

INSTALLATION

⚠️ WARNING Do not work on pump until power is unplugged.

⚠️ WARNING Do not cut off ground pin or use an adapter fitting.

Do not use an extension cord.

The pump power cord should be connected to a separately fused, grounded line with a minimum capacity of 15 amps. It can be connected to non-fuse breaker at the recommended amperes.

1. Before installing or servicing this pump, be certain pump's power source is disconnected.
2. Installation and electrical wiring must adhere to state and local codes and must be completed before priming pump. Check appropriate community agencies, or contact local electrical and pump professionals.
3. Call an electrician when in doubt. Pump should be connected to a separate 15 amp circuit breaker or 15 amp fuse block.

Note that plugging into existing outlets may cause low voltage at motor. This could cause blown fuses, tripping of motor overload or burned out motor.

4. A permanent ground connection from pump to the grounding bar at the service panel is mandatory. These sump pumps come with a grounding conductor and a grounding-type attachment plug. Do not connect pump to a power supply until permanently grounded.

For maximum safety, connect pump to a circuit equipped with a fault interrupter device when positioning the pump's grounding wire.

5. Voltage of power supply must match the voltage of the pump.
6. Before installing pump, clear sump basin of any water, debris or sediment.

⚠️ WARNING Sump basin must be vented in accordance with local plumbing codes. These Sump pumps are not designed for and CANNOT be installed in locations classified as hazardous.

7. The following may cause injury and/or severe damage to pump and will void the warranty.
 - (a) Using an extension cord.

- (b) Cutting off the ground pin or using an adapter fitting.
- (c) Working on pump or switch while plugged in.
- (d) Removing motor housing, unscrewing impeller, or otherwise removing impeller seal.
- (e) Running the pump continuously.
- (f) Pumping chemicals or corrosive liquids.
- (g) Pumping gasoline or other flammable liquids

8. Plastic PVC pipe can be installed in the outlet piping. Drain hose, galvanized steel or copper pipe may be used if desired. All piping must be clean and free of all foreign matter to prevent clogging.
9. Pump will be inadequate if suspension liquids contain solid particles larger than 2”.

ELECTRICAL WIRE CONNECTION

⚠️ WARNING Verify that the voltage and frequency of the pump shown on the nameplate corresponds to those available on the mains. The installer must make sure that the electric system is grounded in accordance with code.

- For outdoor use it is necessary to use cable with a length of at least 8'. The plug and connection should be protected from water splashes. Before using the pump, always inspect it visually (especially power cable and plug)
- Do not use pump if it is damaged
- If the pump is damaged, have it inspected by an authorized service center.
- Make sure that electric connections are protected from flooding. Protect the plug and the power cable from heat or sharp edges.

