



BAR-BAR-A HORSE AND CATTLE DRINKER

Installation Instructions

READ FIRST BEFORE CONTINUING- 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 other on the valve assembly {interior}). They are there to prevent undo stress on the valve assembly. Also, do not disassemble the unit before you install it. 3. After it is installed if you need to access or see what is inside you may remove the top as described below. 4. When connecting 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.

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 REQUIREMENTS MAY VOID WARRANTY. (30 days money back guarantee, 1-year parts and labor)

- **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 5 inches of clearance around the Drinker and 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.

MAINTENANCE: The Drinker is very low maintenance. However, occasionally (approximately every 24 months) a gasket in the valve may need to be turned over or replaced. ***This job is simple because the Drinker never has to be dug up to reach the valve.*** The black top will easily remove from the 15" diameter black tube by removing the two visible side screws. When the top is pulled carefully upwards, everything (with the exception of the 15" diameter black tube) will come to the surface for adjustment or maintenance in a matter of seconds. Located on the black flexible hose is a red-knobbed valve for shutting off the water supply while working on the system. When the valve assembly is accessible refer to the valve diagram that came with the system for visual specifics. This same procedure can be used if a valve is sticking due to dirt in the valve. Also, if drainage is very slow (2+ minutes), the drain filter could be full of debris. To clean or change the filter pull the unit out of the ground as previously explained and disconnect the union that is located at the base of the drain pipe. The filter is easily seen and can be removed with your fingers. Be careful to not loose the rubber "O" ring inside the union. It is also possible that the brass drain valve (located at the very end of the unit) could have some debris blocking water flow. Remove the brass drain valve and remove any debris. Re-attach drain valve.

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. 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" flex hose using a barbed end fitting 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 up into the Drinker.**
- Step 4. **Create the drain field:** The installation hole and water supply line trench is used as the drain field. It must be filled with 12" - 14" of gravel, lava rock, or other porous material. The following steps explain how to create an effective drain field.
- Step 4.1. Before backfilling the water supply line trench and the Drinker installation hole with dirt, backfill the hole and 10 to 15 feet of the trench with 12" - 14" 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 4.2. Cover the porous material in the trench and Drinker hole with plastic or burlap. Cut a 15" diameter hole in the plastic or burlap to accommodate the 15" diameter Drinker tube. This plastic or burlap barrier will prevent the filtration of dirt into the drain field which would decrease the life and effectiveness of the drain field.
- Step 4.3. Ensure that the Drinker has been connected as described in Step 3.
- Step 4.4. 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 slightly off level so that when the basin is filled it overflows toward the end of the paddle and not toward the slice that the paddle fits into the Drinker. This precaution helps keep the flow of water from entering the inside of the unit. 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.

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.

