

# About Your Home WasteWater Disposal System

Congratulations on your Environment One Home WasteWater Disposal System (model 2010-IDU). By following a few guidelines, your 2010-IDU will give you years of dependable service.

## How the System Works

All wastewater in your home flows into the 2010-IDU. Solids are ground into fine particles, then pumped from your home through small-diameter pipes and into the main sewer line. The pump runs infrequently and for short periods of time.

## What is the Diagnostics Center?

The Diagnostics Center displays the 2010-IDU's status. Remove the cover to access the Diagnostics Center.

Continuous green indicates power is supplied to the station.

Blinking green indicates power to the pump is incorrect. Contact an electrician and unplug the unit, or the pump may sustain damage.

The "Run" LED illuminates when the pump is running.

The "High Water Alarm" LED illuminates when the tank capacity reaches 64 gallons. Discontinue water use until the problem is resolved. If the alarm is not due to power loss, contact your local authorized service center. Push the "Silence/PTR" button to silence the alarm.

The "No Power Alarm" LED illuminates when power is cut off. Check the power supply if loss is not due to a power outage. Be conservative with water use until power is restored. Push the "Silence/PTR" button to silence the alarm.

The "Battery/Service" LED illuminates when battery power is low or the 2010-IDU needs servicing.

Blinking yellow indicates that the battery must be replaced; replace with an NiMH or NiCd 8.4-volt rechargeable battery. This battery powers the High Water Alarm and No Power Alarm in the event of a power loss. Replace when indicated.

Solid yellow indicates that the pump is in need of routine service. Contact your local Environment One authorized service center.

## What Happens During a Power Outage?

The "No Power Alarm" will sound; push the "Silence/PTR" button to silence the alarm. Although the 2010-IDU has a 91-gallon-capacity tank, be conservative with water usage until power is restored.

## Should I Worry about Odors?

No. Your 2010-IDU is vented to the outside atmosphere, so you should never smell any odors.

## Is the 2010-IDU Noisy?

The 2010-IDU's noise level is comparable to a washing

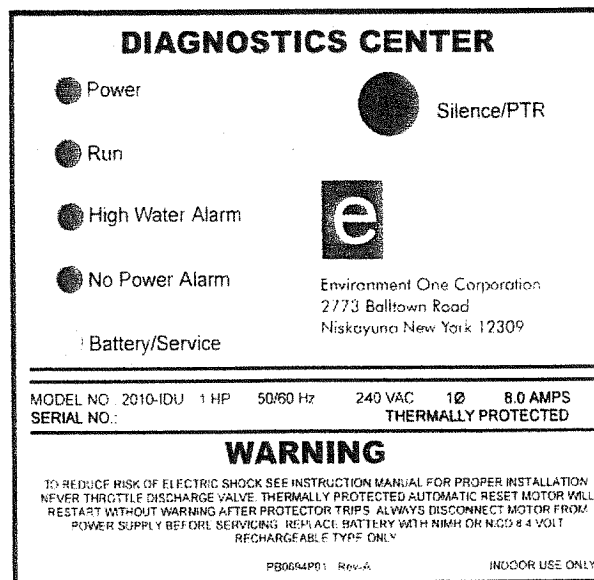
machine.

## Is Routine Service Required?

No. E/One pumps do not require regular maintenance. Should your 2010-IDU malfunction, the alarm will sound. Remove the cover and press the "Silence/PTR" button. Call your local authorized service center. Discontinue water use until the problem is resolved.

## Who do I Call for Service?

Town of Southwick  
Department of Public Works  
Sewer Division  
Normal hours #: 413-569-6772  
Emergency after hours #: 413-569-5348



# User Instructions for the Environment One Grinder Pump



## General Information

In order to provide you with suitable wastewater disposal, your home is served by a low pressure sewer system. The key element in this system is an Environment One grinder pump. The tank collects all solid materials and effluent from the house. The solid materials are then ground to a small size suitable for pumping as a slurry with the effluent water. The grinder pump generates sufficient pressure to pump this slurry from your home to the wastewater treatment receiving line and/or disposal plant.

Congratulations on your Environment One grinder pump investment. With proper care and by following a few guidelines, your grinder pump will give you years of dependable service.

## Care and Use of your Grinder Pump

The Environment One grinder pump is capable of accepting and pumping a wide range of materials. Regulatory agencies advise that the following items should not be introduced into any sewer, either directly or through a kitchen waste disposal unit:

Glass	Diapers, socks, rags or cloth
Metal	Plastic objects (toys, utensils, etc.)
Seafood shells	Sanitary napkins or tampons
Goldfish stone	Kitty litter

In addition, you must **never** introduce into any sewer:

Explosives	Strong chemicals
Flammable material	Gasoline
Lubricating oil and/or grease	

## Periods of Disuse

If your home or building is left unoccupied for longer than a couple of weeks, perform the following procedure:

**Purge the System.** Run clean water into the unit until the pump activates. Immediately turn off the water and allow the grinder pump to run until it shuts off automatically.

**Duplex Units.** Special attention must be taken to ensure that both pumps turn on when clean water is added to the tank.

**Caution: Do not disconnect power to the unit**

## Power Failure

Your grinder pump cannot dispose of wastewater without electrical power. If electrical power service is interrupted, keep water usage to a minimum.

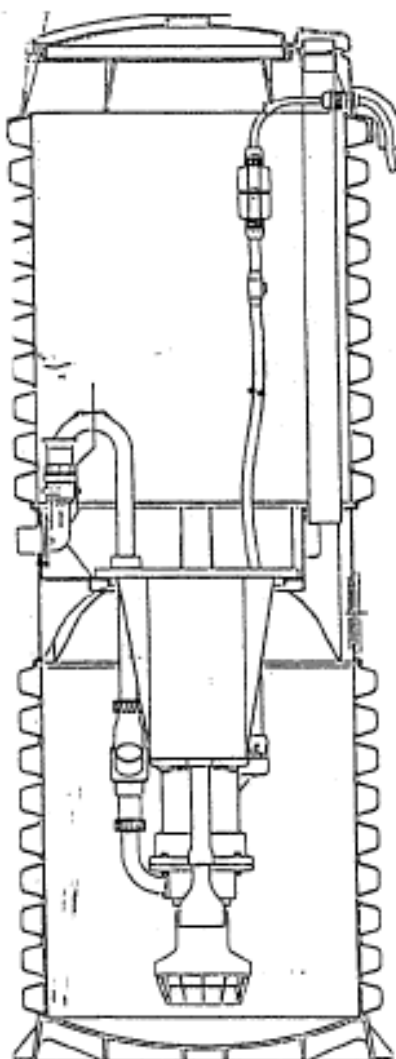
## Pump Failure Alarm

Your Environment One grinder pump has been manufactured to produce an alarm signal (120 volt) in the event of a high water level in the basin. The installer must see that the alarm signal provided is connected to an audible and/or visual alarm in such a manner as to provide adequate warning to the user that service is required. During the interim prior to the arrival of an authorized service technician, water usage must be limited to the reserve capacity of the tank.

**For service, please call your local distributor:**

Town of Southwick  
D.P.W.

# GP2010



## General Applications

The size, efficiency and operating economy of the GP 2010 make it your best choice for single dwellings, waterfront property, subdivision developments and marinas. The GP 2010 is ideally suited for both new and existing communities.

## Features

The GP2010 Grinder Pump is a complete unit that includes: the grinder pump, check valve, HDPE (high density polyethylene) tank and controls. The GP2010 is packaged into a single complete unit, ready for installation.

All solids are ground into fine particles, allowing them to pass easily through the pump, check valve, and small diameter pipe lines. Even objects that are not normally found in sewage, such as plastic, rubber, fiber, wood, etc. are ground into fine particles.

The 1-1/4" inch discharge connection is adaptable to any piping materials, thereby allowing us to meet your local code requirements.

