



Bar-Bar-A Horse and Livestock Drinker

Installation Instructions

For frost lines 3' and under

PLEASE CALL ON INSTALLTION DAY FOR A QUICK INSTALLTION CHECKLIST-800-451-2230

PLEASE READ ENTIRE DOCUMENT BEFORE INSTALLING- the following procedures will **cause your Drinker to malfunction**: **1. Running dirty water through the new Drinker lines.** If this happens the valve can stick and will need to be cleaned out. To avoid this situation flush your lines out thoroughly **before** connecting to the Drinker line. **2. Do not remove plastic ties from waterline flex-hose** (one is found at the base of the black well {exterior} and the others on the valve assembly {interior}) and/or remove any of the pre-measured coiled water line. They are there to prevent undo stress on the valve assembly. **3. Also, do not disassemble the unit before you install it.** After it is installed, if you need to access or see what is inside you may remove the top as described in the trouble shooting document. **4. When you connect your supply line to the Drinker's line connect it outside of the Drinker well.** Excess flexible hose from the white plastic tie to the connection point should be positioned outside of the Drinker tube. **Do not stuff the excess or the connection back into the well.** **5. Do not have more than 24 inches of the unit showing from the ground.**

SELECTING A SITE

- May be installed free standing in paddock or pasture.
- May be installed on a fence-line accessible from multiple paddocks.
- May be installed free standing in a stall or in a stall partition serving multiple stalls.
- Select installation area furthest from feed source to limit debris in Drinker bowl.

THE FOLLOWING REQUIREMENTS WILL HELP TO ENSURE THAT YOUR BAR-BAR-A DRINKER WILL FUNCTION PROPERLY. DISREGARDING ANY OF THE FOLLOWING REQUIRMENTS MAY VOID WARRANTY(1 year on any defective part caused by manufacturer).

- **Water Supply:** Must be clean of debris to prevent damage to or malfunction of the valve and filter.
- **Water Pressure:** Minimum of 20 psi, maximum of 100 psi. If water pressure exceeds 100 psi a regulator is required to reduce the pressure.
- **Shut-off valve:** There should be an accessible shut off in the water supply line that can be accessed in any weather for maintenance and/or emergency purposes.
- **Drain Field:** Because the operation of the BAR-BAR-A Drinker permits the drinking basin and supply pipe to drain free of water, a sufficient drain-field is required (see drain field instructions below).
- **Clearance:** If installing in a fence line or in a stall partition allow 3-5 inches of clearance around the Drinker and at least 20 inches (it is best if you create the area in your fence-line or stall partition, so it can be totally removed when the time comes to service the Drinker) of clearance above the Drinker for easy access for drinking and basin removal.
- **Modifying Inner Workings:** Modifying any of the inner workings will void warranty.

MATERIALS NEEDED: 1. Gravel (pea size to golf ball size) for 4' x 4' x 2' drain field 2. 4' x 4' piece of plastic for drain field protection. 3. Fittings (1/2" barbed swing-pipe adapter) and hose clamp to connect your water line to our 1/2" flexible hose line. 4. 3' x 18"(Internal Diameter) pipe sleeve made of ADS corrugated pipe or equivalent and 150 pounds of pea size gravel. (See diagram or **at bottom of page for pipe sleeve information)

STEP-BY-STEP INSTALLATION:

- Step 1 Dig a hole deep enough to accommodate the Drinker tube plus 16" of clearance below the bottom end of the well (this extra room will allow for the drain field explained in Step 4). **No more than 24" of the Drinker should be exposed above ground level.** *For example:* If you plan to bury your Drinker tube 36" deep, then dig a hole 52" deep.
- Step 2 The water supply line trench must lead to the hole. This trench should be dug as deep as the well hole for a distance of 10 to 15 feet radially from the well hole.
- Step 3 **Create the drain field:** The installation hole and water supply line trench is used as the drain field. It must be filled with 12" - 18" of gravel, lava rock, or other porous material. The following steps explain how to create an effective drain field (**If you have clay soil expand drain field- call for instruction**).

