

# Septic System Installation Instructions

## Quick4® Equalizer® 24 Chambers

### Before You Begin

**Quick4 Equalizer 24 Chambers may only be installed according to State and/or local regulations. If unsure of the installation requirements for a particular site, contact the local health department.**

Like conventional systems, the soil and site conditions must be approved prior to installation. Conduct a thorough site evaluation to determine the proper sizing and siting of the system before installation.

#### Materials and Equipment Needed

- |   |  |
|---|--|
| <input type="checkbox"/> Quick4 Equalizer 24 Chambers | <input type="checkbox"/> 1½-inch Drywall Screws          |
| <input type="checkbox"/> MultiPort End Caps           | <input type="checkbox"/> Screw Gun                       |
| <input type="checkbox"/> PVC Pipe and Couplings       | <input type="checkbox"/> Hole Saw*                       |
| <input type="checkbox"/> Backhoe                      | <input type="checkbox"/> Small Valve-Cover Box*          |
| <input type="checkbox"/> Laser, Transit, or Level     | <input type="checkbox"/> 4-inch Cap for Inspection Port* |
| <input type="checkbox"/> Shovel and Rake              | <input type="checkbox"/> Invert Adapter*                 |
| <input type="checkbox"/> Tape Measure                 |  |
| <input type="checkbox"/> Utility Knife                | * Optional   |

**These guidelines for construction machinery must be followed during installation:**

- Avoid direct contact with chambers when using construction equipment. Chambers require a 12-inch minimum of compacted cover to support a wheel load rating of 16,000 lbs/axle or equivalent to an H-10 AASHTO load rating.
- Only drive across the trenches when necessary. Never drive down the length of the trenches.
- To avoid additional soil compaction, never drive heavy vehicles over the completed system.

### Excavating and Preparing the Site

*Note: As is the case with conventional systems, do not install the systems in wet conditions or in overly moist soils, as this causes machinery to smear the soil.*

1. Stake out the location of all trenches and lines. Set the elevations of the tank, pipe, and trench bottom.
2. Install sedimentation and erosion control measures. Temporary drainage swales/berms may be installed to protect the site during rainfall events.
3. Excavate and level 18" to 24" wide trenches with proper center-to-center separation. Verify that the trenches are level or have the prescribed slope.

*Note: Over excavate the trench width in areas where you are planning to contour.*

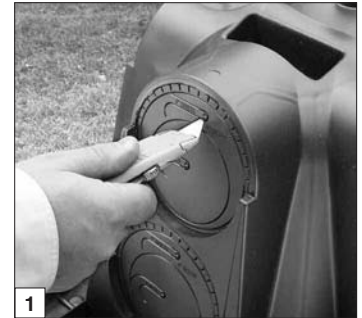
4. Rake the bottom and sides if smearing has occurred while excavating. Remove any large stones and other debris. Do not use the bucket teeth to rake the trench bottom.

*Note: Raking to eliminate smearing is not necessary in sandy soils. In fine textured soils (silts and clays), avoid walking in the trench to prevent compaction and loss of soil structure.*

5. Verify that each trench is level using a level, transit, or laser.

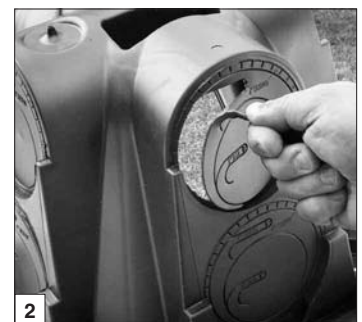
### Preparing the End Cap

1. With a utility knife start the tear-out seal at the appropriate diameter for the inlet pipe. The seal allows for a tight fit for 3-inch, 4-inch SDR35, and 4-inch SCH40 pipe.



1 Start tear-out seal.

2. Pull the tab on the tear-out seal to create an opening on the end cap.



2 Pull tab on tear-out seal.

3. Snap off the molded splash plate located on the bottom front of the end cap.

4. Install splash plate into the appropriate slots below the inlet to prevent trench bottom erosion.

5. Insert the inlet pipe into the end cap at the beginning of the trench. Extend the pipe into the end cap roughly 3 inches before reaching the stop. (Screws optional.)

### Installing the System

1. Check the header pipe to be sure it is level or has the prescribed slope.

2. Set the invert height at 6, 9 or 10 inches as specified in the design from the bottom of the inlet.

*Note: Use the Invert Adapter to achieve a 9" or 10" invert height.*

3. Place the inlet end of the first chamber over the back edge of the end cap. Line up the notches on the bottom of each side of the end cap with the slots on the bottom edge of the chamber.



3 Place first chamber onto end cap.

4. Insert two 1½" drywall screws on each side of the chambers. Tighten each screw until the end cap is firmly secured to the chamber.



4 Insert drywall screws.

5. Lift and place the end of the next chamber onto the previous chamber by holding it at a 90-degree angle. Line up the chamber end between the connector hook and locking pin at the top of the first chamber. Lower the chamber to the ground to connect the chambers.