The tank is made of tough corrosion resistant HDPE. The optimum tank capacity of 70 gallons is based upon computer studies of water usage patterns. A single GP 2010 can accommodate the sewage flow from two single family homes or 700 gallons per day.

The internal check valve assembly, located in the Grinder Pump, is custom designed for non-clog, trouble-free operation.

The Grinder Pump is automatically activated. It runs infrequently for very short periods. The annual energy consumption is typically that of a 40 watt light bulb.

Units are available for indoor and outdoor installations. Outdoor units are designed to accommodate a wide range of depths.

## Operational Information

### Motor

1 HP, 1,725 RPM, high torque, capacitor start, thermally protected, 120/240 V / 60 Hz, one phase

### Inlet Connections

4" inlet grommet standard for DWV pipe. Other inlet configurations available from the factory.

### Discharge Connections

Pump discharge terminates in 1-1/4" NPT female thread. Can easily be adapted to 1-1/4" PVC pipe or any other material required by local codes.

### Discharge\*

15 gpm at 0 psig  
11 gpm at 40 psig  
9 gpm at 60 psig

### Overload Capacity

The maximum pressure that the pump can generate is limited by the motor characteristics. The motor generates a pressure well below the rating of the piping and appurtenances. The automatic reset feature does not require manual operation following overload.

Patent Numbers: 5,752,315 5,562,254  
5,439,100

\* Discharge data includes loss through check valve, which is minimal.

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◆ If the tank has an accessway (Fig. 1a):

Excavate a hole to a depth, so that the removable cover extends above the finished grade line. The grade should slope away from the unit. The diameter of the hole must be large enough to allow for a concrete anchor. Place the unit on a bed of gravel, naturally rounded aggregate, clean and free flowing, with particles not less than 1/8" or more than 3/4" in

diameter. The concrete anchor is not optional. The amount of concrete required varies for each respective unit. (See Chart 1 on page 8 for specific requirements for your unit)

The unit should be leveled and the wet well filled with water to the bottom of the inlet to help prevent the unit from shifting while the concrete is being poured. The concrete must be vibrated to ensure there are no voids.

If it is necessary to pour the concrete to a higher level than the inlet, the inlet must be sleeved with an 8" tube before pouring.

If your unit is a model taller than 93" it may be shipped in two sections, requiring field assembly. See Field Joint Assembly Instructions on page 6 for additional information.

### 3. INLET PIPE INSTALLATION

Mark the inlet Pipe 3 1/2" from the end to be inserted. Inlet pipe should be chamfered and lubricated with a soap solution. Lubricate the inlet grommet with soap solution, as well. Insert the pipe into the grommet up to the 3 1/2" mark. Inspect to ensure the grommet has remained intact and in place.

### 4. DISCHARGE:

The use of 1-1/4" PVC pressure pipe Schedule 40 and polyethylene pipe SDR 11 or SDR 7 are recommended. If polyethylene is chosen use compression type fittings to provide a smooth inner passage. It is recommended that a Redundant Check Valve Assembly (E-One part no. PBC104 GXX) be installed between the pump discharge and the street main on all installations. Never use a ball type valve as a check valve. We recommend the valve be installed as close to the public right-of-way as possible. Check local codes for applicable requirements.

