



Towns of Cuba & Ischua Sewer District 5 Pump Installation – User Information

For Service Call (716) 790-1369



Page:

2. **“User Instructions for the Environment One Grinder Pump”**; includes emergency contact. Rev. Nov 10, 2010
3. Control Box pictures showing the locations of the **alarm light** and the **buzzer shut-off or acknowledgement button**.
4. **Pump cut-away** view showing the vent area and the how to identify the location of the vent. The vent must remain free from any blockage.
5. **E/One pump cross section drawing** with some key dimensions including:
 - a. Vent – the vent must remain free from blockage.
 - b. Pump on/off levels – Under normal operation the pump will run approximately 50 seconds from the time it turns on to the time it turns off. During that time it will pump approximately 8 gallons of liquid.
 - c. Alarm level – The alarm level is 8 inches above the pump “ON” switch level or about 15 Gals. If the liquid goes to the Alarm level it would take a little over 2 minutes of pump running time to empty the tank to the pump “OFF” level.
 - d. Max liquid capacity level – is considered to be to the bottom of the inlet pipe. If the alarm sounds and/or the light flashes there is only about 14 Gals of capacity or about 8 or 9 toilet flushes. If the Alarm light is on, use of water in the house should cease until the pump is serviced.

Special notes –

1. In a power outage, the pump and the alarms will not function. It is recommended that water not be discharged to the system during a power outage unless there is auxiliary power generation available to the pump.
2. The user should be aware of the level difference of the lowest drain in the house compared to the top of the pump lid. If the pump fails to operate and if water continues to be drained to the system and exceeds the max levels of the tank reservoir, and, if the in-house drain is higher than the top of the lid, liquid could be forced out of the pump vent. If, in the same circumstance, the in-house drain is lower than the vent in the pump lid, the liquid could be forced back up into the in-house device. Such a situation is highly unlikely to occur but one should be aware to be especially careful to avoid waste levels in excess of pump alarm level.

User Instructions for the Environment One Grinder Pump

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.

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.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: 1) this device may not cause harmful interference; and 2) this device must accept any interference received, including interference that may cause undesired operation. Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate this equipment.

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

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

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

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.

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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

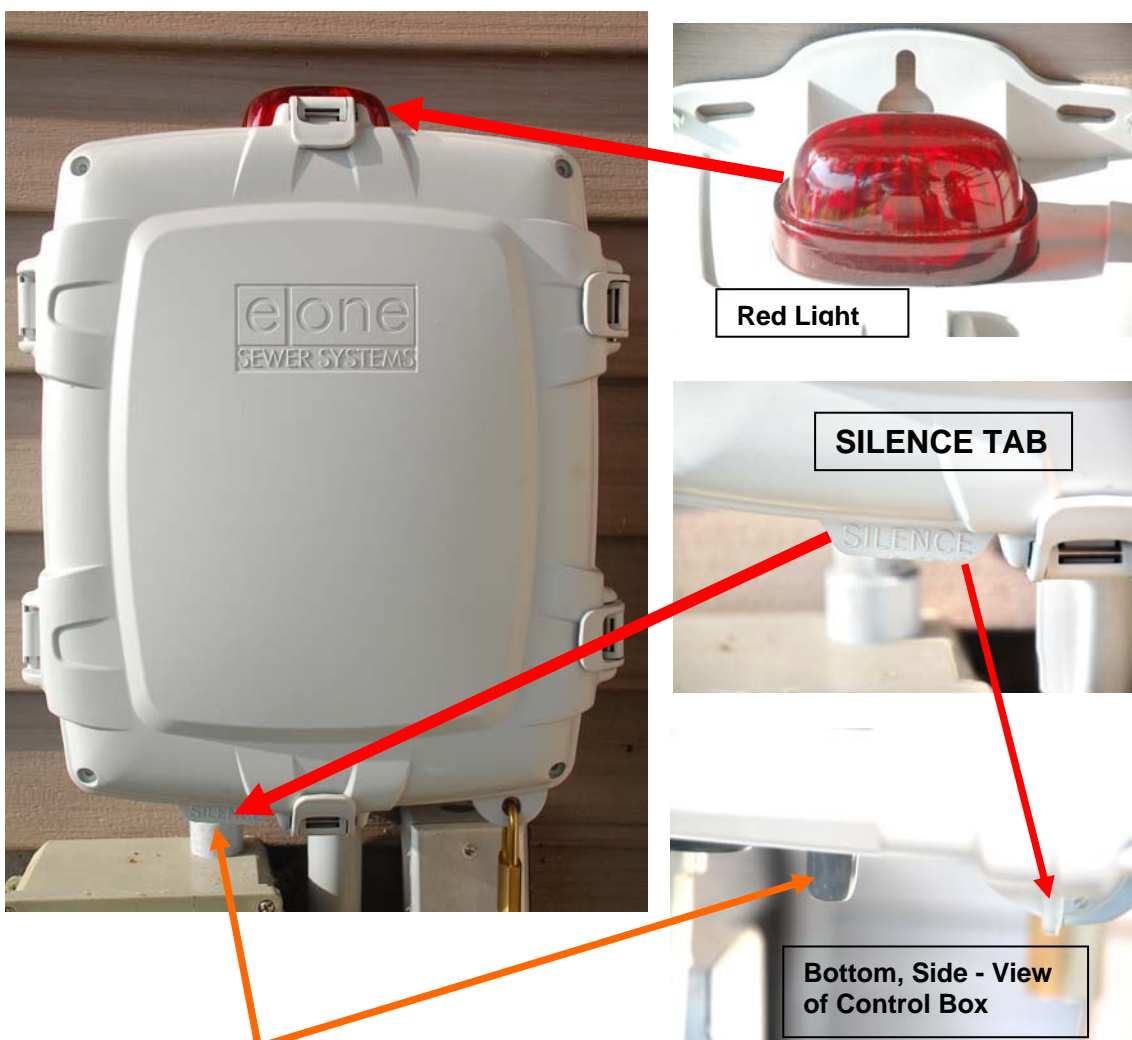
Your Environment One grinder pump has been manufactured to produce an alarm signal (120 volt) in the event of a high water level in the basin. The installer must see that the alarm signal provided is connected to an audible and/or visual alarm in such a manner as to provide adequate warning to the user 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.

Sewer Pump – What you need to know about the controls!

The pump control includes an Alarm system that lights a flashing red light and sounds a buzzer when the liquid level in the reservoir rises 8 inches (about 14.5 gallons or about 8 to 9 toilet flushes) above the pump “ON” switch setting. The alarm is activated if the pump does not come on; or, if the pump has insufficient capacity to remove the liquid volume entering the tank from the house (a remote chance since the pump has a capacity of about 9.5 gallons per minute when pumping against the system design pressure of 60 psi); or, in the case of loss of electrical power (e.g. power outage) combined with continued liquid drain from the house or building.

At the instant the alarm goes off – **Flashing RED LIGHT comes on and BUZZER sounds** – there is approximately 15 gallons of capacity left in the tank (approx 8 flushes of a toilet, but don't use the dishwasher or the laundry). Therefore, **use of water in the house should be absolutely minimized** until such time as a service person has corrected the situation and the Alarm light has automatically turned off by lowering of the liquid in the tank.

Notes – The BUZZER can be turned off by pushing the button found under the control box behind the tab “SILENCE”. See the pictures below.
The Flashing RED LIGHT turns off when the liquid level in the tank is returned to a safe level.



Black Button – push to silence the BUZZER alarm.
Button is found on the bottom of the enclosure, behind the “SILENCE” tab.

Sewer Pump – What you need to know about the vent!

The vent on the top of the Lid extending from the lower tank area must be kept open to atmosphere at all times for proper operation of the pump. It must be protected from blockage and from dirt or water entry.

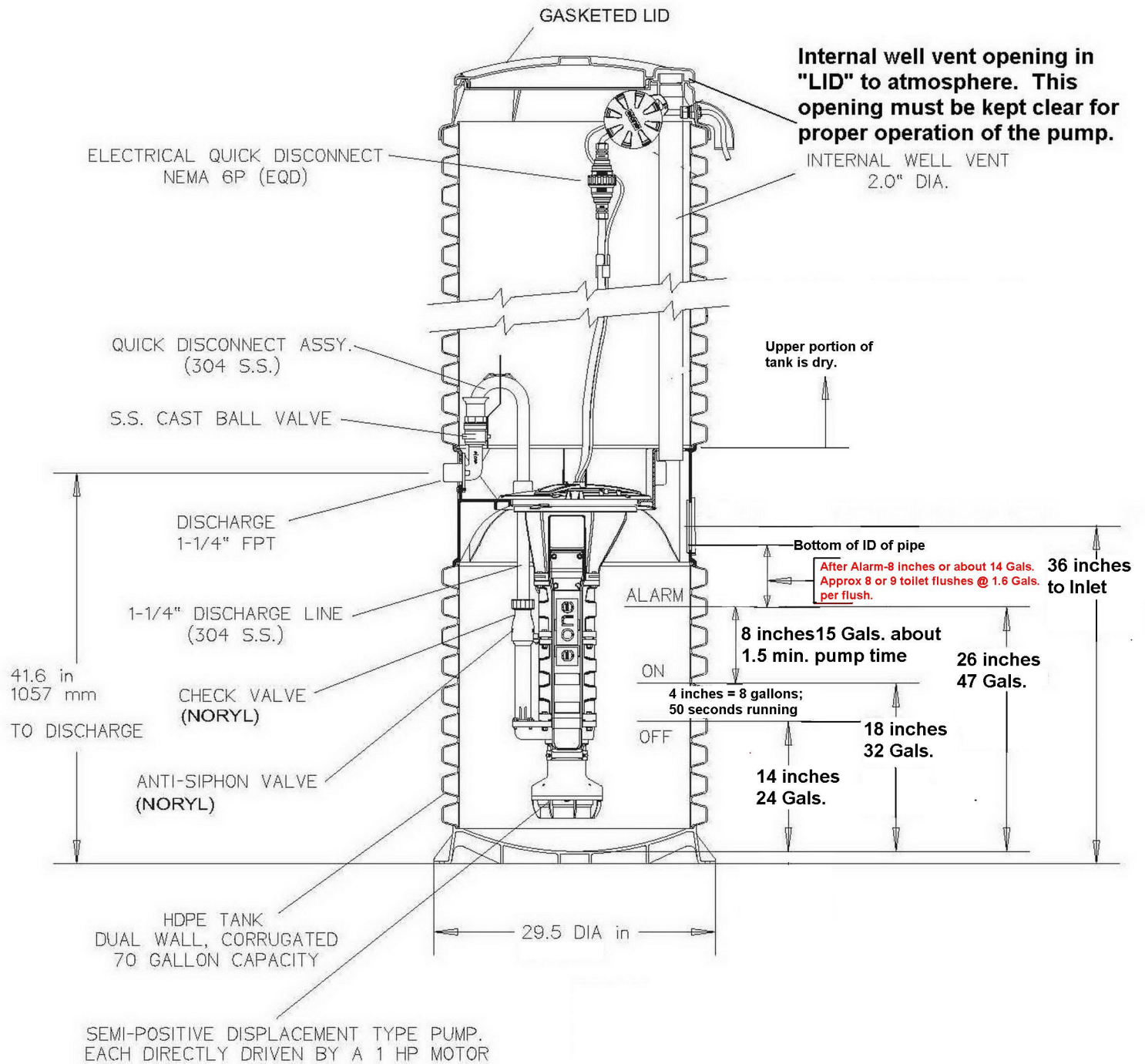
Vent Location



Vent opening is on the underside of the lip.



Individual User Information



Note 1:

Pump volume varies depending on system pressure from about 8 gpm to 14 gpm.

At system Pressure of 60 psi, the pump flow is 9.5 gpm. Under these design conditions the time from pump "on" to pump "off" is approximately 50 seconds.