Arc by Infiltrator

DESIGN & INSTALLATION MANUAL – VIRGINIA







Arc™ by INFILTRATOR

AUGUST 2020

INTRODUCTION

This manual provides general design and installation information for use of plastic leaching chambers in the state of in Virginia. The configurations presented in this document are common designs and are provided for illustrative purposes. They are not intended to restrict the use of other configurations, which may be utilized provided the design conforms with the Sewage Handling and Disposal Regulations (12VAC5-610) and/or Alternative Onsite Sewage System Regulations (12VAC5-613) as applicable.

Each revised version of this manual supersedes the previous version. The use of Infiltrator chambers in this manual at regulation sizing is authorized per product approval by the Virginia Department of Health (VDH) and allowed under 12VAC5-610.

All chamber configurations and installations must comply with applicable state and local rules.

CAD details in DWG format may be found on the Infiltrator Water Technologies website at www.infiltratorwater.com.

For more detailed design and installation information, please contact Infiltrator Water Technologies at 1-800-221-4436

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PRODUCT SPECIFICATIONS

Arc 36 System



- 34” wide chamber
- New lightweight design with articulating joints
- AASHTO H–10 load rated with proper installation.
- *See Pages 4-5*

Arc 36 LP System



- 34” wide chamber
- AASHTO H–10 load rated with proper installation.
- *See Pages 6-7*

Arc 24 System



- 22” wide chamber
- New lightweight design with articulating joints and pivot lockout feature
- AASHTO H–10 load rated with proper installation.
- *See Pages 8-9*

Additional products approved for use by VDH

BioDiffuser – 11” Standard
BioDiffuser – 16” High Capacity
BioDiffuser – 15” Bio2
BioDiffuser – 22” Bio3
EnviroChamber – Standard
EnviroChamber – Hi-Capacity
EnvoroChamber – Narrow

ARC 36 SYSTEM

Before beginning installation, please note the following engineered features of the Arc 36 model chambers and endcaps.

Each chamber end is either marked “Dome” or “Post” on the round observation/vent knockout ports.These indicate section of assembly, dome over post.

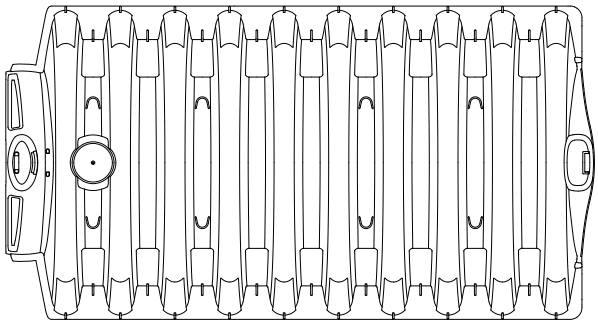
Arc 36 Chamber Specifications	
Length	63”
Effective Length	60”
Overall Width	34”
Invert Height	6.5”
Overall Height	13”

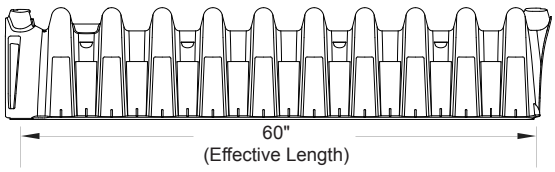
Calculations and dimensions are nominal

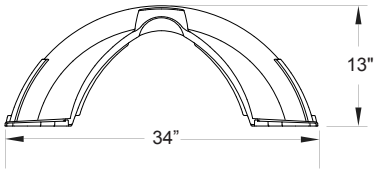


Arc 36 Chamber

Top, Side, and End Views (not to scale)

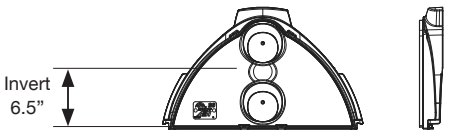






Arc 36 Endcap

Side and End Views (not to scale)



Arc 36 Features

- The post and dome creates a positive lock securing the chambers for final engagement. Lock and drop feature for faster installation.
- The Arc 36 chamber feet are designed with an extra large surface area to provide support, particularly in sandy soils.
- Sidewall louvers are designed to allow effluent to exit the chamber sidewalls in high flow situations, while preventing soils from migrating into the chamber void.
- Observation/venting knockout ports provide for inspection of system performance as well as a convenient location for drain field ventilation pipes.
- Each chamber end has small knockouts on the dome positioned in the "Post" end joint. When removed, these knockouts allow for the use of zip ties to support piping in dosing systems. *See page 15 for preferred method of pressure dosing.*



• Lock and Drop



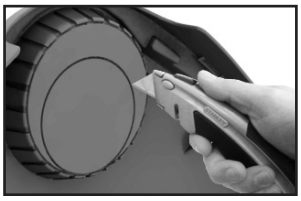
• Louvers and Feet



• Observation Port

Arc 36 Universal Endcap

- Upper and lower knockouts accommodate both Schedule 40 and SDR 35 piping. Knockouts can be removed with a knife or hole saw. Dimples are also offered for the positioning of hole saw pilot drills.
- Endcaps are designed to attach to the chamber's dome or post end in the same fashion for each end with the Arc 36 logo facing outward.





Arc 36 Swivel Feature

- The engagement mechanism of the Arc 36 chamber is designed to allow for a pivot between joined chambers of up to 10° in either direction.



Arc 36 Side Port Coupler (SPC)

- SPC component snaps in place to allow additional pivoting space when used mid-line.



Arc 36 System Configurations

• Trench Installation: Pages 13
• Bed Installation: Page 14
• Additional Configurations: Pages 14-15

ARC 36 LP SYSTEM

Before beginning installation, please note the following engineered features of the Arc 36 LP model chambers and endcaps.

Each chamber end is either marked “Dome” or “Post” on the round observation/vent knockout ports. These indicate direction of assembly, dome over post.