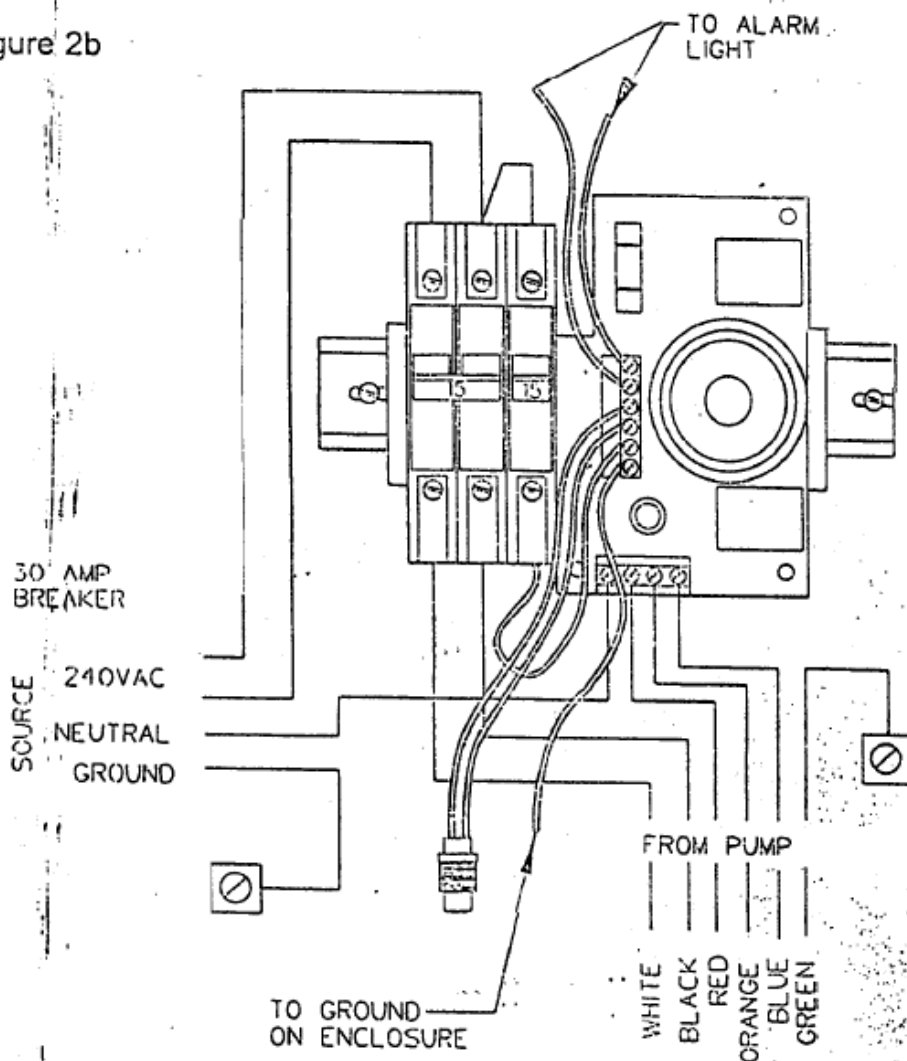
#### **CAUTION:**

*Redundant check valves on station laterals and anti-siphon check valve assemblies on grinder pump cores should not be used as system isolation valves during the tests.*

◆ If the tank has no accessway (Indoor Installation)

The discharge connection is a 1-1/4" male NPT. The discharge piping must incorporate a shut-off valve and a union with a minimum pressure rating of 160 PSI or a suitable piping disconnect to allow for removal of the pump core. The valve should be of the type that