- Step 4 Before backfilling the water supply line trench and the Drinker installation hole with dirt, back-fill the hole and 10 to 15 feet of the trench with 12" - 18" of gravel, lava rock or other porous material. Again, your trench must be deep enough to allow the entire 12" of porous material to be below your local frost depth. The Drinker well hole (installation hole) must be deep enough to allow for 16" of this porous material below the bottom of the 15" diameter Drinker well. This barrier of porous material helps greatly in deterring the penetration of frost, particularly as animals compact the ground around the Drinker, which drives frost down.
- Step 5 Cover the porous material in the trench and Drinker hole with plastic, landscape paper, or burlap. Cut a 15" diameter hole in the plastic or burlap to accommodate the 15" diameter Drinker tube. This barrier will prevent the filtration of dirt into the drain field which would decrease the life and effectiveness of the drain field.
- Step 6 **Connecting waterlines:** Flush your supply line clean (failing to flush your line may result in dirt entering the valve and causing the valve to malfunction) and then connect the supply line with the Drinker line. Make the necessary connections to the Drinker's 1/2" swing-pipe using a barbed end fitting (1/2" swing-pipe adapter) for the Drinker line with a threaded male end that will fit into your supply line fittings. Use hose clamps and Teflon tape around the connections to ensure a leak-free fit. Keep the portion of the hose that comes out of the Drinker on the exterior of the unit. Do not stuff back up into the Drinker.
- Step 7 When the Drinker has been properly connected, position the Drinker in place and ensure that the hole depth is correct. Turn the water on and check for leaks in the connections. Check that the Drinker is level. If there are no leaks carefully backfill the hole and trench with dirt (not gravel). Hold the Drinker vertical and pack as you go. When packing dirt around the 15" diameter Drinker tube be careful not to cause the well to collapse in anyway or a large rock next to the well. If this happens you will not be able to perform maintenance on the unit because it will not be accessible. **see alternative method below and diagram

TESTING THE UNIT AFTER INSTALLATION:

After the unit is installed it needs to be tested to be sure all is working properly. **1.** Hold down the paddle and fill the basin with water. Let the water drain. Drain time should be between 60 and 90 seconds (If drain time is over 90 seconds then clean the filter as described in the maintenance section). **2.** With this test done remove the screws out of the top of the unit as described in the maintenance section and pull the top and inner workings of the unit out of the ground. If the unit will not pull-up then the tube casing has been concaved. This problem can be fixed by digging down to the problem area and reshaping the tube. Before back filling again re-try to pull the unit out. When it comes out re-insert the workings and top back into the unit. Align the screw holes and attach the screws and backfill carefully. Your unit is now ready for use.

****Pipe Sleeve Information**

This method is to protect the unit outer tube from indentation from compacted soil. If this were to happen it makes pulling the inner workings out of the unit extremely difficult. This method prevents that problem from occurring. With the Drinker in place over the drain field, cover the drain field with a few inches of dirt. Place the 3 foot x 18" ADS pipe over the Drinker and on top of the dirt over the drain field. When completed the ADS pipe should be slightly above ground level. You may need to vary the dirt amount covering the drain field to make this adjustment. Fill the hole and keep the ADS pipe with equal distance around Drinker. When the top is reached add the pea gravel to the inside of the ADS pipe until the surface level is reached. With the hole filled you may add a 18" tire on the surface as a protection to the unit from pawing.

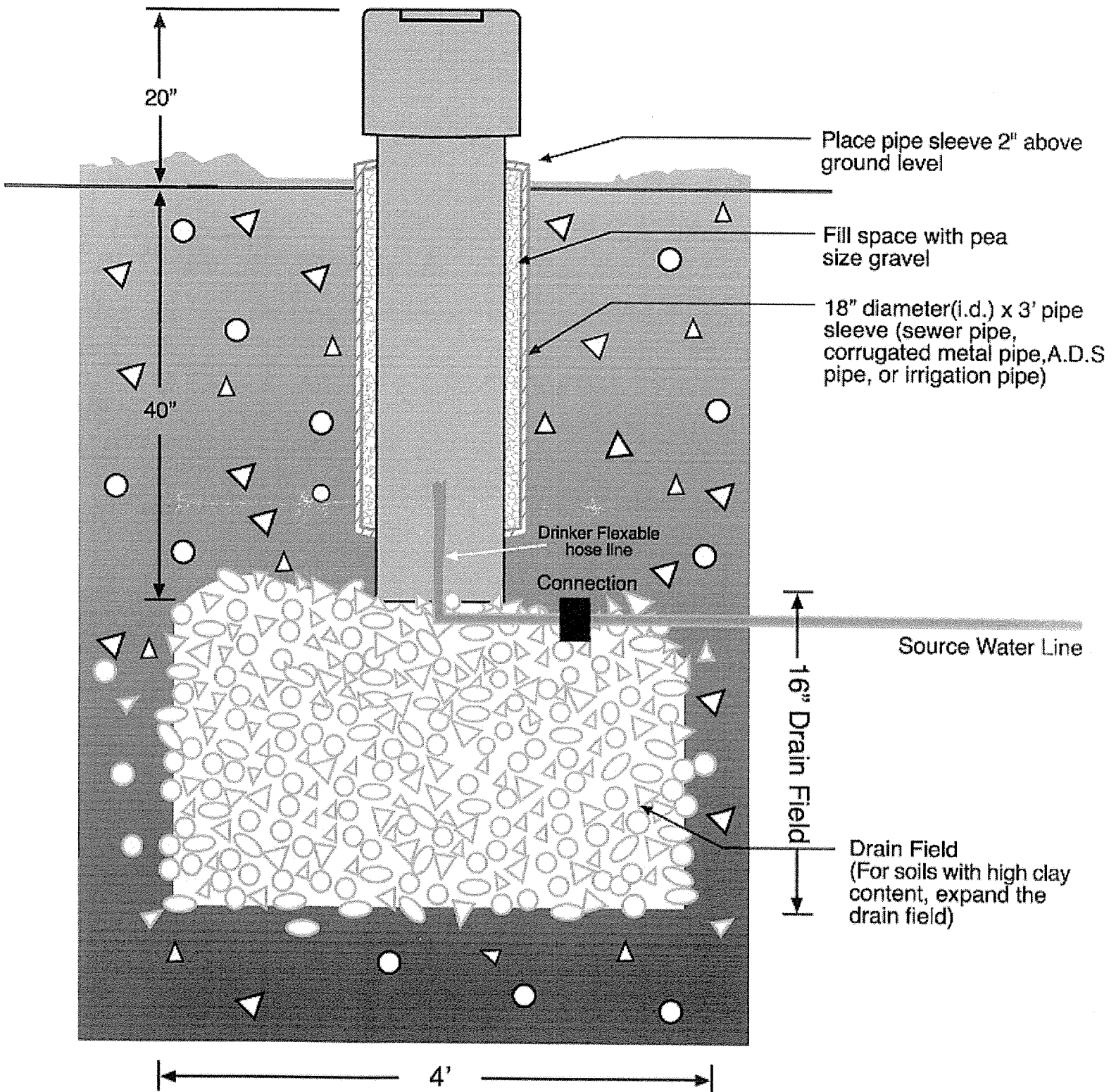
Get to Know Your Unit

Learn how to maintain your own unit. The best time to do this is in pleasant weather and under controlled circumstances. If a problem occurs you will be many times ahead of solving the problem. (See the trouble shooting guide)

Check the Unit on a Regular Basis Check your unit regularly to make sure water is coming into bowl and that drainage is speedy. If water is not coming into the bowl animals will not have the water they need. If drainage is too slow the unit may freeze. (See trouble shooting guide)

