



A Family and Employee Owned Company

User Guidelines

1399000A

Grinder Systems

LEAVE WITH HOMEOWNER

Grinder Pump System Operation

A single (or two in a duplex system) pump is placed in a tank (basin) that is buried in a convenient outdoor location on your property. The basin provides a small amount of wastewater storage capacity. When water is used in the house, wastewater flows into the basin. When the wastewater in the basin reaches a preset level, the pump automatically turns on and pumps the waste out of the basin to the wastewater treatment plant. The pump will normally run for a few minutes and automatically shut off when the basin is emptied. The pump is connected to a control panel usually located in the vicinity of the pump station.

If the pump malfunctions or is interrupted, and the waste level in the holding basin rises above a certain level, the alarm panel alerts the homeowner that the pump is experiencing problems. The alarm panel should have both an alarm horn and an indicator light.

The basin, likely constructed of fiberglass, has an inlet opening and a discharge opening. The wastewater gravity sewer from the home is connected to the inlet; the pipe that leads to the sewer main is connected to the discharge.

The basin has a cover made from heavy-duty fiberglass.

This is a collection and transportation system. It does not replace sewage treatment. The sewage needs to be pumped to a sewer line for some form of treatment.

System Details

A Liberty Pumps grinder pump system consists of a grinder pump and float controls, in a covered basin that is buried in the ground, with an externally mounted alarm and control panel box.

System Surroundings

With an outdoor system buried in the ground, you should not hear it from 10 to 15 feet away. If you are in closer proximity, it will sound similar to your washing machine when it's running (just a hum).

Ensure access is available to the pump station at all times. When installing landscaping, do not plant trees or shrubs around or near the household pump system. There must be enough space to work on the pump system when necessary.

Take care when digging near the pump station or the discharge pipe. If you accidentally break any pipeline, contact a your plumber immediately and minimize use of water in the house.

Resident Responsibilities

- Flush Responsibly
- Do Not Ignore Alarm
- Do Not Turn Off Power to the Pump
- Ensure System Cover Access
- Be Vigilant to Notify Guests of Do Not Flush Items
- Know the Location of your Grinder System and Alarm/ Control Panel Box
- Act Quickly at Loss of Power

Do Not Tamper with System

Do not attempt to enter the basin or remove the access cover. The septic environment creates gases that can cause serious illness. If your lid has been removed or damaged, immediately contact your plumbing contractor for repair.

Do not attempt to open the control panel.

Information from pump nameplate:

Pump Model #: _____
Pump Serial #: _____
Manufacture Date: _____
Install Date: _____

Protect the Pump System

To avoid system blockage and pump damage, the following items should NOT be placed into any sewer system. The following is not a comprehensive list but rather a more common list of things to keep out of the grinder system.

Never flush dental floss, fats, oils, grease, abrasives, cat litter, or other items that can clog and potentially damage your grinder system. Dispose of these items in the garbage.

Flushing household chemicals, gasoline, oil, pesticides, antifreeze, flammable or explosive materials, and paint can present a safety hazard in the system. Check labels on chemicals prior to their disposal. These items should be taken to the appropriate local hazardous materials handling or recycling station and disposed of in a safe and legal manner.

Audio and Visual Alarm Warnings

Your grinder pump system is equipped with an alarm system that will warn of any pump failures. An alarm horn and indicator light will be located on the exterior of your home. When liquid levels in your basin are outside the allowable levels, the alarm will sound.

The following steps should be taken to prevent further pump and system damage:

1. Discontinue water use to prevent system overflow or backup.
2. Press the button located on the alarm panel to silence the alarm. This will silence the alarm horn, but the visual indicator light will stay active (this just recognizes owner's acknowledgment).
3. Wait 30 minutes, limit water usage, and check to see if the light on the alarm panel is still on.
 - a. If the light is off, the panel is no longer in alarm; no further action is required.
 - b. If the light is still lit, contact your plumber to investigate.

If the alarm sounded and the system subsequently cleared itself, or you notice any irregularity with the system, such as the alarm sounding frequently, contact your plumber to investigate.

Do not attempt to open the basin cover or the electrical box. Electrical shock or damage to the system may occur.

Power Failure

In the event of a power failure, reduce water use as much as possible, as continued usage can create a system overflow or backup. The alarm may activate until the system clears itself. If the alarm remains on for over an hour after the power has been restored, contact your plumber to investigate.

Vacation

Prior to extended time away from your residence (such as a vacation), flush the system before you go away. Run clean water from an inside tap long enough for the pump system to activate. Turn off the water and allow the grinder pump to run until it shuts off automatically. If you have a duplex system (two pumps), special attention must be taken to ensure that both pumps turn on when water is added to the basin.

This process will clear the pump and leave it filled with a minimum of clean water.

Always leave the electrical power on.

Troubleshooting

Odors from Grinder Pump System

When operating normally, there should be no noticeable odors coming from the system. If there are odors, the system may need flushing. Run clean water down the kitchen, laundry, or bathroom sink for about 10 minutes. If odors persist, contact your plumber to investigate.

Wet Areas Near the Basin or Discharge Pipe

The pumping system and discharge pipe are totally sealed. If you notice wet areas around the system or discharge pipe and there has not been any recent rain, contact your plumber to investigate.

Rain Triggers Alarm

Rainwater may be getting into the system and overloading it. Contact your plumber to investigate.

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