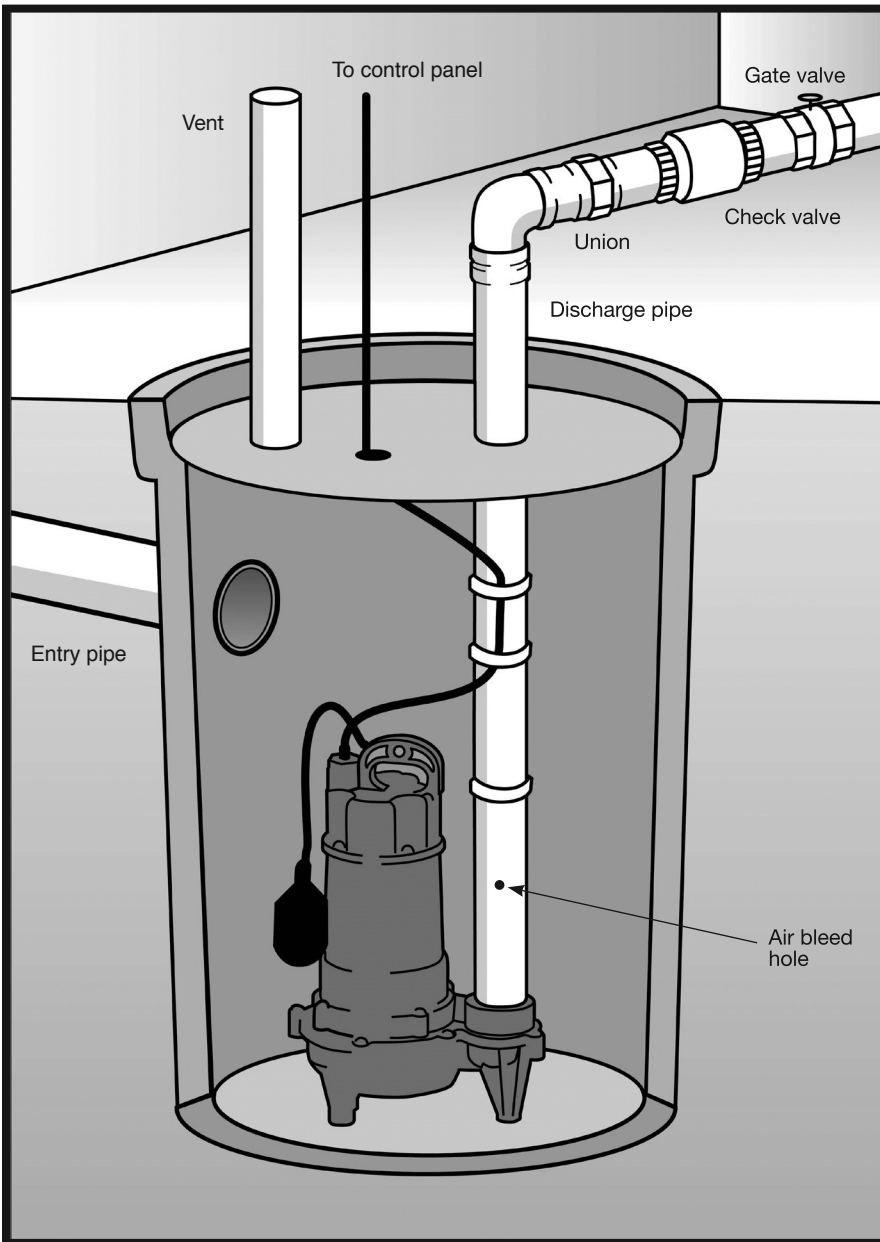
⚠️ WARNING The power cable must be replaced by qualified personnel only. Grounding: The plug of the power cable has a double grounding contact, so that grounding can be performed by simply inserting the plug.

OVERLOAD PROTECTION

This pump series has a built in thermal protection switch. The pump stops if an overload condition occurs. The motor restarts automatically after it has cooled down. If it doesn't start automatically, unplug the pump and plug it back in.

For parts or assistance, call ECO-FLO Customer Service at 1-877 326-3561

INSTALLATION



For automatic operation, pump must be plugged or wired into remote float switch or liquid level controller. Installation instructions included with switches and controllers should be referred to for installation.

Pump will run continuously if plugged directly into an electrical outlet. Care should be taken to prevent pump running in a dry sump.

Pump must be installed in a suitable gas tight basin which is at least 24" in diameter and 36" deep and vented in accordance with local plumbing codes. Pump must be placed on a hard level surface. Never place pump directly on clay, earth or gravel surfaces.

Pump can be installed with ABS, PVC, polyethylene or galvanized steel pipe. Proper adapters are required to connect plastic pipe to pump.

Always install a union in the discharge line, just above the sump pit to allow for easy removal of the pump for cleaning or repair.

A check valve must be used in the discharge line to prevent back flow of liquid into the basin. The check valve should be a free flow valve that will easily pass solids.

CAUTION: For best performance of check valves when handling solids install in a horizontal position or at an angle of not more than 45°. Do not install check valve in a vertical position as solids may settle in valve and prevent opening start-up.

When check valve is used, drill a relief hole 3/16" in diameter in the discharge pipe. This hole should be located below the floor line between the pump discharge and the check valve. Unless such a relief hole is provided, the pump could "air-lock" and will not pump water even though it will run.

A gate valve should follow the check valve to allow periodic cleaning of the check valve or removal of the pump.

The remainder of the discharge line should be as short as possible with a minimum of turns to minimize friction head loss. Do not restrict the discharge to sizes below 2'.

Sewage and effluent applications will require a separate sump vent. A connection is provided on top of the sump or cover which must be piped to the existing building vent or extended outside with its own standpipe.