Connect the chambers.

*Note: When the chamber end is placed between the connector hook and locking pin at a 90-degree angle, the pin will be visible from the back side of the chamber.*

*Note: The connector hook serves as a guide to ensure proper connection and does not add structural integrity to the chamber joint. Broken hooks will not affect the structure or void the warranty.*

6. Swivel the chamber on the pin to achieve the proper direction for the trench layout.

*Note: The chamber allows up to a 15-degree swivel in either direction at each joint.*

7. Continue connecting the chambers until the trench is completed.

*Note: As chambers are installed, verify they are level or have the prescribed slope.*

8. The last chamber in the trench requires a MultiPort end cap. Lift the end cap at a 45-degree angle and insert the connector hook through the opening on the top of the end cap. Applying firm pressure, lower the end cap to the ground to snap it into place. Do not remove tear-out seal.



Attach end cap to chamber.

*Note: Use straight lengths of pipe with the MultiPort end cap at the trench ends to create fitting-free looped ends.*

9. To ensure structural stability, fill the sidewall area by pulling soil from the sides of the trench with a shovel. Start at the joints where the chambers connect. Continue backfilling the entire sidewall area, making sure the fill covers the louvers.

10. Pack down the fill by walking along the edges of the trench and chambers. This is an important step in assuring structural support.

*Note: In wet or clay soils, do not walk in the sidewalls.*

11. Proceed to the next trench and begin with Step 1.

## Installing Optional Inspection Ports

1. With a hole saw, drill the pre-marked area in the top of the chamber to create a 4-inch opening.

2. Set a cut piece of pipe of the appropriate length into the corresponding chamber's inspection port sleeve.

*Note: The sleeve will accommodate up to a 4-inch SCH40 pipe.*

3. Use two screws to fasten the pipe to the sleeve around the inspection port.

4. Attach a threaded cap or cleanout assembly onto the protruding pipe at the appropriate height.

5. A small valve cover box may be used if inspection port is below the desired grade.

## Covering the System

**Before backfilling, the system must be inspected by a health officer or other official as required by State and local codes. Create an as-built drawing at this time for future records.**

1. Backfill the trench by pushing fill material over the chambers with a backhoe. Keep a minimum of 12 inches of compacted cover over the chambers before driving over the system.

*Note: Do not drive over system while backfilling in sand.*

*Note: For shallow cover applications, you must mound 12 inches of soil over the system before driving over it, and then grade it back to 6 inches upon completion.*

2. It is best to mound several inches of soil over the finish grade to allow for settling. This also ensures that runoff water is diverted away from the system.

3. After the system is covered, the site should be seeded or sodded to prevent erosion.

*Note: If the system is for new home construction, it is important to leave marking stakes along the boundary of the system. This will notify contractors of the site location so they will not cross it with equipment or vehicles.*

**Infiltrator Systems, Inc. Limited Warranty** (a) The structural integrity of each chamber, end cap and other accessory manufactured by Infiltrator ("Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date that the septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required by applicable law, the warranty period will begin upon the date that installation of the septic system commences. To exercise its warranty rights, Holder must notify Infiltrator in writing at its Corporate Headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect. Infiltrator will supply replacement Units for Units determined by Infiltrator to be covered by this Limited Warranty. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Units. (b) THE LIMITED WARRANTY AND REMEDIES IN SUBPARAGRAPH (a) ARE EXCLUSIVE. THERE ARE NO OTHER WARRANTIES WITH RESPECT TO THE UNITS, INCLUDING NO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. (c) This Limited Warranty shall be void if any part of the chamber system is manufactured by anyone other than Infiltrator. The Limited Warranty does not extend to incidental, consequential, special or indirect damages. Infiltrator shall not be liable for penalties or liquidated damages, including loss of production and profits, labor and materials, overhead costs, or other losses or expenses incurred by the Holder or any third party. Specifically excluded from Limited Warranty coverage are damage to the Units due to ordinary wear and tear, alteration, accident, misuse, abuse or neglect of the Units; the Units being subjected to vehicle traffic or other conditions which are not permitted by the installation instructions; failure to maintain the minimum ground covers set forth in the installation instructions; the placement of improper materials into the system containing the Units; failure of the Units or the septic system due to improper siting or improper sizing, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. This Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in this Limited Warranty. Further, in no event shall Infiltrator be responsible for any loss or damage to the Holder, the Units, or any third party resulting from installation or shipment, or from any product liability claims of Holder or any third party. For this Limited Warranty to apply, the Units must be installed in accordance with all site conditions required by State and local codes; all other applicable laws; and Infiltrator's installation instructions. (d) No representative of Infiltrator has the authority to change or extend this Limited Warranty. No warranty applies to any party other than the original Holder. The above represents the standard Limited Warranty offered by Infiltrator. A limited number of States and counties have different warranty requirements. Any purchaser of Units should contact Infiltrator's Corporate Headquarters in Old Saybrook, Connecticut, prior to such purchase, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.



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