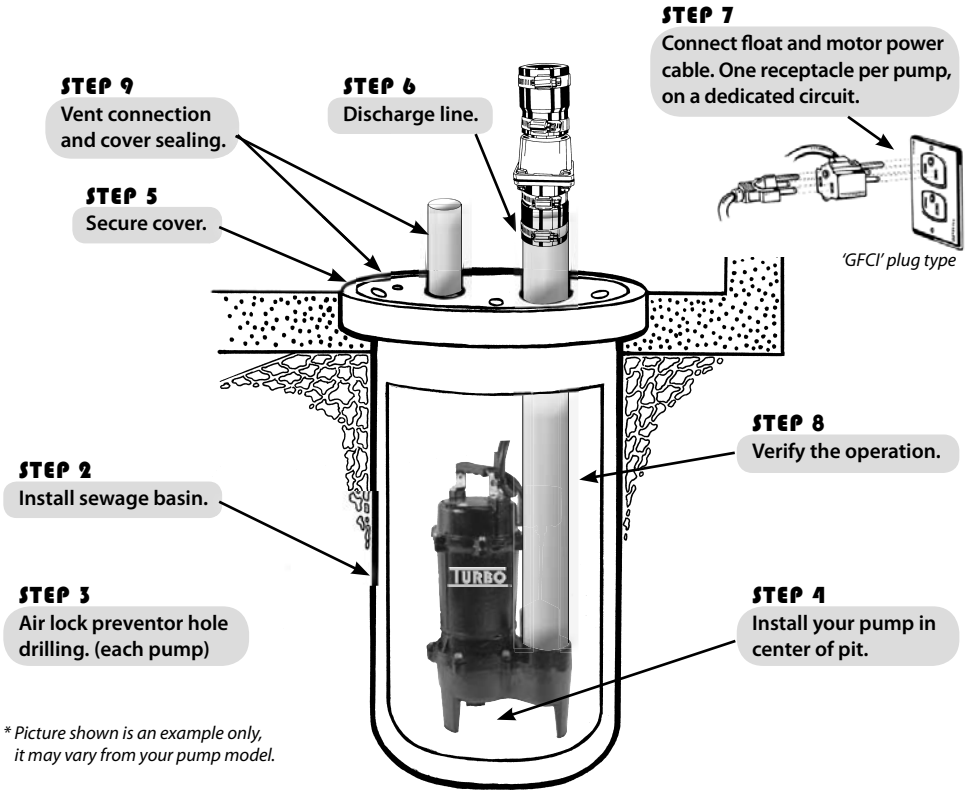
STEP 9

Secure the gas tight cover and the plug for electrical cords with the gaskets and screws provided with the cover. Make vent connection to home's vent system.

SEWAGE SYSTEM TYPICAL PIPING:



SEWAGE PUMP APPLICATION:



NOTICE:

This unit has been designed to pump water only. This unit is not designed for applications involving salt water, brine or any other liquids including petroleum products. Use with salt, brine or any other liquids including petroleum products will void the warranty.

NOTES:

TROUBLE SHOOTING GUIDE CHECK LIST

	PROBABLE CAUSE	ACTION
Motor does not run	Switch is off position Blown fuse Tripped breaker Disconnected plug Corroded plug Float stuck Defective switch Defective motor	Turn switch to on position Replace Reset Re-install Clean Check movement Replace Replace
Motor runs but no water is delivered	Improper voltage Pump may be airlocked Pump discharge head too high Clogged inlet/impeller	Check voltage Check drilled hole in discharge pipe Wrong pump selection (over15') Clean
Pump does not deliver to full capacity	Improper voltage Pump may be airlocked Pump discharge head too high Clogged inlet/impeller	Check voltage Check drilled hole in discharge pipe Wrong pump selection (over15') Clean
Pump does not shut off	Defective switch Missing check valve Clogged check valve in open position Float obstruction	Replace Install valve Clean debris Check for movement

TO THE END CONSUMER:

If you have any problem with the product, before advising the store, where you've purchased the pump, please contact us at 514 337-4415, and ask for our customer service desk. They will be pleased to help you with any questions you might have, concerning your installation.

NOTES:
