

# BARNES GRINDER PUMP PACKAGE

## Winterizing, Freeze Protection

*Everyone. Everywhere. On Time Every Time.*

### GRINDER PUMP PACKAGE WINTERIZATION STEPS

- The Barnes grinder pump basin typically is installed to a depth that negates freezing problems. If the basin will not be used for an extended period of time AND has been prone to freeze problems, potable type anti-freeze can be added to the basin.

#### Grinder Pump Package Seasonal Shut Down Procedure (when freezing problems have not been previously experienced)

- Remove the basin cover and check the basin for debris and grease buildup on level control and inside of tank. If debris is present, clean using dish detergent and normal household hose pressure with the grinder pump activated.
- Once excess debris and grease has been removed and prior to last usage, flush system by filling and draining approximately two bathtubs full of water. Doing this will flush the waste line to the basin , the basin and the lateral to the main sewer.
- Keep power to the station ON during the season of non-usage. Keeping power to the grinder pump basin will aid in the prevention of fluid backup into the home.

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### GRINDER PUMP PACKAGE WINTERIZATION STEPS – WHEN FREEZING PROBLEMS EXIST

- If the basin will not be used for an extended period, especially during colder months, proper steps should be taken to ensure uninterrupted use upon restarting the basin.
- Remove the basin cover and check the liquid level.
- Manually pump the station level down to the normal OFF level. **DO NOT** pump the liquid level below the suction at the bottom of the pump.
- With the liquid level at the normal OFF level, add fresh water until the pump turns ON by itself and liquid level is reduced to its normal OFF level again.
- Add an appropriate amount of RV type anti-freeze (only potable, non-toxic) to the basin liquid to achieve a 50/50 solution mixture. Amounts required are as follows.

<u>Basin Diameter/Type</u>	<u>Gallons</u>	<u>50/50%</u>
24"	20	10 gal antifreeze
30"	30	15 gal antifreeze
36"	45	23 gal antifreeze
EcoTRAN	10	5 gal antifreeze



- **NOTE: DO NOT USE AUTOMOTIVE TYPE ANTI-FREEZE**
- After the anti-freeze has been added, manually activate the pump for a few seconds to mix the anti-freeze into the pump and discharge piping.
- **DO NOT TURN THE CIRCUIT BREAKER OFF WHILE THE SYSTEM IS NOT BEING USED FOR AN EXTENDED PERIOD OF TIME.** With the grinder pump in the off mode, water that infiltrates the basin (if any) will need to be removed by the activated pump.
- In extremely cold and windy conditions, the lid of the basin cover and top portion of the basin can be insulated to protect the pump from freezing. Care must be taken to secure insulation in the top portion of the tank. Heavy snow cover will actually insulate the basin.