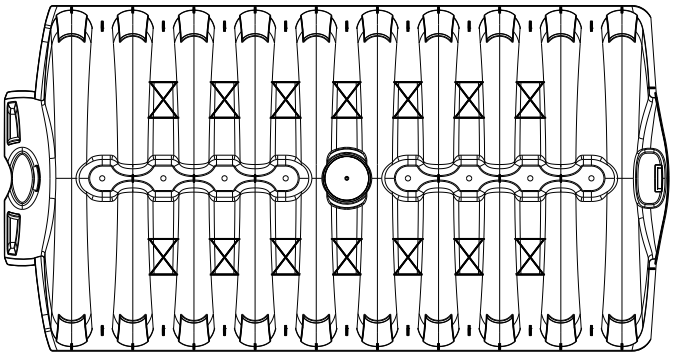
Arc 36 LP Chamber Specifications	
Length	63”
Effective Length	60”
Overall Width	34”
Invert Height	2.4”
Overall Height	8”

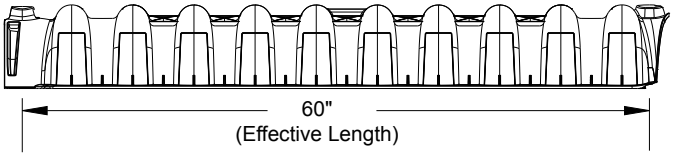
Calculations and dimensions are nominal

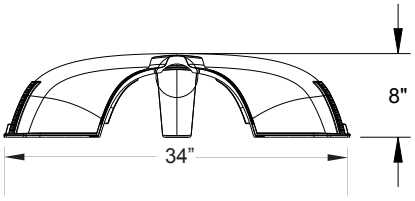


Arc 36 LP Chamber

Top, Side, and End Views (not to scale)







Arc 36 LP Features

The post and dome creates a positive lock securing the chambers for final engagement. Lock and drop feature for faster installation.

- The Arc 36 LP chamber feet are designed with an extra large surface area to provide support, particularly in sandy soils.
- Sidewall louvers are designed to allow effluent to exit the chamber sidewalls in high flow situations, while preventing soils from migrating into the chamber void.
- Observation/venting knockout ports provide for inspection of system performance as well as a convenient location for drain field ventilation pipes.
- The Arc 36 LP employs a central post which creates an exceptionally strong chamber part.
- Arc chambers can be installed to meet an AASHTO H-10 live load (16,000 lbs/axle). Backfilling with a minimum of 12" of properly compacted cover is required for these applications.



• Lock and Drop



• Louvers and Feet



• Observation Port

Arc 36 LP Universal Endcap

- Upper and lower knockouts accommodate both Schedule 40 and SDR 35 piping. Knockouts can be removed with a knife or hole saw. Dimples are also offered for the positioning of hole saw pilot drills.
- Endcaps are designed to attach to the chamber's dome or post end in the same fashion for each end with the Arc 36 logo facing outward.





Arc 36 LP Swivel Feature

- The engagement mechanism of the Arc 36 LP chamber is designed to allow for a pivot between joined chambers of up to 10° in either direction.



ARC 24 SYSTEM

Before beginning installation, please note the following engineered features of the Arc 24 model chambers and endcaps.

Each chamber end is either marked “Dome” or “Post” on the round observation/vent knockout ports. These indicate direction of assembly, dome over post.

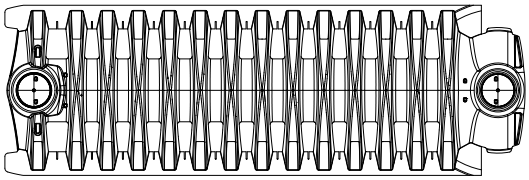
Arc 24 Chamber Specifications	
Length	67”
Effective Length	60”
Overall Width	22”
Invert Height	6.3”
Overall Height	12”

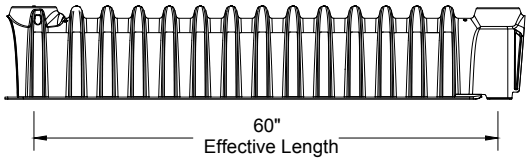
Calculations and dimensions are nominal

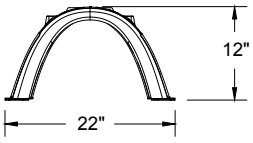


Arc 24 Chamber

Top, Side, and End Views (not to scale)

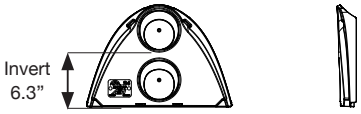






Arc 24 Endcap

Side and End Views (not to scale)



ARC 24 SYSTEM

Arc 24 Features

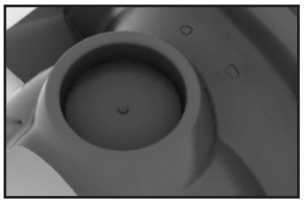
- Base flanges on the chambers ends over lock during final engagement to form a very strong joint.
- The Arc 24 chamber feet are designed with an extra large surface area to provide support particularly in sandy soils.
- Sidewall louvers are designed to allow effluent to exit the chamber sidewalls in high flow situations, while preventing soils from migrating into the chamber void.
- Observation/venting knockout ports provide for inspection of system performance as well as a convenient location for drain field ventilation pipes.
- Each chamber end has small knockouts on the roof positioned in the "Post" end joint. When removed, these knockouts all for the use of zip ties to support piping in low pressure dosing systems. *See page 15 for prefered method of pressure dosing.*



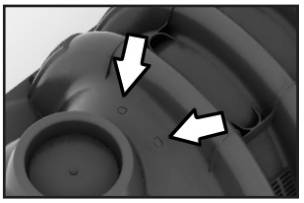
• Overlocking Ends



• Louvers and Feet



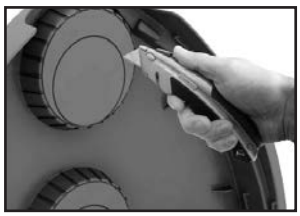
• Observation Port



• Zip Tie Knockouts

Arc 24 Endcap

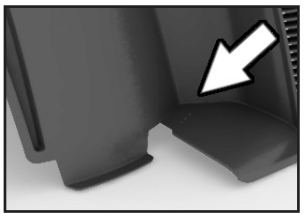
- Upper and lower knockouts accommodate both Schedule 40 and SDR 35 piping in a single hole tap. Dimples are also offered for the positioning of 4.25" hole saw pilot drills.
- Endcaps are designed to attach the chamber's dome or post end in the same fashion for each end with the Arc 24 logo facing outward.

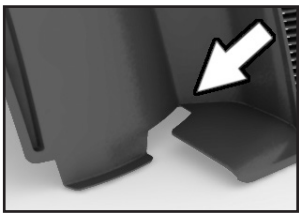




Arc 24 Swivel Feature

- Each chamber's post end has swivel lockout tabs at either base flange. When removed, the incoming chamber will turn up to ten degrees in the direction of the removed lockout tab. Without removal of the swivel lockout tab, the chambers will align in a straight pattern.
- Swivel lockout tabs may be removed with a striking blow to the tab and then pealing off the remaining piece of plastic or cut with a knife.





Arc 24 Side Port Coupler (SPC)

- SPC component snaps in place to allow additional pivoting space when used mid-line.



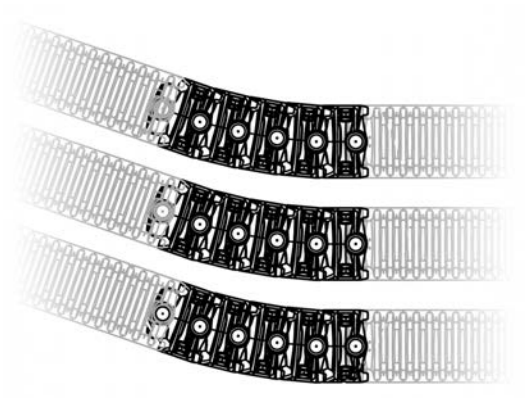
SIDE PORT COUPLER

Included in the Arc chamber line is an accessory called the Side Port Coupler (SPC). Each Arc chamber model has an accompanying SPC.



Function:

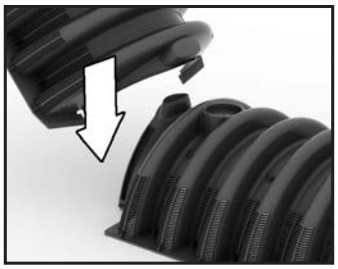
The SPC offers flexibility of pivoting when installed in series between two chambers within the chamber line to allow for increased turning capability.

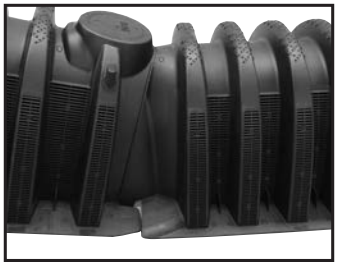


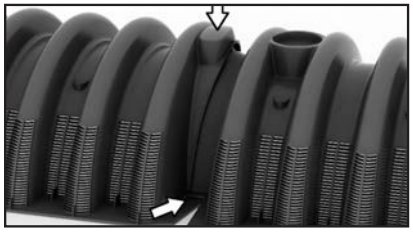
Preparation

- Excavate to proper width and depth as described in the system design or permit and as required by state and local codes.
- Smooth irregularities in the excavation and clear any large rocks or debris from the bottom surface area. Slope of the bottom area shall be determined by the system design, as well as state and local codes.

Installation





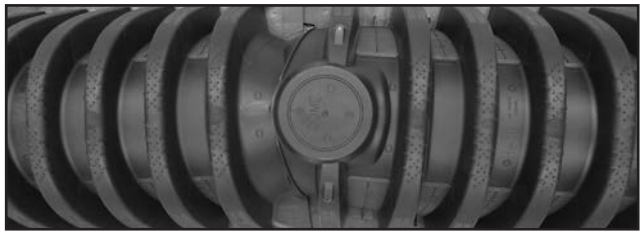


- Installation of the any Arc leaching system begins with laying the first chamber onto the prepared bottom surface area dome end first. Each additional chamber is then laid dome over post by raising the post end of the incoming chamber and slightly pulling the chamber back until the dome stops at the underlying post. As the incoming chamber is laid flat on the bottom, slide the lower base flanges under the raised base flanges of the previously installed chamber.
- As the incoming chamber is lowered down onto the excavation bottom, the two chambers fully engage in a straight-line pattern creating a very strong joint.

Note: *If the following chamber is simply laid onto the preceding chamber the joint will not be fully engaged.*

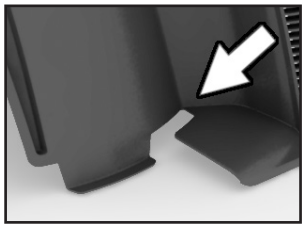
Turns

- The Arc chambers are designed with an articulating joint that allows for a turn of up to 20° of movement with maximum of 10° in either direction.
  Note: *The Arc 24 is designed with lockout tabs.*



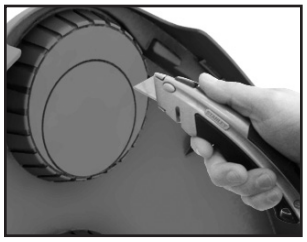
- If a turn application is desired with the Arc 24 chamber, the lockout tab should be removed before installing the incoming chamber. The lockout tab is located at the base flange of the previously–installed chamber (on its “Post” end).
- Strike or cut the lockout tab and tear the remaining tab material away from the chamber.
- If sharper turns are required, 4” pipe and fittings may be used.

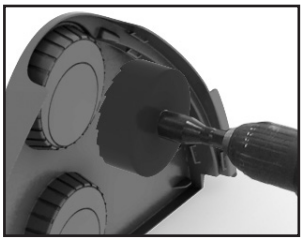




Installation of Endcaps & Pipe Connections

- Prior to installing endcaps, remove the appropriate knockout for pipe connections. Snap an endcap on each end of the drain lines with the product or company logo facing out (knockouts can be removed with a knife or a 4” hole saw).

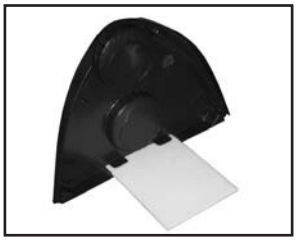




- Upper endcap 4” knockouts — always used as inlet for each line. A four-inch hole saw may be used.

Splash Plates

- Splash plates are mandatory on each inlet endcap for gravity delivery of effluent.
- Company provided splash plates are installed by simply aligning the holes on the splash plate with the corresponding dimples on the endcap and snapping into place.
- Splash plates are used separately.
- A custom “receiving area” is required on all chamber systems where effluent is provided to the system under pressure and splash plates are utilized.
- See page 14 for details.



Filter Fabric

The use of filter fabric is recommended, and be required, in certain soil conditions. If used, drape the fabric to completely cover the louvered sidewalls of the chambers to prevent soil intrusion, while allowing water and air to pass through.

The following single or combination of conditions warrant the use of filter fabric:

- The backfill material is fine or very fine uniform sand.
- The drainfield will be left uncovered.
- The drainfield will not be protected from surface drainage (i.e. downspouts, barrel-tile roofs, paved areas, and neighboring property).

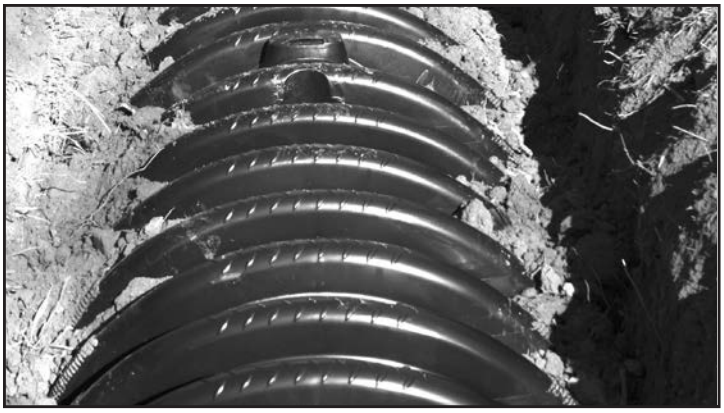
Filter fabric should meet the following specifications and can be purchased from your Infiltrator Water Technologies BioDiffuser distributors:

- Fabric: Spun bonded, made up of nylon fibers, hydrophilic in nature
- Weight: 0.35 – 1 oz/yd^2

Ventilation

Drain field ventilation is recommended, but not required, to allow oxygen to access the drain field especially when cover soil quality is questionable.

- Knockouts are provided on the roof aspect of all Arc chambers. The dome/post feature of the Arc 24 chamber also acts as a knock-out for observation/vent ports. Here a PVC pipe may be introduced into the chamber and vented to atmosphere.
- Make certain the vent is assembled in such a fashion as to prevent rainwater from entering, effluent from exiting the chamber line.
- Several outlet products are available for this purpose.



Backfill

- Modestly compact the sidewall area backfill material by simply walking down the sides of the chambers. Sidewall compaction is important to begin the stabilization process of the soil, to support the chamber sidewalls, and help prevent fine sand migration into the chamber louvers. This procedure may be accomplished any time during the installation or covering process.



- All Arc chambers are AASHTO H-10 load rated. Where vehicular loading is anticipated during installation of the system or construction of the facility, AASHTO H-10 loading (16,000 lbs/axle) is achieved by backfilling with a minimum of 12” of properly compacted cover.
- Do not drive heavy equipment over a system comprised of non-compacted cover material without first bridging the excavation. Use lightweight or tracked equipment to push the soil onto the system to the proper height set forth by local and state codes.

Final Grade

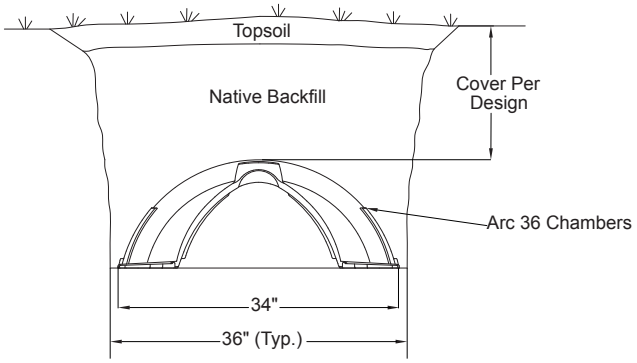
- Make certain that storm water is diverted away from the drain field. System final grade should be crested or sloped, never left flat or concave. Channel water away from the drain field.
- Final grading subcontractors and landscapers should be alerted and instructed to proper covering procedures, cover materials, and finish contours and elevations.
- Final grade material should be slightly to moderately limited soil to help maintain an aerobic state in the drain field.
- Stabilize the drain field area with grass-type vegetation prior to heavy rains if possible.

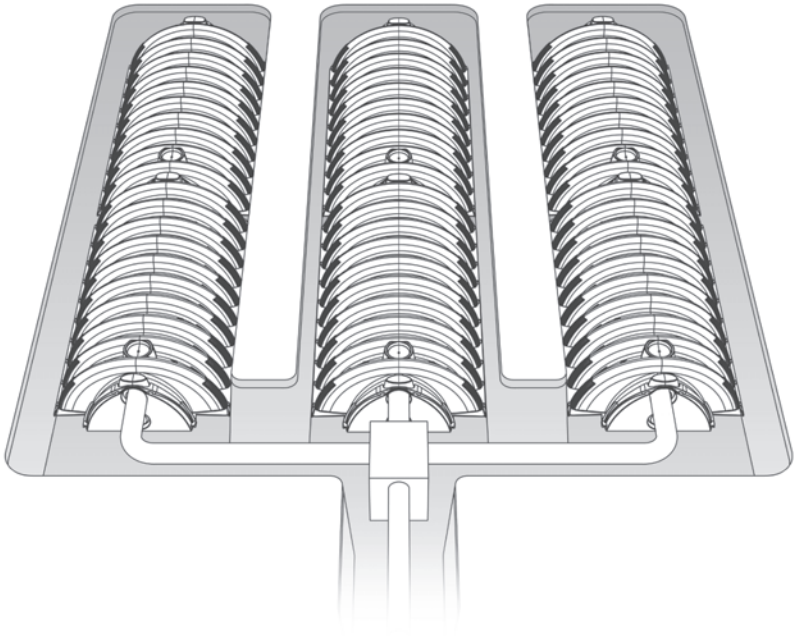
Trench System

The typical installation is utlized on level sites.

Typical Trench: Cross-Section

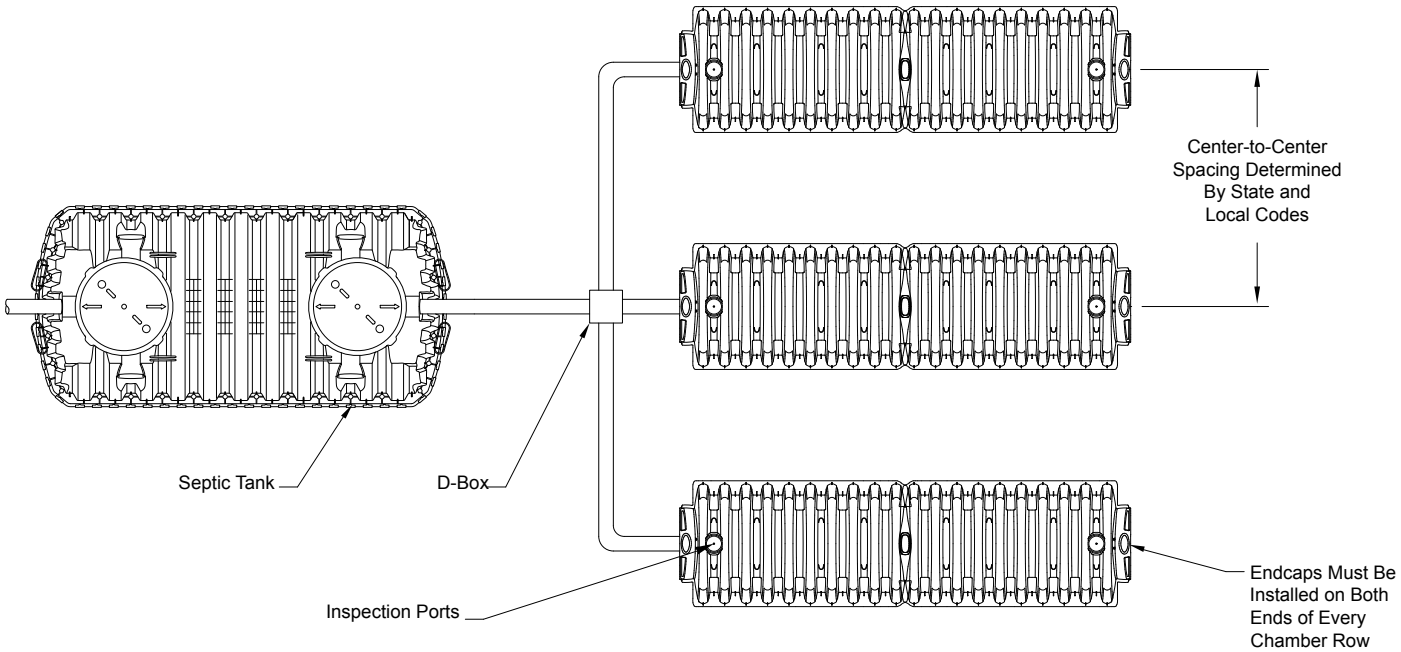
Typical (not to scale)





Typical Trench: Plan View

Typical (not to scale)



Notes:

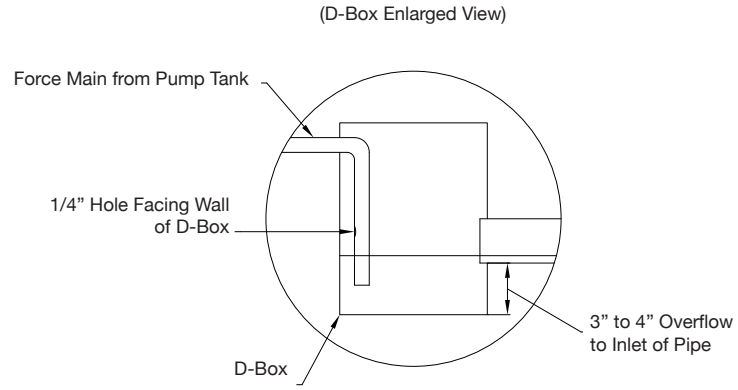
1. System configuration applies to other VDH-approved chamber models.
2. Infiltrator recommends the use of standard flow systems rather than enhanced flow systems.
3. Approved chambers are for non-traffic applications, but are capable of withstanding AASHTO H-10 loadings with 12" of cover minimum.

ADDITIONAL SYSTEM CONFIGURATIONS

Pump Systems: Pump to D-Box

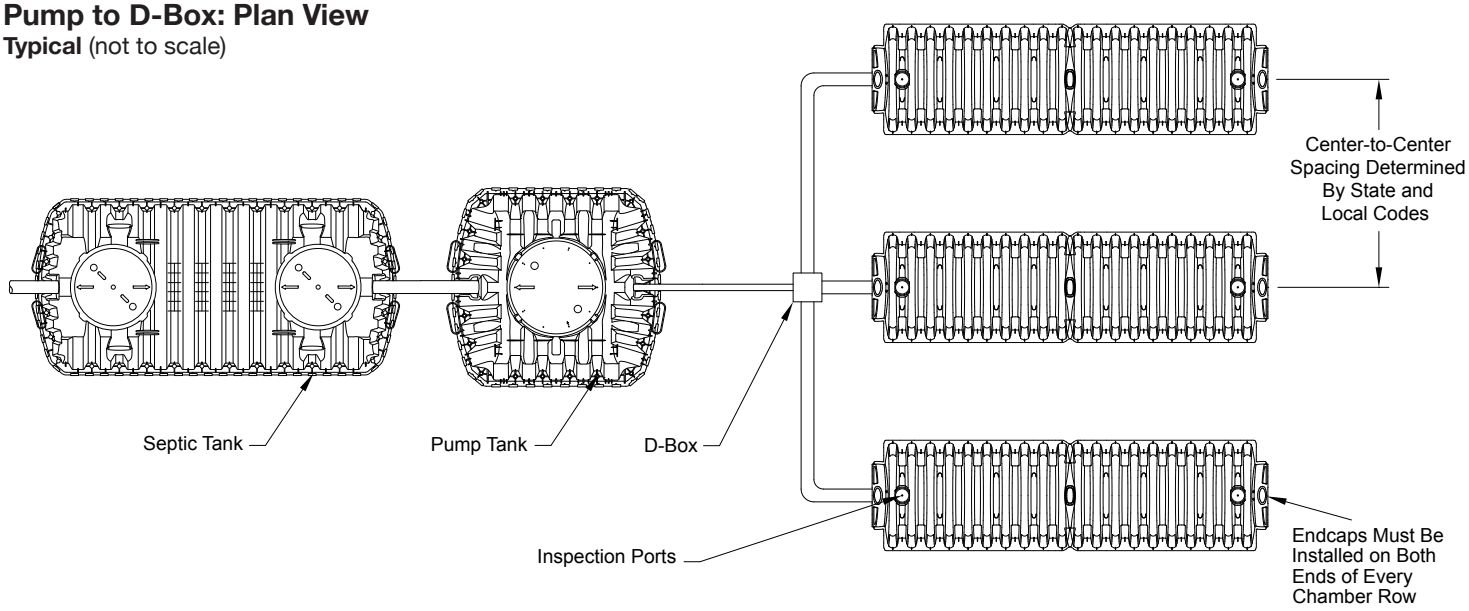
Pump to D-Box: Section View

Typical (not to scale)



Pump to D-Box: Plan View

Typical (not to scale)

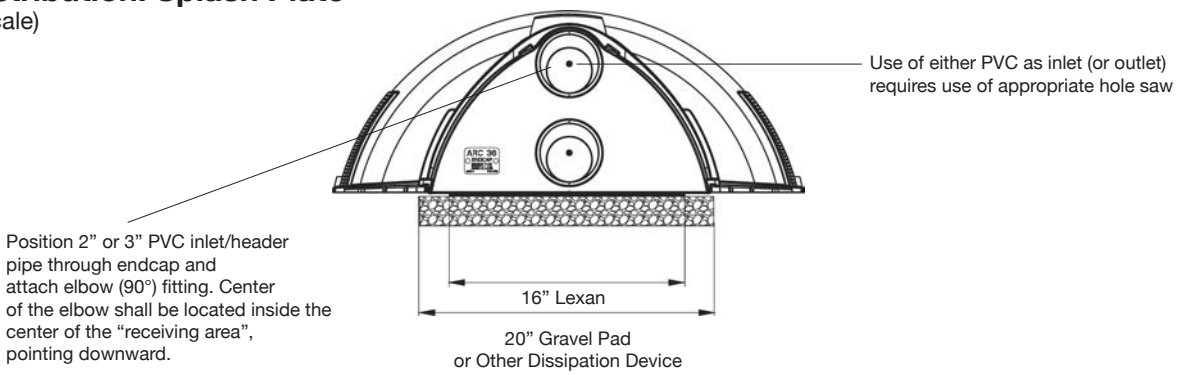


Pump Systems: Pressure Distribution

Approved pressure distribution device methods include a pressure manifold and flow splitter.

Pressure Distribution: Splash Plate

Typical (not to scale)



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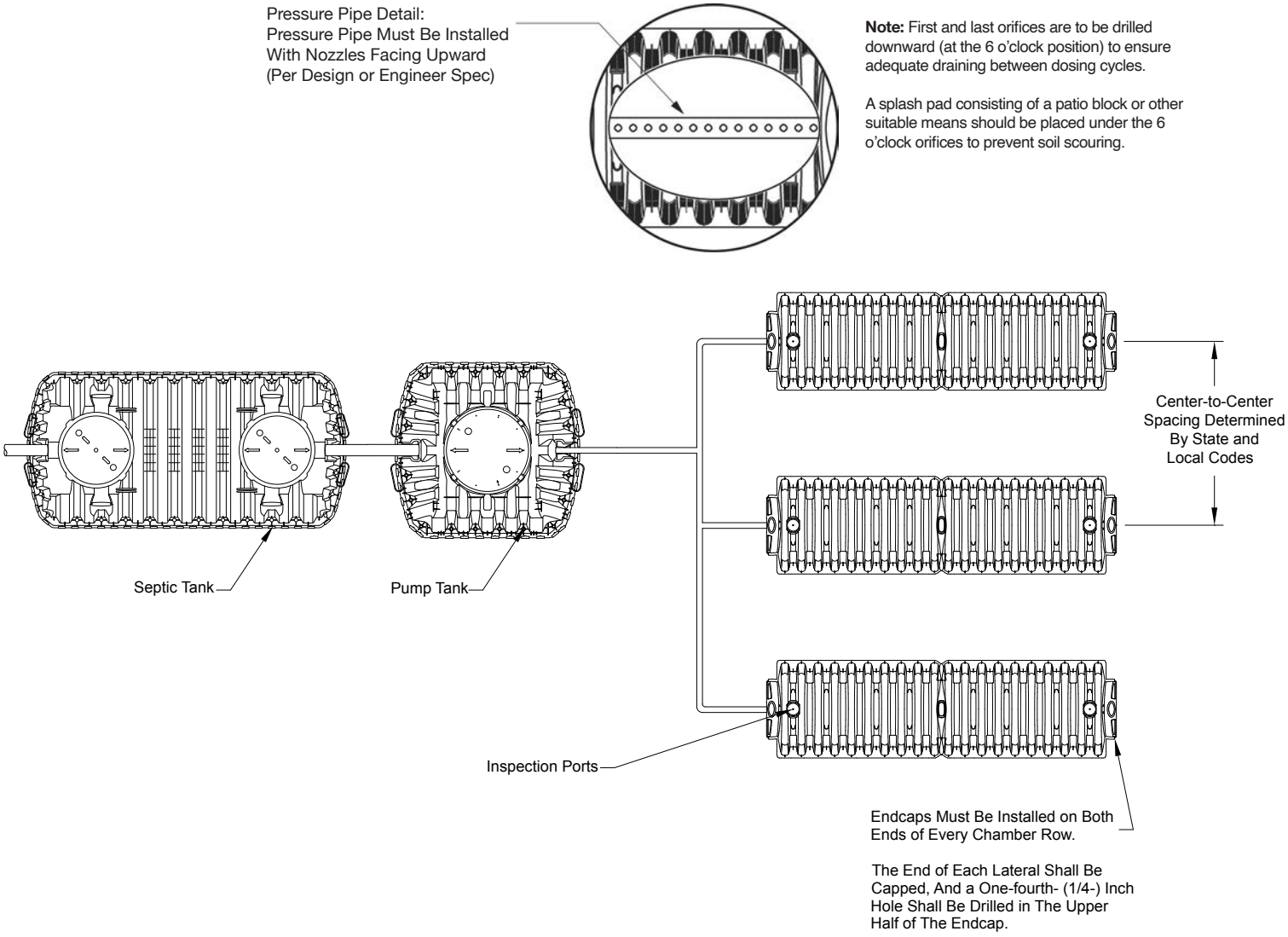
3. Approved chambers are for non-traffic applications, but are capable of withstanding AASHTO H-10 loadings with 12" of cover minimum.

Low Pressure Distribution System

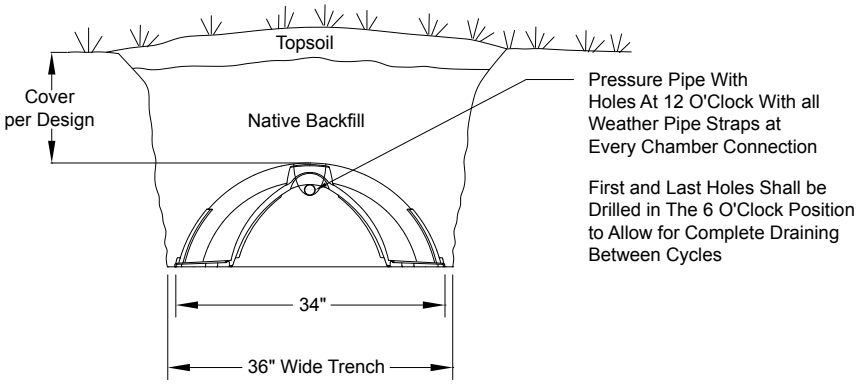
Pressure Dosing: Plan View with Detail

Typical (not to scale)



Pressure Distribution: Pipe Support Installation Cross-Section

Typical (not to scale)



Notes:

1. System configuration applies to other VDH-approved chamber models.
2. Infiltrator recommends the use of standard flow systems rather than enhanced flow systems.
3. Approved chambers are for non-traffic applications, but are capable of withstanding AASHTO H-10 loadings with 12" of cover minimum.

SYSTEM SIZING – GENERAL

Table 1 below represents Table 5.4 of the Sewage Handling and Disposal Regulations (12VAC5-610, as amended January 2, 2014). This table establishes minimum area requirements for absorption trenches, including gravelless materials such as Arc chambers. Table 1 provides regulation sizing for gravity and low-pressure distribution applications.

Table 1. 12VAC5-610-950 Table 5.4 - Regulation Sizing for Absorption Trenches

Percolation Rate (minutes/inch)	Area Required (ft²/100 gals)			Area Required (ft²/bedroom)		
	Gravity Gravel and Pipe	Gravity Gravelless Arc Chambers	Low Pressure Distribution[1]	Gravity Gravel and Pipe	Gravity Gravelless Arc Chambers	Low Pressure Distribution[1]
5	110	83	110	165	124	165
10	120	90	120	180	135	180
15	132	99	132	198	149	198
20	146	110	146	218	164	218
25	158	119	158	237	178	237
30	174	131	164	260	195	255
35	191	143	170	286	215	260
40	209	157	176	314	236	264
45	229	172	185	344	258	279
50	251	188	193	376	282	293
55	275	206	206	412	309	309
60	302	227	217	452	339	325
65	331	248	228	496	372	342
70	363	272	240	544	408	359
75	398	299	251	596	447	375
80	437	328	262	656	492	394
85	479	359	273	718	539	409
90	525	394	284	786	590	424
95	575	489	288	862	733	431
100	631	536	316	946	804	473
105	692	588	346	1,038	882	519
110	759	645	379	1,138	967	569
115	832	707	416	1,248	1,061	624
120	912	775	456	1,368	1,163	684

NOTES:
1. Low-pressure distribution applicable to chambers and gravel and pipe.
2. The minimum absorption area required for any system is 400 sf.

CHAMBER SYSTEM SIZING METHODOLOGY:
1. Determine the minimum trench length required by dividing the minimum area required in Table 1 by 3 feet for the Arc 36 and Arc 36 LP chambers and 2 feet for the Arc 24 chambers.
2. Determine the total trench length required by multiplying the trench length per bedroom by the total number of bedrooms.
3. Determine the number of chambers required by dividing the total trench length required by the 5-foot engaged chamber length and rounding up (chambers cannot be cut).
4. The design trench length is determined by multiplying the number of chambers to be installed in each trench times the 5-foot chamber length and adding the lengths of the endcaps.

SYSTEM SIZING – GRAVITY

Regulation sizing may be utilized on any site that meets VDH requirements for conventional systems in accordance with Table 2.

Table 2. Regulation Sizing

Percolation Rate (minutes/inch)	Ksat (cm/d)	Soil Texture Group	Gravity Gravel-less Trench Bottom Area Required per Bedroom (sf)	Minimum Requirement Per Bedroom			
				Arc 36 and Arc 36 LP (34"Wx60"L)		Arc 24 (22"Wx60"L)	
				Trench Length (lf)	Number of Chambers	Trench Length (lf)	Number of Chambers
Up to 16	>17.4	I	149	50	10	75	15
20	15.9 - 17.4	IIa	164	55	11	85	17
25	14.6 - 15.9	IIa	178	60	12	90	18
30	13.3 - 14.6	IIa	195	65	13	100	20
35	12.0 - 13.3	IIb	215	75	15	110	22
40	11.0 - 12.0	IIb	236	80	16	120	24
45	10.0 - 11.0	IIb	258	90	18	130	26
50	9.1 - 10.0	III	282	95	19	145	29
55	8.3 - 9.1	III	309	105	21	155	31
60	7.6 - 8.3	III	339	115	23	170	34
65	6.9 - 7.6	III	372	125	25	190	38
70	6.4 - 6.9	III	408	140	28	205	41
75	5.8 - 6.4	III	447	150	30	225	45
80	5.2 - 5.8	III	492	165	33	250	50
85	4.8 - 5.2	III	539	180	36	270	54
90	4.4 - 4.8	III	590	200	40	295	59
95	4.0 - 4.4	IV	733	245	49	370	74
100	3.6 - 4.0	IV	804	270	54	405	81
105	3.3 - 3.6	IV	882	295	59	445	89
110	3.0 - 3.3	IV	967	325	65	485	97
115	2.6 - 3.0	IV	1,061	355	71	535	107
120	2.2 - 2.6	IV	1,163	390	78	585	117

NOTES:
1. Number of chambers is determined based on absorption area requirements in 12VAC5-610-950 Table 5.4. (Table 1, Page 19 herein)
2. The minimum absorption area required for any system is 400 sf.

Soil Texture Description
I - Sand and loamy sand
II - Sandy loam, loam, and sandy clay loam
IIa - Sandy loam, perc rate < 31 mpi only
IIb - Remainder of soils in Group II
III - Silt loam, clay loam, silty clay loam
IV - Sandy clay, silty clay, clay

NOTE: *The products listed on Page 3 are also approved for use by the VDH. Their sizings are available by calling Infiltrator Water Technologies' Technical Services Department.*

SYSTEM SIZING – LOW-PRESSURE DISTRIBUTION

Regulation sizing may be utilized on any site that meets VDH requirements for low-pressure distribution systems in accordance with Table 3.

Table 3. Regulation Sizing

Percolation Rate (minutes/inch)	Ksat (cm/d)	Soil Texture Group	Low Pressure Trench Bottom Area Required per Bedroom (sf)	Minimum Requirement Per Bedroom			
				Arc 36 and Arc 36 LP (34"Wx60"L)		Arc 24 (22"Wx60"L)	
				Trench Length (lf)	Number of Chambers	Trench Length (lf)	Number of Chambers
Up to 16	>17.4	I	198	70	14	100	20
20	15.9 - 17.4	IIa	218	75	15	110	22
25	14.6 - 15.9	IIa	237	80	16	120	24
30	13.3 - 14.6	IIa	255	85	17	130	26
35	12.0 - 13.3	IIb	260	90	18	130	26
40	11.0 - 12.0	IIb	264	90	18	135	27
45	10.0 - 11.0	IIb	279	95	19	140	28
50	9.1 - 10.0	III	293	100	20	150	30
55	8.3 - 9.1	III	309	105	21	155	31
60	7.6 - 8.3	III	325	110	22	165	33
65	6.9 - 7.6	III	342	115	23	175	35
70	6.4 - 6.9	III	359	120	24	180	36
75	5.8 - 6.4	III	375	125	25	190	38
80	5.2 - 5.8	III	394	135	27	200	40
85	4.8 - 5.2	III	409	140	28	205	41
90	4.4 - 4.8	III	424	145	29	215	43
95	4.0 - 4.4	IV	431	145	29	220	44
100	3.6 - 4.0	IV	473	160	32	240	48
105	3.3 - 3.6	IV	519	175	35	260	52
110	3.0 - 3.3	IV	569	190	38	285	57
115	2.6 - 3.0	IV	624	210	42	315	63
120	2.2 - 2.6	IV	684	230	46	345	69

NOTES:
1. Number of chambers is determined based on absorption area requirements in 12VAC5-610-950 Table 5.4. (Table 1, Page 19 herein)
2. The minimum absorption area required for any system is 400 sf.

Soil Texture Description
I - Sand and loamy sand
II - Sandy loam, loam, and sandy clay loam
IIa - Sandy loam, perc rate < 31 mpi only
IIb - Remainder of soils in Group II
III - Silt loam, clay loam, silty clay loam
IV - Sandy clay, silty clay, clay

NOTE: *The products listed on Page 3 are also approved for use by the VDH. Their sizings are available by calling Infiltrator Water Technologies' Technical Services Department.*

INFILTRATOR WATER TECHNOLOGIES STANDARD LIMITED WARRANTY

(a) The structural integrity of each chamber, endcap and other accessory manufactured by Infiltrator (collectively referred to as "Units"), when installed and operated in a leachfield of an onsite septic system in accordance with Infiltrator's installation instructions, is warranted to the original purchaser ("Holder") against defective materials and workmanship for one year from the date upon which a septic permit is issued for the septic system containing the Units; provided, however, that if a septic permit is not required for the septic system by applicable law, the one (1) year warranty period will begin upon the date that installation of the septic system commences. In order 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 those Units determined by Infiltrator to be defective and 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 (chamber, endcap or other accessory) 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 this Limited Warranty in any manner whatsoever, or to 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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U.S. Patents: 4,759,661; 5,017,041; 5,156,488; 5,336,017; 5,401,116; 5,401,459; 5,511,903; 5,716,163; 5,588,778; 5,839,844 Canadian Patents: 1,329,959; 2,004,564 Other patents pending. Infiltrator, Equalizer, Quick4, and SideWinder are registered trademarks of Infiltrator Water Technologies. Infiltrator is a registered trademark in France. Infiltrator Water Technologies is a registered trademark in Mexico. Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Water Technologies.
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