

GEOCLIP® Installation Instructions



The following instructions provide an overview of how to properly install the GEOCLIP u-bend pipe separator.

1. After completion of borehole drilling and before u-bend insertion, attach any required anchors or iron (sinker) bars at the base of each vertical heat exchanger u-bend.

- GEOCLIPs are attached during insertion while the u-bend pipe is being uncoiled from a reel.
- GEOCLIPs are packaged with the spring mechanism locked in a compressed position with a plastic retaining clip. It is recommended that GEOCLIPs be attached every 10 feet along the u-bend with the first GEOCLIP being attached 10 feet above the base of the u-bend.

2. Snap each pipe of the u-bend to the GEOCLIP.



Position each GEOCLIP so that the spring wire is facing upward and the tremie hooks are facing towards the installer.

3. Next, snap tremie pipe into GEOCLIP's tremie hooks.



Note: Must use a smooth hard surface tremie pipe such as polyethylene or flush joint PVC pipe. Rubber hose tremie pipe cannot be used. Use a 1" tremie pipe for 3/4" u-bend pipe. Use a 1" or 1 1/4" tremie pipe for a 1" and 1 1/4" u-bend.

4. Remove the plastic retaining clip from the GEOCLIP before insertion into the borehole.



The tremie pipe will keep the spring mechanism in a compressed position.

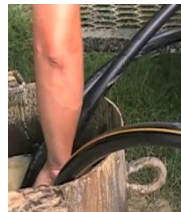
5. Install u-bend, tremie, and GEOCLIPs.



6. Pump high solids bentonite grout or suitable grouting materials through the tremie pipe to the bottom of the borehole.



7. Pull tremie pipe out of the borehole as grout level rises, but keep tremie pipe below the top of the grout level within the borehole.



It is important that the tremie pipe be pulled up slowly to ensure the grout fills the hole completely.

8. The GEOCLIP's spring mechanism is released as the tremie pipe is pulled out, positioning the u-bend pipes against the borehole wall directly across from one another.



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