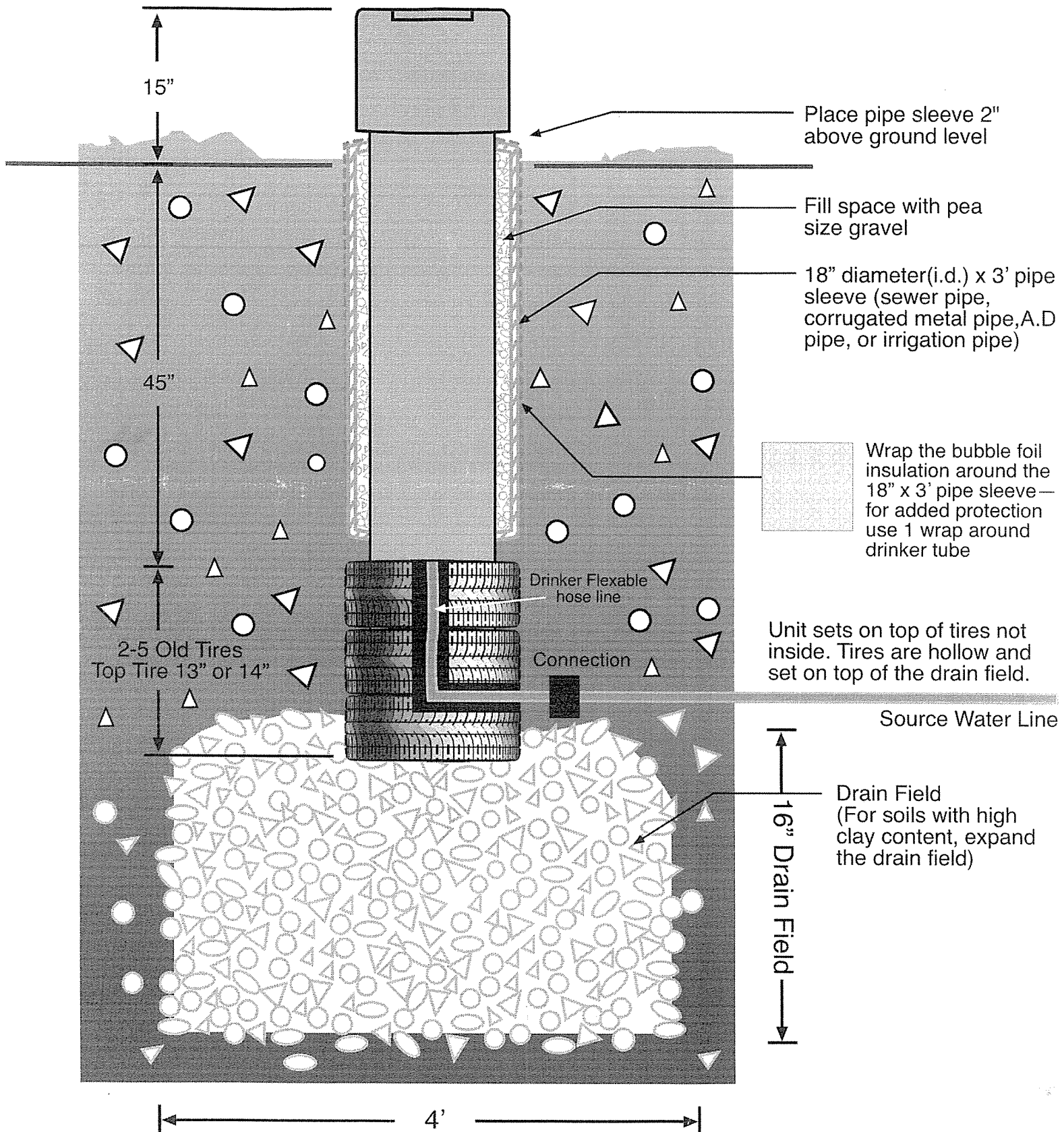
Moderate Climate Installation

For frost lines 3 feet and under



Extreme Climate Installation

For frost lines deeper than 3 feet



Bar-Bar-A Horse Drinkers

Plain City, UT 84404

800-451-2230 www.HorseDrinker.com

Order # 8146A					Invoice Date 07/18/14	Page 1	
Bill To Maryjane Butters 1000 Wild Iris Lane Moscow, ID 83843				Ship To			
Customer No. 8971	Sales I.D. /DGA	Reference #	Source /R	Terms XXXXXXXXX1829 VISA			
Ordered By		Warehouse	Phone Number (208) 882-6819	Total Wt. 0.0 Lbs	Zone 8	Pkg 1	Ship Via UPS

Thank you for choosing Bar-Bar-A. Please call for check list just before installing. 800-451-2230

All Products made 100% in the U.S.A

Qty	B/O	Ship	Item #	Description	Un. Price	Ds	Amount
3	0	3	8000-IP	Insulated Cattle/Cattle Guard	439.00	--	1317.00
3	0	3	D	Discount	-30.00	--	-90.00
						MERCHANDISE INVOICE TOTAL \$	1227.00
						INVOICE TOTAL \$	1227.00
						CR. CARD: VI, APPR: 502238\$	-1227.00