

TURBO[®]

Model T90040

SEWAGE PUMP

Professional Series

2 YEAR WARRANTY



1/2HP
(each pump)

Head of
25' (7.5m)

4900 GPH
(One pump running)

9550 GPH
(Two pump running)

Discharge: 2" NPT

Electric cables: 19' piggyback type

- Water cooled
- Cast iron and stainless steel construction
- 2" solid handling capabilities
- Vortex impellers, clog-free type, made of cast iron
- Heavy duty motors
- Automatic adjustable vertical switches

115V 60Hz 7A, (14A at start)

One pump running

US GPH LPH

5'	4900	18550
10'	3900	14765
15'	3000	11350
20'	2200	8325
25'	600	2275

Two pumps running

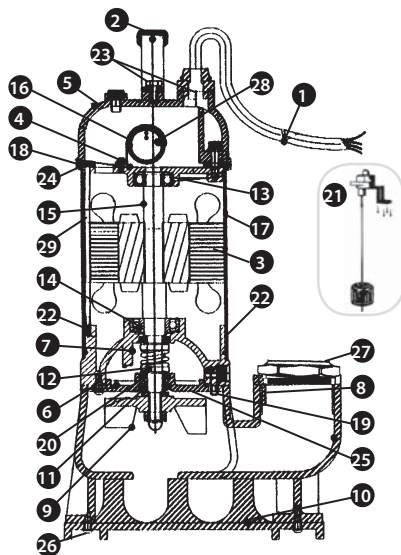
US GPH LPH

5'	9550	36150
10'	7600	28750
15'	5800	21950
20'	4200	15900
25'	1000	3785

Friction loss not included

REPAIR PARTS

REF.	PART	DESCRIPTION
1	400353	Power cable
2	300487	Handle
3	400355	Stator
4	400356	Motor upper plate
5	400357	Motor cover
6	400358	Seal plate
7	400359	Motor base plate
8	400360	Pump casing
9	400361	Impeller
10	400362	Bottom plate
11	400363	Oil seal
12	400364	Mechanical seal
13	350335	Upper bearing
14	506031	Lower bearing
15	400367	Rotor & shaft
16	400368	Capacitor
17	400369	Motor casing
18	400370	Top gasket
19	400371	Seal plate "O" ring
20	400374	Oil seal bushing
21	450447AG	Vertical switch
22	400375	"O" ring motor base (2)
23	450700	Cable & screw of handle (4)
24	450701	Bolts housing & cover (8)
25	450702	Screws (4)
26	450703	Base plate screws (3)
27	300485	Discharge adaptor
28	450704	Capacitor clamp
29	450705	Long bolts (4)



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.

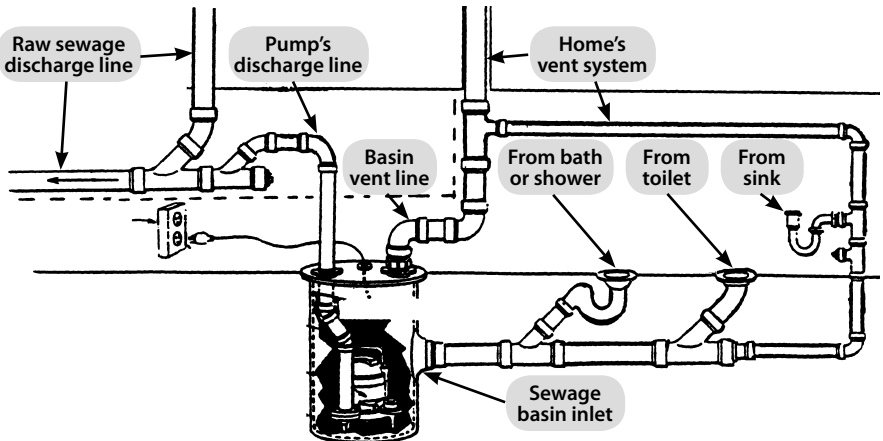
STEP 8

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.

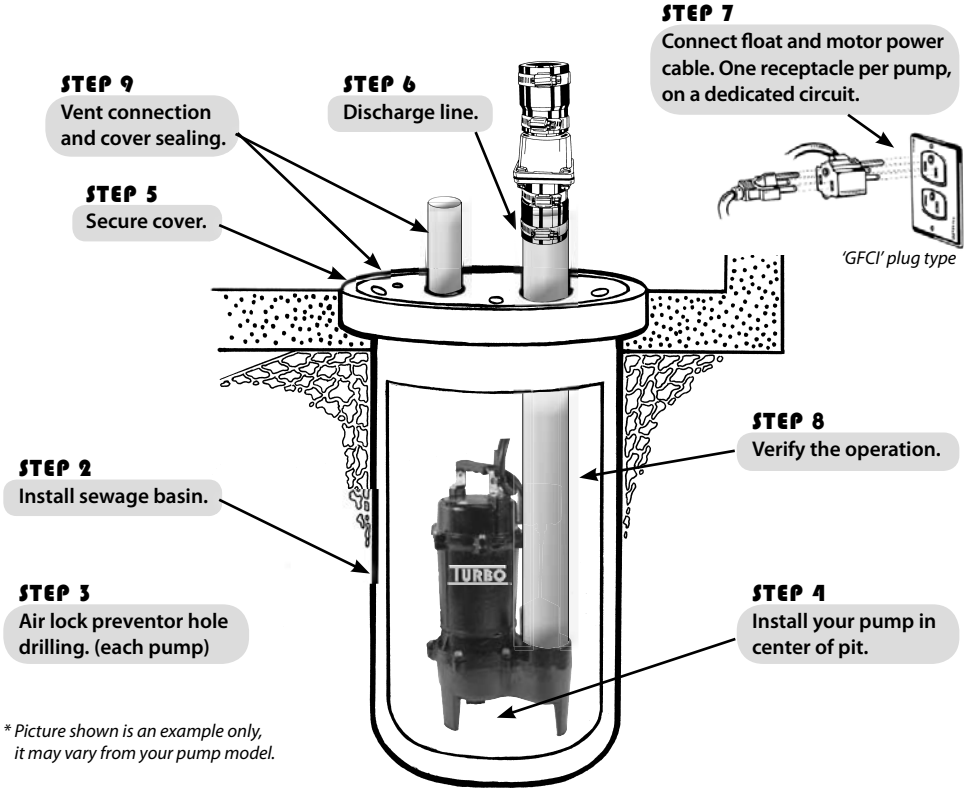
STEP 9

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 have 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:

