Date: 11/12/2026

Arkansas
Department of Health
Keeping Your Hometown Healthy

SEPTIC TANK PERMIT

Customer Name: BUD THORNTON
Customer No: 7602117168

Transaction Date: 11/11/2026
Transaction No: 28900301 Created By: SepticOnline

Amount Received: $30.00

Paid By: Bud Thornton

Owner's Name:	Greg Jackson
Site Location:	5913 W. Hwy 8
Subdivision:	
Lot Number:	NA
Desiginated Rep:	7602117168 BUD THORNTON
Sanitarian:	Riley, Kelly

Thank you for your payment

Central Office / Freeway Medical
4815 W Markham St

Little Rock AR 72205

Arkansas Department of Health
Environmental Health Protection

Receipt Number 28900301

Individual Onsite Wastewater System Permit Application

Permit Type ☐ New Installation ☒ Alteration / Repair

DR Environmental ID # 7 6 0 2 1 1 7 1 6 8

Fee Schedule for Structures		
Structures 1500 sq ft or less	$ 30.00	
Structures more than 1500 sq ft and up to 2000 sq ft	$ 45.00	☐
Structures more than 2000 sq ft and up to 3000 sq ft	$ 90.00	☐
Structures more than 3000 sq ft and up to 4000 sq ft	$120.00	☐
Structures more than 4000 sq ft	$150.00	☐
Alteration and Repair	$ 30.00	☒

Part 1 Application

Treatment Type (check one)

☒ STD = Standard Septic Tank
☐ ISF = Intermittent Sand Filter
☐ PMF = Proprietary Media Filter
☐ OTR = Other (Describe)
☐ ATU = Aerobic Treatment Plant
☐ RSF = Re-circulating Sand Filter
☐ RGF = Re-circulating Gravel Filter
☐ HLD = Holding Tank

Disposal Method (check one)

☒ STD = Standard Absorption Field
☐ SUR = Surface Discharge
☐ CPF = Capping Fill
☐ OTH = Other
☐ LPD = Low Pressure Distribution
☐ HLD = Holding Tank
☐ SRL = Serial Distribution
☐ DRP = Drip Irrigation

1. Owner's/Applicant's Name	2. Phone Number
Greg Jackson	870-858-1510
3. Mailing Address	**4. County**
5913 W. Hwy 8, Sparkman, AR 71763	Dallas

5. Address of Proposed System (If a 911 address is not available, attach detailed directions or map)
5913 W. Hwy 8, Sparkman, AR 71763

6. Subdivision Name	7. Approval Date	8. Date Recorded	9. Lot Number
NA	NA	NA	NA
10. Lot Dimensions	**11. Total Area (Acres)**	**12. # Bedrooms / # People**	**13. Daily Flow (GPD)**
App.250'x440'	2	2	270

14. Parcel Number or Brief Legal Description of Property (Attach a separate sheet of paper, if necessary)
Part of the E1/2 SE1/4 NE1/4 of Section 24 Township 8S Range 17W

15. Water Supply (Specify supplier if Public Water)	16. GPS Coordinates
Sparkman Water	Primary 34.015871 -92.788859

17. Loading Rates	(gpd/ft²)	18. System Specifications						
Primary Area	.75	a. Size of Septic Tank	1250 Combo	gal	f. Trench Depth	18	inches	
Secondary Area	NA	b. Size of Dose Tank	NA	gal	g. Trench Spacing	10	feet	
Percolation Test	(min/in)	c. Absorption Area	384	ft²	h. Trench Media (List Below)		i. Trench Width	
Primary Area Avg	NA	d. Number of Field Lines	3		EQ 24 Chambers	18	in.	
Secondary Area	NA	e. Length of Field Lines	60	ft	Pipe and Gravel	24	in.	

TO THE OWNER
The permit for construction may be deemed invalid by the local Environmental Health Specialist before the start of construction, if the site and/or soil conditions have changed after approval of this permit, or if the information within this permit is inaccurate or has been found to be misrepresented. Approval for operation does not constitute a guarantee that the system will function properly. The approval states that the system was designed and installed according to the Arkansas Department of Health, Rules Pertaining to Onsite Wastewater Systems, unless there are exceptions or deviations noted in the comments. A Permit for Construction is valid for one (1) year from the date of approval. The authorized agent must revalidate a permit more than one (1) year old prior to the start of any construction.

19. Utilization Verification
I hereby attest that item 12, the number of bedrooms (number of persons for commercial) and square footage of the structure that will utilize the designed individual onsite wastewater system in this permit application, is accurate. I have reviewed the permit application and understand the layout, installation, maintenance, operation and expense(s) that may be associated with this system.

See Opt. A — Date 08/21/2026
Owner/Applicant/Developer/Designated Representative Signature

20. I certify that I have conducted the above tests and that the above listed information is in accordance with the latest requirements of the Arkansas Department of Health, Rules and Regulations Pertaining to Onsite Wastewater Systems.

Bud Thornton — DR — Soil Certified ☑ Yes ☐ No
Designated Representative Signature — Title

Bud Thornton	08/21/2026	501-282-7814
Print Name	Date	Phone Number

21. Approval of Health Authority
The information and specifications in this application have been reviewed and found to meet the requirements of the Arkansas Department of Health Rules Pertaining To Onsite Wastewater Systems. A PERMIT FOR CONSTRUCTION is hereby issued.

David Wilson — 331 — 11-12-26
Environmental Specialist Signature — EHS Number — Date

ADH-3313 (R-5/13) Page 1 of 2

Individual Onsite Wastewater System Permit Application

Receipt Number

22. Soil Criteria (Primary Area)			Indicate the depth to items a-f, if observed in the soil (designate in inches)				
a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MSWT	f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (gpd/ft²)
48"	32"	NA	NA	NA	NA	Mod	.75
23. Soil Criteria (Secondary Area)			Indicate the depth to items a-f, if observed in the soil (designate inches)				
a. Bedrock	b. BSWT	c. MSWT	d. LSWT	e. Adj. MSWT	f. Adj. LSWT	g. H.C./Depth	h. Loading Rate (gpd/ft²)
NA	NA	v	NA	NA	NA	Mod	NA

24. Seasonal Water Table (SWT) Classes Detail

Primary Area			List Redoximorphic Features and/or Clay Content Restrictions
Brief	32	in	Chroma 3 Depletions
Moderate	NA	in	NA
Long	NA	in	NA
Secondary Area			List Redoximorphic Features and/or Clay Content Restrictions
Brief	NA	in	NA
Moderate	NA	in	NA
Long	NA	in	NA

Comments: Pump to Primary

Part 2 Installation Inspection

Septic tank manufacturer	Pump information
Septic tank material	Trench media and width
Dose tank manufacturer	Depth of interceptor drain
Dose tank material	Depth of settled fill

Name of Installer	License Number

Installation Inspected by (check one or installer signs System Installation Verification below) ☐ Environmental Health Specialist ☐ Designated Representative (original submitter)

Signature | EHS / License Number | Date

System Installation Verification

I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.

Installer Signature | License Number | Date

Part 3 Permit for Operation

The information contained in Part 1 and 2 of this form has been reviewed and found to meet the requirements of the Arkansas Department of Health. THE PERMIT FOR OPERATION of this system is hereby issued.

Environmental Health Specialist _____ Signature | EHS Number | Date

Comments

Site Revalidation conducted by (check one) ☐ Environmental Health Specialist ☐ Designated Representative (original submitter)

Signature | EHS / License Number | Date

* Optional System Utilization Verification Form

Arkansas Department of Health
Environmental Health Protection

Receipt Number

Individual Onsite Wastewater System Permit Application

Permit Type: ☑ New Installation
☑ Alteration / Repair

OR Environmental ID #

7	6	0	2	1	1	7	1	6	8

☑ Homeowner

☐ Builder/Developer

TO THE PROPERTY OWNER

Onsite Wastewater System Utilization Verification

Property location: 5913 W. Hwy 8, Sparkman, AR 71763
(Address of Proposed System, City, State, Zip)

I hereby attest there are 2 bedrooms (_____ number of persons for commercial) and the square footage of the structure that will utilize the designed onsite wastewater system in this permit application is accurate. I have reviewed the permit application and understand the layout, installation, maintenance, operation and expense(s) that may be associated with this system.

As Developer/Builder, I hereby attest that the above information is correct and prior to the sale of the property, I will convey, to the buyer, all information associated with this system.

Owner/Applicant Signature _____

Date 8/18/26

This document must be submitted with the permit application, if the Owner/Applicant Signature Section (number 19 on the EHP-19) is not signed.

EHP-19, OPT-A (R 9/24)

Final Audit Report

2026-08-19

Created:	2026-08-19
By:	Harold Thornton (bjthornton1233@gmail.com)
Status:	Signed
Transaction ID:	CBJCHBCAABAAKBKCI3M7PFbmFgkJPxZsP6yXPhG6o3

"EHP 19 Opt A 2" History

Document created by Harold Thornton (bjthornton1233@gmail.com)
2026-08-19 - 1:26:28 AM GMT

Document emailed to Greg Jackson (gsj0788@hotmail.com) for signature
2026-08-19 - 1:26:30 AM GMT

Email viewed by Greg Jackson (gsj0788@hotmail.com)
2026-08-19 - 1:57:54 AM GMT

Document e-signed by Greg Jackson (gsj0788@hotmail.com)
Signature Date: 2026-08-19 - 1:59:19 AM GMT - Time Source: server - Signature Appearance Selection: MOBILE_DRAW

Agreement completed.
2026-08-19 - 1:59:19 AM GMT

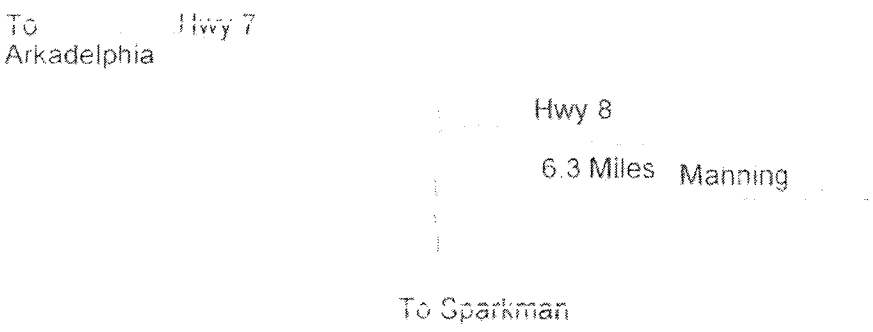
Clark County Health UNIT, 605 S 10th St, Arkadelphia, AR 71923 to 5913 AR-8, Sparkman, AR 71763

Drive 20.5 miles, 27 min

Clark County Health UNIT

1. Head toward S 10th St
   115 ft
2. Turn left onto S 10th St
   0.2 mi
3. Turn right onto Clay St
   479 ft
4. Turn left onto S 9th St
   0.1 mi
5. Turn right onto Caddo St
   0.2 mi
6. Continue straight onto AR 7 S/AR-8 E/Caddo St
   12.6 mi
7. Turn left onto AR-8 E
   6.3 mi

5913 AR-8



Greg Jackson
5913 W. Hwy 8, Sparkman, Ar 71763

Notify ADH prior to Construction

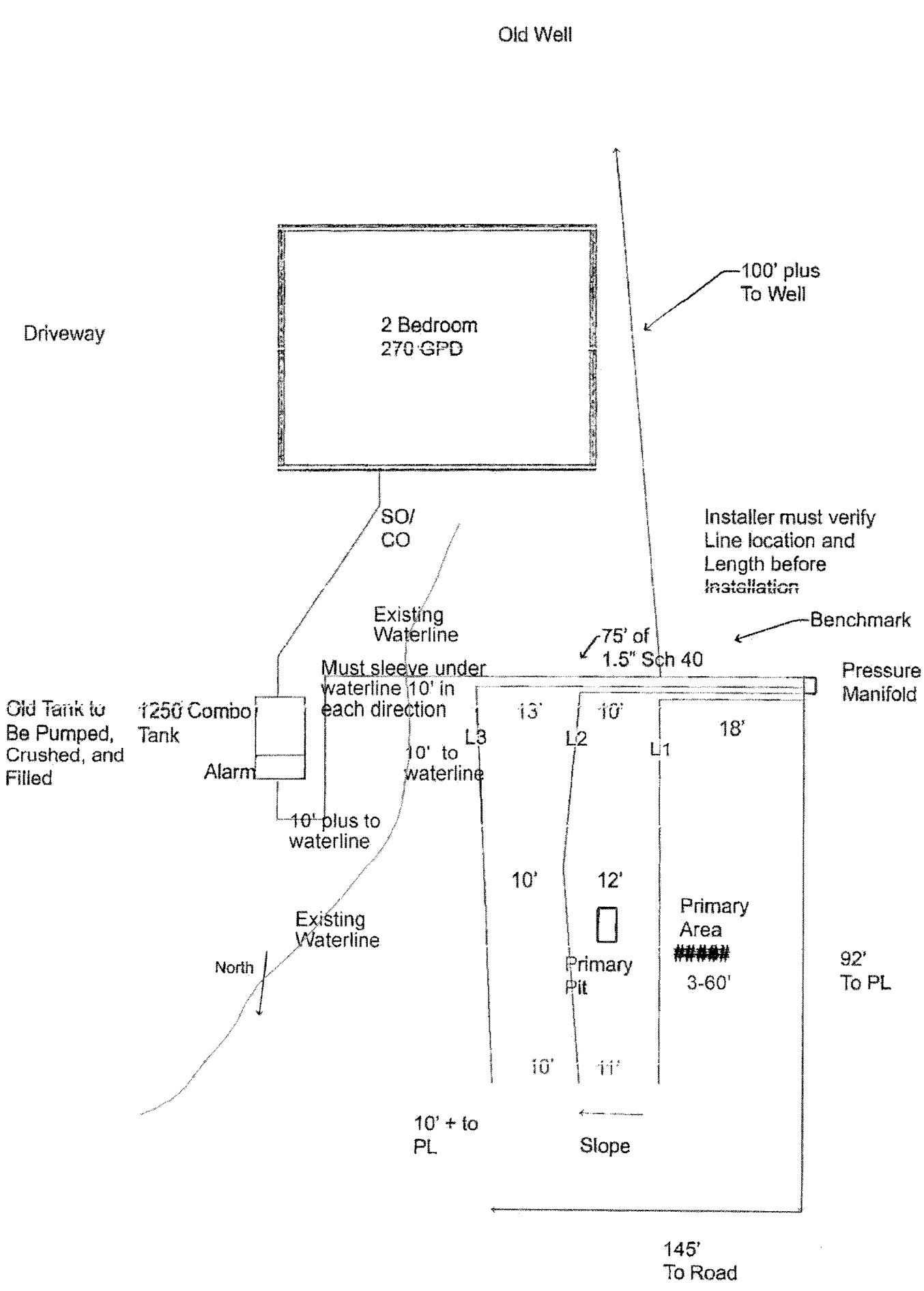
Waterline must be installed at least 10' from any part of the septic system

Install tank risers to surface
Install Pressure manifold riser to surface
Wire in Conduit
Riser
Check Valve
Nema 4x Junction
Must install Effluent filter from septic tank to pump chamber
High water alarm and pump on separate breakers
No product changes without DR approval
Bud Thornton 501-282-7814

ELEVATIONS

Benchmark 4'2"

	Ground Elevations			Flowline
Stubout		7'3"		TBD
Tank In		7'9"		TBD
Tank Out		7'10"		TBD
Pressure Manifold		3'6"		4'6"
	Beg	Mid	End	TB
Line 1	4'6"	4'6"	4'6"	6'
Line 2	5'3"	5'3"	5'3"	6'9"
Line 3	6'1"	6'1"	6'1"	7'7"
Line 4	[illegible]	[illegible]	[illegible]	[illegible]


Old Well
100' plus
To Well
Driveway
2 Bedroom
270 GPD
SO/
CO
Installer must verify
Line location and
Length before
Installation
Existing
Waterline
Benchmark
75' of
1.5" Sch 40
Must sleeve under
waterline 10' in
each direction
Pressure
Manifold
Old Tank to
Be Pumped,
Crushed, and
Filled
1250 Combo
Tank
Alarm
13'
10'
18'
L3
L2
L1
10' to
waterline
10' plus to
waterline
10'
12'
Primary
Area
#####
3-60'
Existing
Waterline
North
Primary
Pit
92'
To PL
10'
11'
10' + to
PL
Slope
145'
To Road

Greg Jackson Pump and Dose Calculation Worksheet

Gallons per day 270 divide by loading rate .75 = 360 sq. feet

Square footage 360 x dose rate .15 = 54 gallons per dose

Gallons per dose 54 divided by 3 minutes per run = 18 gallons per minute

Ground Elevation of Tank 7'9 ÷ "pump off" elevation in dose tank to ground(4.25')
Ground elevation of Discharge Point 3'6"= 8.6' Elevation/Static Head

Force main (Actual Distance to be pumped) 75X 1.20 = 90' Equivalent pipe length

Equivalent pipe length 90' divided by 100 =.90 X 3.1 Pipe Friction loss = 2.8'Friction Head loss

Size of Pipe 1.5"

Total Dynamic Head

Elevation/Static Head 8.6' + Friction Head Loss 2.8' + Residual Head 5' = 16' TDH

Pump Selected Ashland EPF30 or Equivalent (Pump curve and spec sheet attached)

Alarm Selected SPI 2 Breaker Control Panel or Eqv. (Alarm spec sheet attached)

Dose Tank Drawdown (River Valley Concrete)

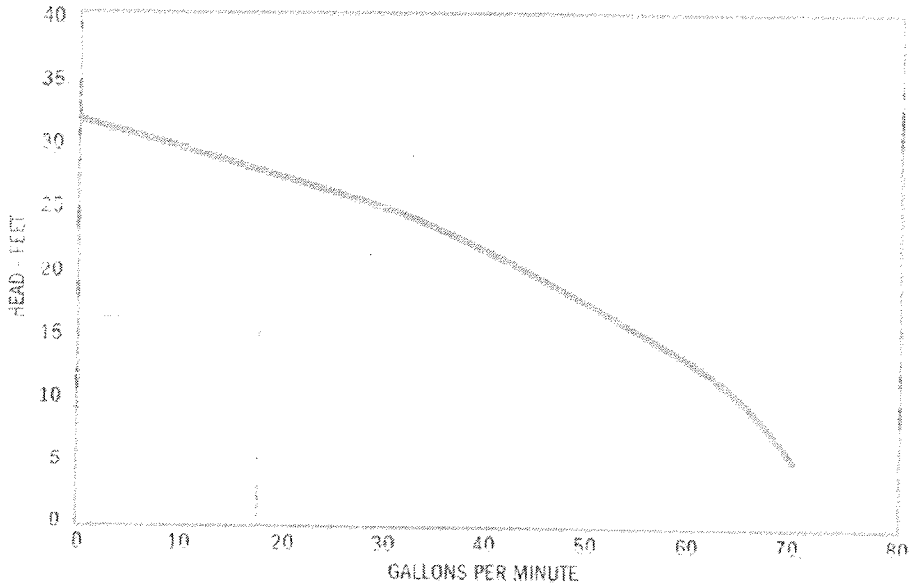
Length X Width X 1" divided by 231 = 6.2 gallons per inch in tank

Gallons per dose 58 divided by 6.2 Gallons per inch = 9" Drawdown per dose

EFFLUENT PUMPS

EPF30

RPM: 3450 Discharge: 2" Solids: 3/4"



Total Lift(feet)	0	5	10	15	20	25	30	32
GPM	75	70	63	56	44	31	9	0

GPM: 18 TDH: 16

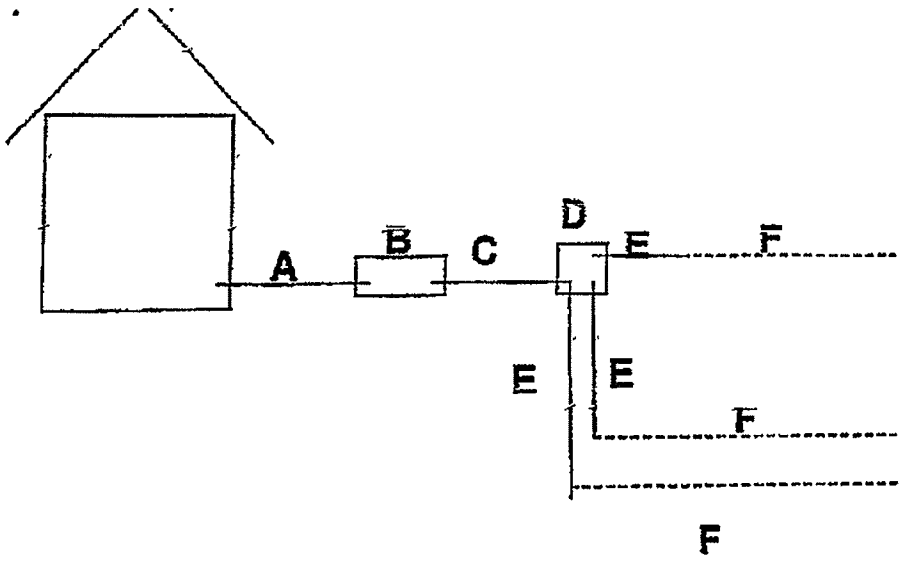
P U M P

Honest, Professional, Dependable

1899 Cottage Street, Ashland, Ohio 44805

Telephone: 855 281-6830 · Fax: 877 326-1994 · ashlandpump.com

PIPE SPECIFICATIONS



	Name	Pipe Approved
A	House Sewer Line	Schedule 40 PVC Schedule 40 ABS Schedule 40 ABS Foam-Core
B	Septic Tank	Schedule 40 Sanitary T's Inlet and outlet
C	Effluent Line	To solid ditch bottom, same as 'A'. Beyond that point must be 'A' or SDR 35 PVC or if polyethylene pipe is used ASTM 3034 P.E.
D	Distribution Box or Valve	
E	Solid Pipe of Field Line	SDR 35 PVC or 'A' or ASTM 3034 P.E.
F	Perforated Field Line	ASTM F810 P.E. ASTM 2729 PVC

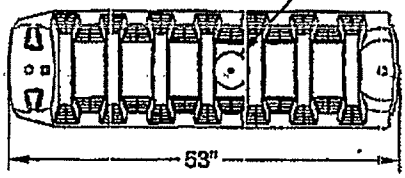
Trench Materials
Pipe and Gravel= 24" wide trench

Chamber Infiltrators
EQ 24= 18" wide trench
EQ 36= 24"wide trench
Quick 4 EQ 24=18" wide trench
Quick 4 EQ 36=24" wide trench

Polystyrene Aggregate
EZ 1003T & EZ 1202 = 24" trench
EZ 1201P=18" trench

INFILTRATOR SYSTEMS INC.
QUICK4 EQUALIZER 24 CHAMBER
PRODUCT SPECIFICATION
(NOT TO SCALE)

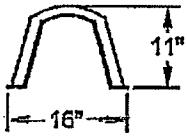
TOP VIEW



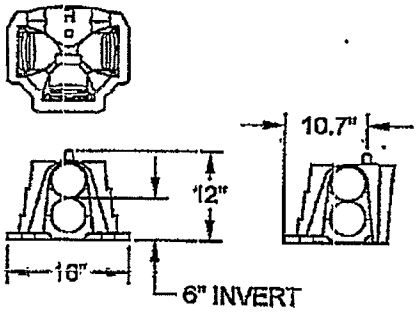
SIDE VIEW



END VIEW



QUICK4 EQUALIZER 24 MULTIPORT END CAP



INFILTRATOR

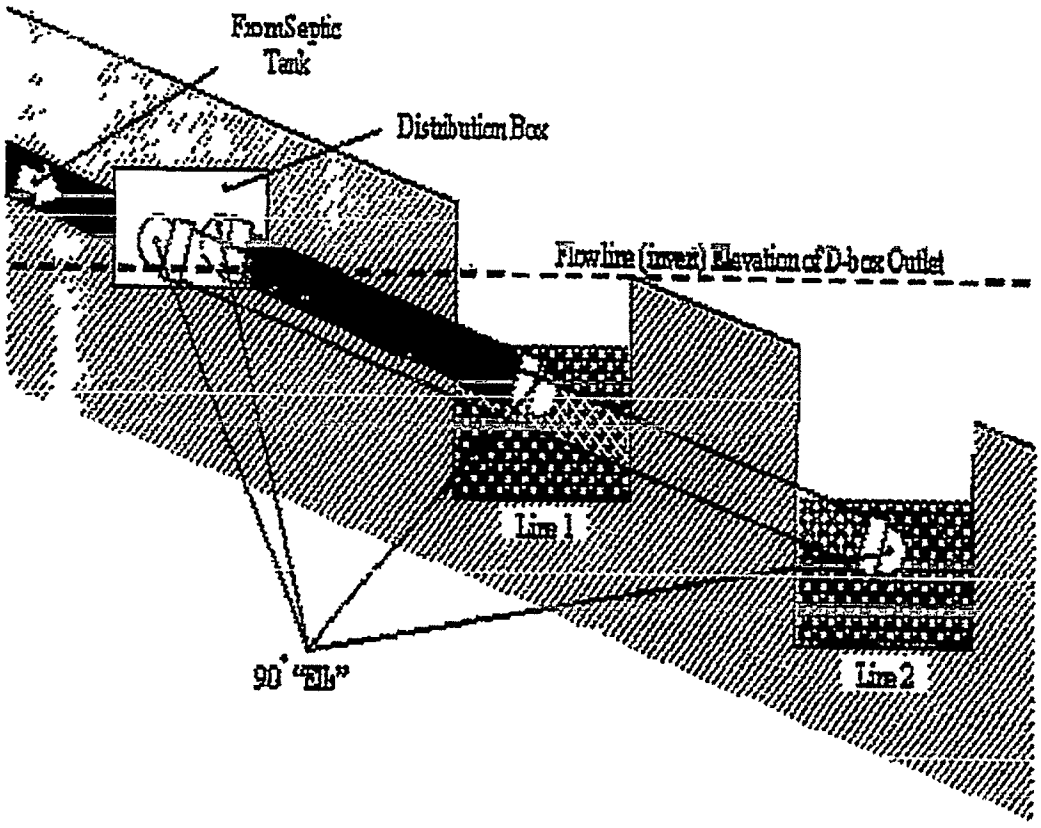
INFILTRATOR SYSTEMS INC.
1 Business Park Rd. Old Saybrook, CT 06475
(800) 221-4600

QUICK4 EQUALIZER 24 CHAMBER
PRODUCT SPECIFICATION

Drawn By: EMD		Date: 07/03/2013
Scale: NOT TO SCALE	Checked By: DFH	Sheet: 1 of 1

Fig. 2

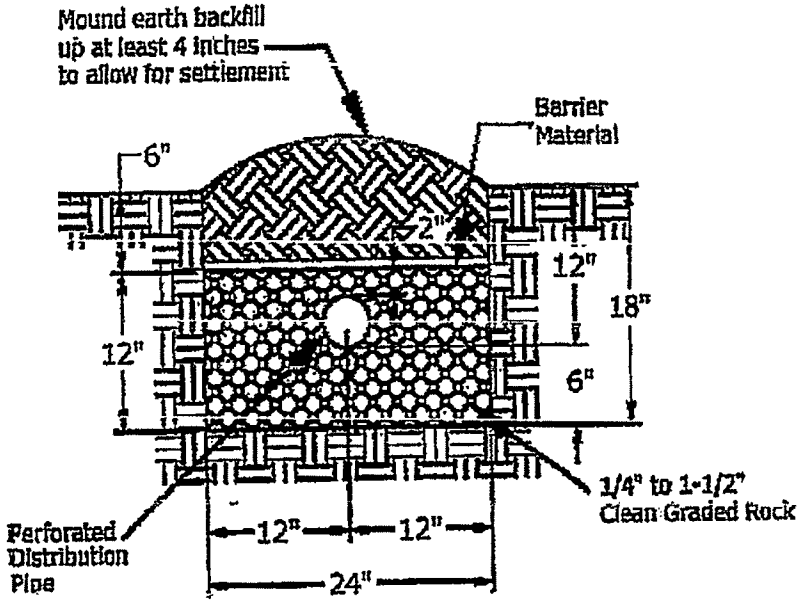
Maximum Storage on Sloping Ground



- Elevation change from the first line to last line is ≥ 6 inches.
- Outlet flow line of D-box is at or above the ground elevation of the highest line of the absorption area.

fig. 9

Lateral Line Trench Detail



18" Trench Depth

Septic System Installation Instructions
Quick4® Equalizer® 24 Chambers

INFILTRATOR systems inc.

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

- ☐ Quick4 Equalizer 24 Chambers
- ☐ MultiPort End Caps
- ☐ PVC Pipe and Couplings
- ☐ Backhoe
- ☐ Laser, Transit, or Level
- ☐ Shovel and Rake
- ☐ Tape Measure
- ☐ Utility Knife
- ☐ 1¼-inch Drywall Screws
- ☐ Screw Gun
- ☐ Hole Saw*
- ☐ Small Valve-Cover Box*
- ☐ 4-inch Cap for Inspection Port*
- ☐ Invert Adapter*

* 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.

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

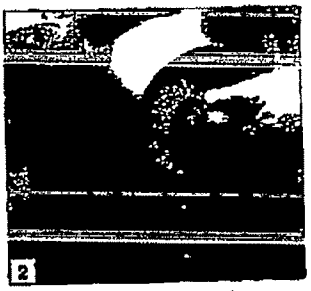
3. Snap off the molded splash plate located on the bottom front of the end cap.

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.)



Start tear-out seal.



Pull tab on tear-out seal.

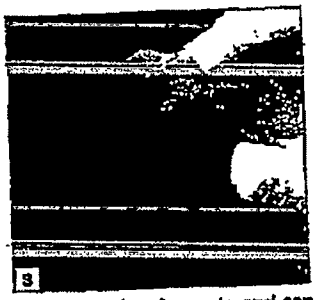
Installing the System

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.

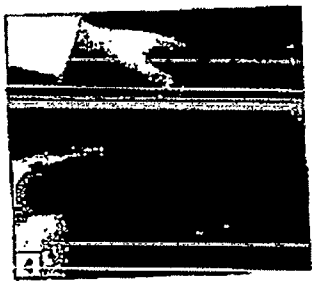
Note: Use the Invert Adapter to achieve a 9" or 10" invert height.

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.



Place first chamber onto end cap.

4. Insert two 1¼" drywall screws on each side of the chambers. Tighten each screw until the end cap is firmly secured to the chamber.



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.

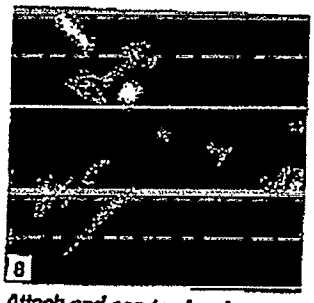
6. Swivel the chamber on the pin to achieve the proper direction for the trench layout.

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. 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 as a function of an onsite waste 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 a use 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 hereunder is limited to the cost of [repair or replacement of] such 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 possible or [unlisted] damages, including loss of production, normal profits, interest and customers, increased 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; [or] the [improper design of the Units or the] septic system due to improper sizing or improper siting, excessive water usage, improper grease disposal, or improper operation; or any other event not caused by Infiltrator. The Limited Warranty shall be void if the Holder fails to comply with all of the terms set forth in the 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 the 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, USA to inquire as to such purchases, to obtain a copy of the applicable warranty, and should carefully read that warranty prior to the purchase of Units.

INFILTRATOR®
systems inc.

1-800-221-4436 • www.infiltratorsystems.com

U.S. Patents 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,119; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents 1,329,958; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quicks and SideWinder are registered trademarks of Infiltrator Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico. Contour, MicroLeaching, Polylok, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SmaLock and StraightLock are trademarks of Infiltrator Systems Inc.
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Health

Keeping Your Hometown Healthy

Basic Electrical Information for Septic Systems Using Pumps, Floats, and Warning Alarms or Control Panels

ALL Aspects of the wiring and electrical system must meet the current National Electrical Code.

- All components of a pumped septic system including: pump vaults, pump chambers, tank draw-downs, pumps, floats and alarms, controls, wiring, conduit, all electrical connections and breakers must be specified with examples included in the design by Designated Representative.
- All septic system electrical work must be performed by an Arkansas licensed Septic System Installer, or an Arkansas licensed Master Electrician.
- Any electrical work inside a building must be performed by the property owner, or an Arkansas licensed Master Electrician.
- All enclosures, panels, breaker boxes or other housings must be NEMA-4X rated with rain-proof and waterproof gaskets and seal offs.
- No exposed plug-in electrical cords are allowed, they must be entirely sealed in a NEMA-4X enclosure to be both gas resistant and water resistant.
- All wire splices and connections must be made with heat shrink-butt connectors, or silicone encapsulated wire nuts.
- All conduit opening s into control boxes, splice boxes, or alarm and breaker boxes must have self-filled seal off kits or plugs.
- All power cable or wire must be UF (underground rated) and of correct gauge for the total amperage and total length of run.
- Any power cable or wire buried 12-inches or less deep must be entirely inside UF (underground rated) conduit of correct size to allow for heat dispersal of the wire.
- The pump must have an individual breaker of correct amperage in line of site to its location.
- The float/alarm set up must have an individual breaker of correct amperage in line of site to its location.
- The main breaker for the entire septic system set up must have amperage at least equal to pump, alarm, or control breakers coming to the main breaker. This main breaker must be labeled and its location noted on the septic system permit/design.
- No deviations from the approved design may be made without prior approval of Designated Representative and Environmental Health Specialist.

Health

Keeping Your Hometown Healthy

Wire Gauge Calculation Chart

[ ] - Indicates wire is insufficient to carry load

*Information provided by Whelan Engineering, Inc.

Maximum Current Draw

	5 Amps	10 Amps	15 Amps	20 Amps	25 Amps	30 Amps	35 Amps	40 Amps	45 Amps	50 Amps
22 AWG	6	3								
20 AWG	9.5	5	3							
18 AWG	15	7.5	5	4	3					
16 AWG	24.5	12	8	6	5	4	3.5	3		
14 AWG	39	19.5	13	9.5	8	6.5	5.5	5	4.5	4
12 AWG	62	31	20.5	15.5	12.5	10.5	9	7.5	7	6
10 AWG	98	49	32.5	24.5	19.5	16.5	14	12.5	11	10
8 AWG	155	78	52	39	31	26	22.5	19.5	17.5	15.5
6 AWG	248.5	124	82.5	62	49.5	41.5	35.5	31	27.5	25
4 AWG	395	197.5	131	98.5	79	66	56.5	49.5	44	39.5
2 AWG	628	314	209	157	125.5	104.5	89.5	78.5	69.5	63

Maximum wire length - measured in feet.

	55 Amps	60 Amps	65 Amps	70 Amps	75 Amps	80 Amps	85 Amps	90 Amps	95 Amps	100 Amps
22 AWG										
20 AWG										
18 AWG										
16 AWG										
14 AWG	3.5	3	3	3						
12 AWG	5.5	5	5	4.5	4	4	3.5	3.5	3.5	3
10 AWG	9	8	7.5	7	6.5	6	6	5.5	5	5
8 AWG	14	13	12	11	10.5	10	9	8.5	8	8
6 AWG	22.5	20.5	19	17.5	16.5	16.5	14.5	14	13	12.5
4 AWG	36	33	30.5	28	26.5	24.5	23	22	21	19.5
2 AWG	57	52.5	48.5	45	42	39	37	35	33	31.5

American Wire Gauge (AWG) - diameter in inches

Gauge	Diameter
0000	0.4600
000	0.4096
00	0.3648
0	0.3249
1	0.2893

Gauge	Diameter
7	0.1443
8	0.1285
9	0.1144
10	0.1019
11	0.0907
12	0.0808
13	0.0720

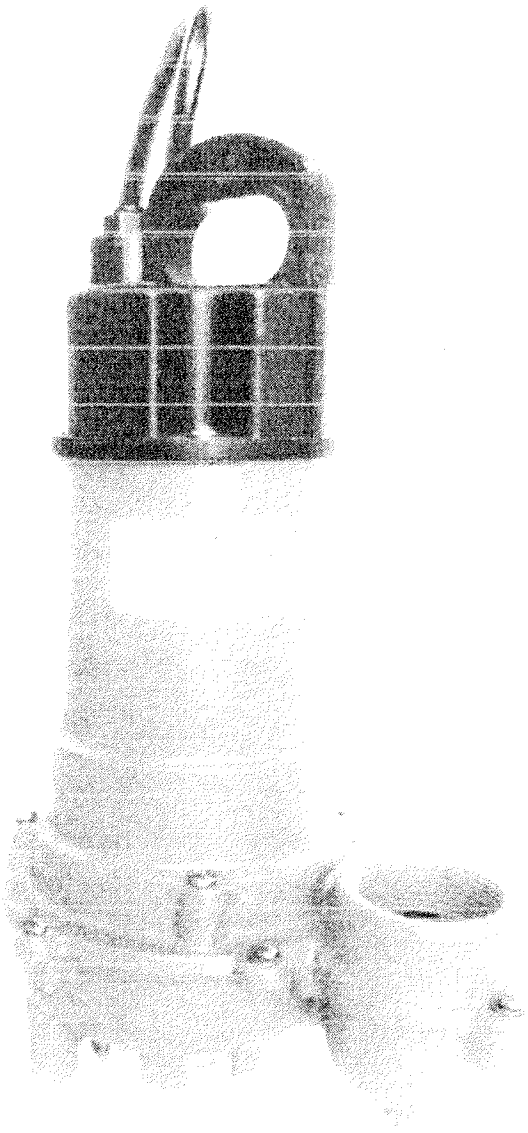
Gauge	Diameter
19	0.0359
20	0.0319
21	0.0285
22	0.0253
23	0.0226
24	0.0201
25	0.0179

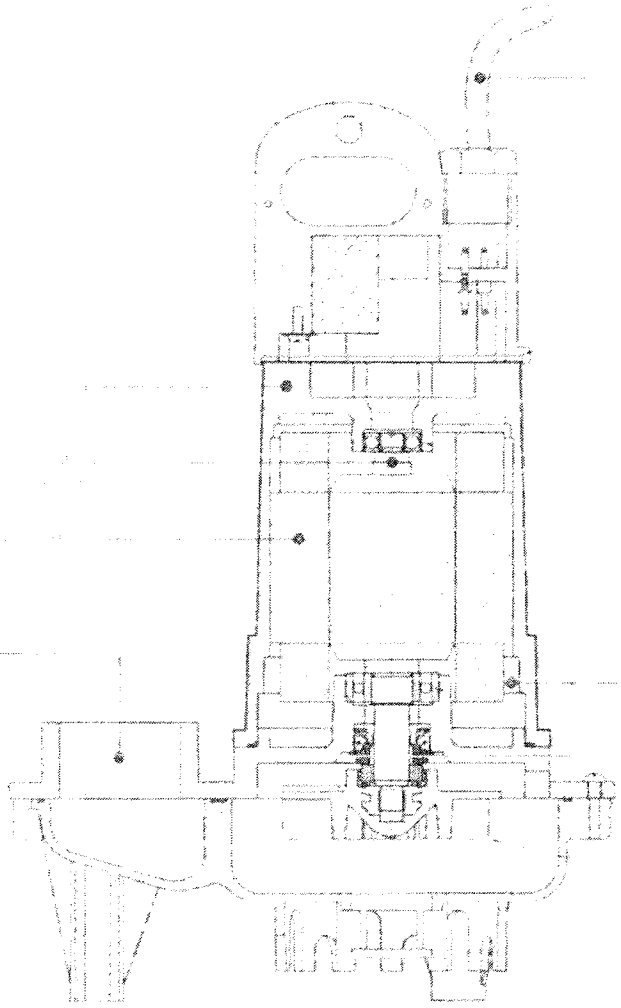
Gauge	Diameter
31	0.0089
32	0.0079
33	0.0071
34	0.0063
35	0.0056
36	0.0050
37	0.0045

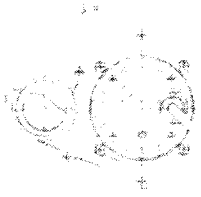
TABLE II

HEADLOSS IN 100 Feet of SCHEDULE 40 PVC PIPE

FLOW RATE GPM	1"	1¼"	1½"	2"	3"
5	1.8	0.6	0.2	0.1	0.01
10	4.8	1.8	0.9	0.3	0.04
15	10.2	3.9	1.8	0.5	0.08
20	17.3	6.7	3.1	0.9	0.14
25	26.2	10.1	4.7	1.4	0.2
30	36.7	14.1	6.7	2.0	0.3
35	48.8	18.7	8.8	2.6	0.4
40	62.5	24.0	11.3	3.4	0.5
45	77.7	29.9	14.1	4.2	0.6
50	94.4	36.3	17.1	5.1	0.7
55	112.7	43.3	20.4	6.1	0.9
60	132.3	50.9	24.0	7.1	1.0
65		58.0	27.8	8.2	1.2
70		67.7	31.9	9.5	1.4
75		76.9	36.3	10.7	1.6
80		86.7	40.9	12.1	1.8







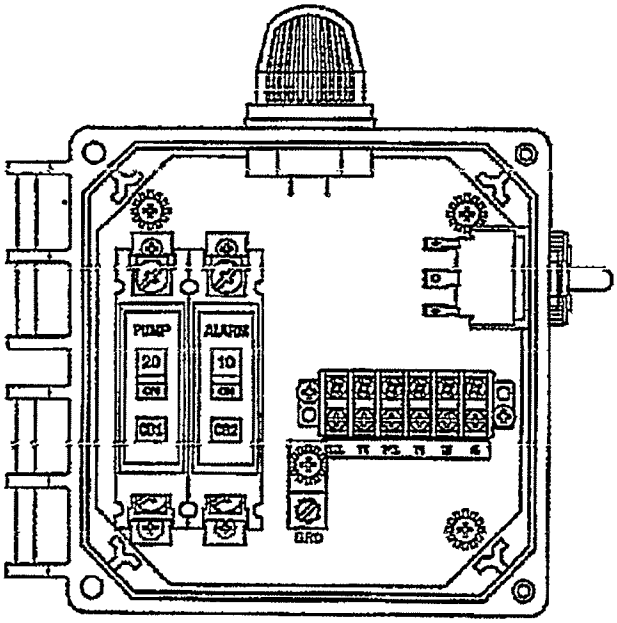
P U M P

CONTROL PANEL

"HWAP" Model Aerobic Control Panel

Features & Benefits

- Circuit Breakers for Pump, & Alarm Circuits
- Easy to Access Terminal Block
- Externally Mounted Run/Mute/Test Switch w/UV resistant sealing boot
- Externally Mounted Audible Alarm
- Rugged UV resistant Externally Mounted Alarm Light
- Durable Weather Resistant Hinged Poly Enclosure
- Ground Lug
- Easily Replaceable Components
- Nema 4x Rating
- Color Coded Internal Wiring
- Built and Labeled to UL 508A Standard
- Works with most Aerobic Treatment Systems
- Provided with Wiring Schematic and Detailed Connection Diagram for Installer
- Mounting Feet for Enclosure



(50B010-BIO-HWAP Shown)

Available Options

- Externally Mounted Pump Test Switch
- Larger Enclosure
- Locking Stainless Steel Latch
- 230 Volt 1 Phase Version
- Mercury or Mechanical Float Switches for the Pump and High Water Alarm Circuits

Note: Consult the factory for other available options. Also some options may require an increase in the enclosure size.

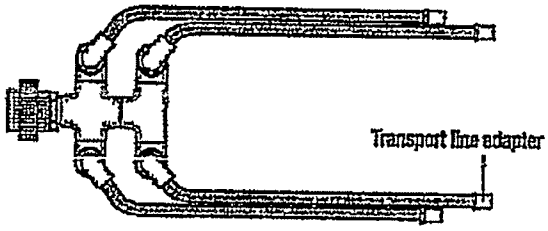
Septic Products, Inc. 1378 Twp Rd Ashland, Ohio 44805 Ph: (419)282-5933 Fax: (419)282-5943

Orenco WATER | Technical Data Sheet

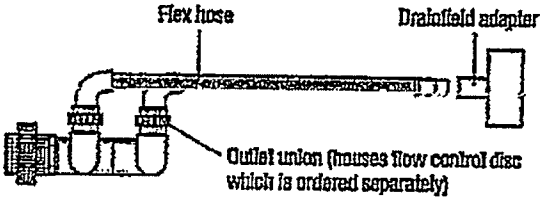
Hydrosplitters

Applications

Orenco Hydrosplitters are used when dosing screened effluent by pump to achieve proper distribution of flow to each lateral, regardless of length, in gravity drainfields.



Orenco's hydrosplitter, top view



Orenco's hydrosplitter, side view

General

Each hydrosplitter is designed to meet the specific needs of a particular drainfield by allowing the installation of a properly sized flow control disc (ordered separately) into each outlet union. Contact Orenco for assistance with flow control disc sizing.

Standard Models

HSA100-04-10, HSA125-06-10

Product Code Diagram

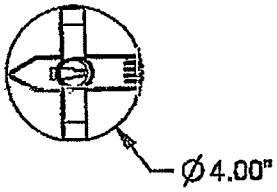
HSA ☐ - ☐ - ☐

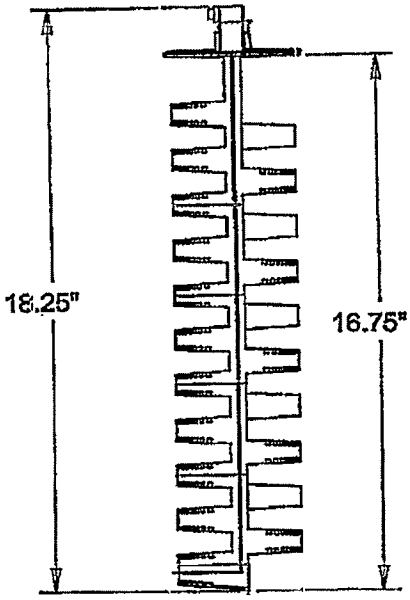
- Hydrosplitter
- Manifold nominal size, in (mm):
  - 100 = 1 (25)
  - 125 = 1 1/4 (32)
  - 150 = 1 1/2 (40)
  - 200 = 2 (50)
- Number of discharge connections installed:
  - 02 = 2
  - 03 = 3
  - 04 = 4
  - 05 = 5
  - 06 = 6
  - 07 = 7
  - 08 = 8
- Discharge connection nominal dia., in (mm):
  - 05 = 1/2 (15)
  - 10 = 1 (25)

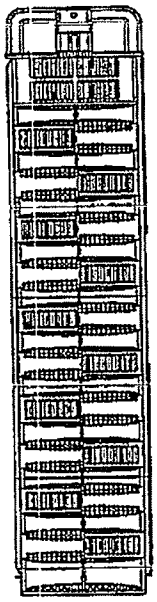
Not all product code configurations may be available as standard products.

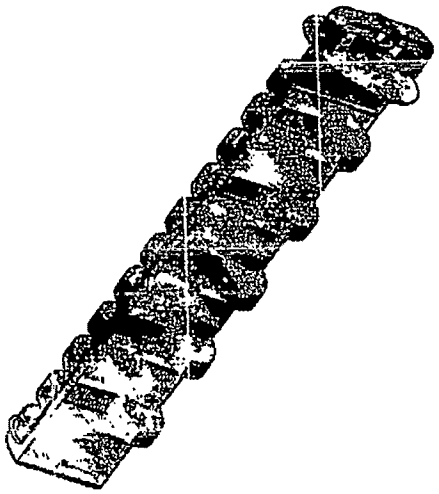
Materials of Construction

PVC fittings	PVC Sch. 40
Unions	PVC Sch. 80
Flexible hose	PVC
Flow control discs	PVC Sch. 80, 1/8in (3mm) thick









Material: High-Impact Polypropylene
Color: Yellow

TUF-TITE®

Drainage and Septic Products

Tuf-Tite, Inc.
1200 Flex Court

TELEPHONE: 847.980.1011
TOLL FREE: 800.382.7009

PART NAME:
4" EFFLUENT FILTER

PART #: EF4

River Valley Concrete Tank Sizes

1000 gallon

59" H x 66" W x 92" L

Up to Inlet 48" Outlet 46"

1250 Gallon

60" H x 66" W x 116" L

Up to Inlet 49 ½ " Outlet 47 ½ "

1250 Combo Tank

6.2 gallons/inch

1500 Gallon

61"H x 67" W x 126" L

Up to Inlet 50" Outlet 48"

River Valley Concrete

501-623-4211

Arkansas Department of Health

Environmental Health Protection

Permit #

Individual Onsite Wastewater System Installation Specifications

(Must be signed and returned to ADH Authorized Agent within five working days.)

TB = Trench Bottom Elevation
PE = Top of Pipe Elevation
GE = Ground Elevation
FL = Flow Line Elevation (Top of Pipe Elev. - 1/2 I.D.)
TE = Tank Lid Elevation

Name of Applicant

Location of System

Name of Installer License #

Septic Tank Size Gal Dose Tank Size Gal Observation Ports Benchmark

Type of System Number and Length of Lines ft ft

Orifice Head ft Pump Rate min sec Pump Test max sec

Trench Width Trench Depth

Size and FL GE

Tank Inlet	FL	GE	TE	Dose Tank Inlet	FL	GE	TE
Tank Outlet	FL	GE	TE	Dose Tank Outlet	FL	GE	TE
D-box Inlet	FL	GE	D-box Outlet	FL	GE	Other Services	GE	PE

Line 1

Line Length Beginning Middle End

	TB	TB	TB
	GE	GE	GE

Line 2

Line Length Beginning Middle End

	TB	TB	TB
	GE	GE	GE

Line 3

Line Length Beginning Middle End

	TB	TB	TB
	GE	GE	GE

Line 4

Line Length Beginning Middle End

	TB	TB	TB
	GE	GE	GE

Receipt No.

Line 5

Line Length	Beginning	Middle	End
	TB	TB	TB
	GE	GE	GE

Line 6

Line Length	Beginning	Middle	End
	TB	TB	TB
	GE	GE	GE

Line 7

Line Length	Beginning	Middle	End
	TB	TB	TB
	GE	GE	GE

Line 8

Line Length	Beginning	Middle	End
	TB	TB	TB
	GE	GE	GE

Line 9

Line Length	Beginning	Middle	End
	TB	TB	TB
	GE	GE	GE

Line 10

Line Length	Beginning	Middle	End
	TB	TB	TB
	GE	GE	GE

Environmental Health Specialist _____ Date _____

I have installed this system as designed and in compliance with all Rules and Regulations Pertaining to Onsite Wastewater Systems.

_____ Installer Signature

_____ License Number

_____ Date