Figure 2b



## 240 VOLT WIRING

Figure 1a

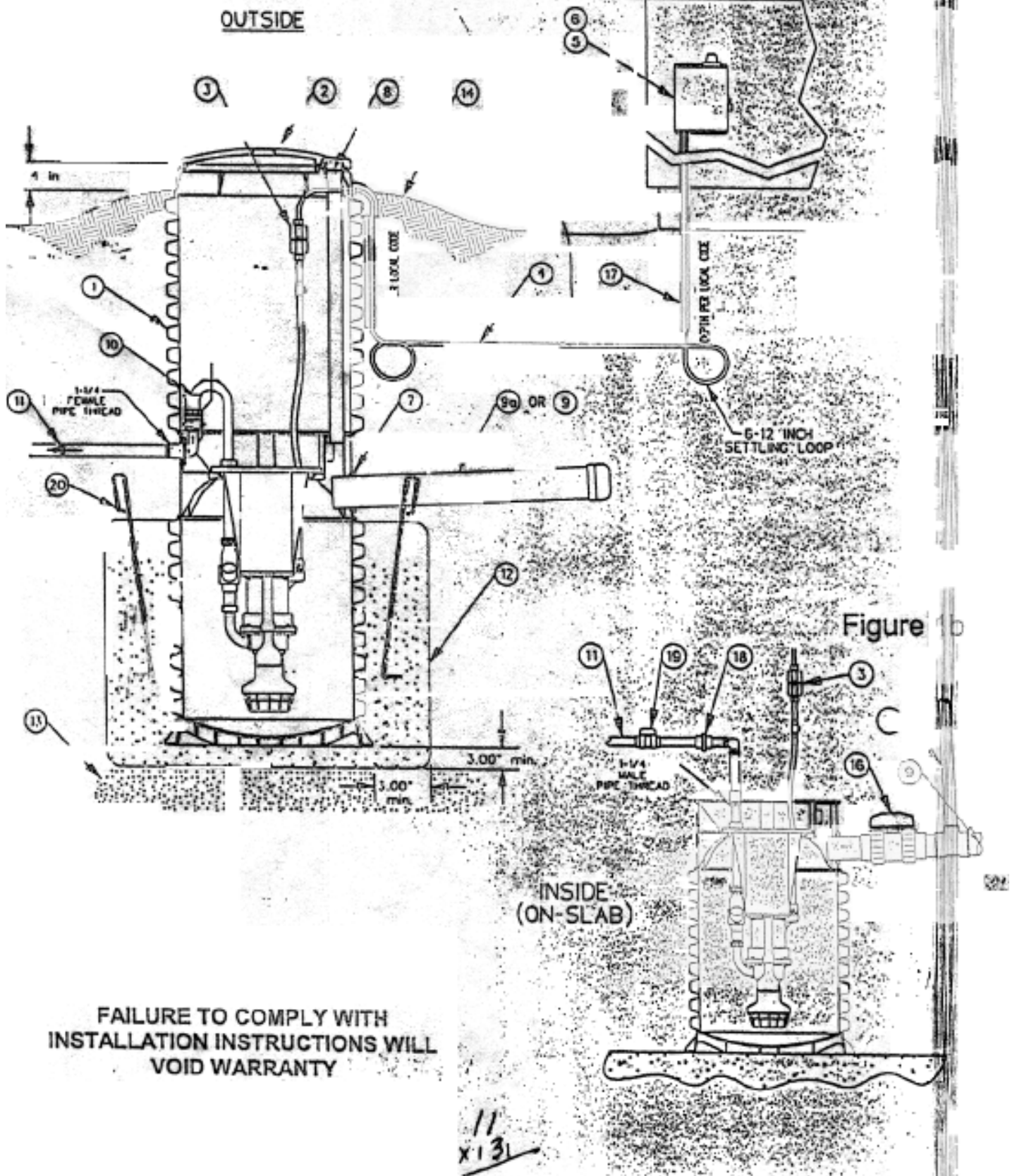
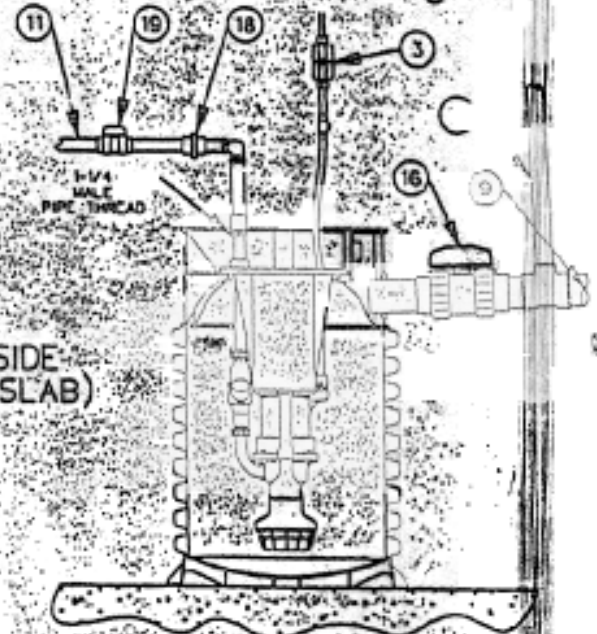


Figure 1b



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