## Infiltrator IM- and TW-Series Septic Tank General Installation Instructions

## **BEFORE YOU BEGIN**

Infiltrator Systems' tanks must be installed according to state and/or local regulations, which supersede the manufacturer's installation instructions. If unsure of the installation requirements for a specific site, contact the health department or permitting authority. The IM-Series referred to in this document includes the IM-540, IM-1060, and IM-1530 tanks. The TW-Series includes the TW-1250 and TW-1500 tanks.

#### WARNING: IMPLOSIONS MAY CAUSE SERIOUS INJURY Follow Infiltrator Systems Inc. vacuum test instructions

## MATERIALS AND EQUIPMENT NEEDED

🗆 Infiltrator tank	□ Shovel
□ Access port lid(s)*	
□ 10 screws per lid*	🗆 5-inch-diameter (125 mm)
□ 2 inlet/outlet gaskets	hole saw (IM-Series only)
(included)	🗆 5.25-inch-diameter (133 mm)
Inlet/outlet tees*	hole saw (TW-Series only)
Tape measure	🗆 Utility knife
□ Pipe, risers, etc.	$\Box$ PVC pipe glue with primer
□ Socket wrench	*tee and lid inclusion varies by
Excavator	state/province

## INSTALLATION SITE SELECTION

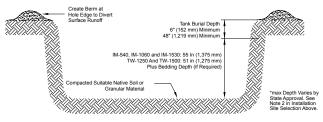
- 1. Do not install the tank in vehicular traffic areas. The tank is designed for non-traffic applications.
- 2. The allowable soil cover depth is 6 to 48\* inches (150 to 1.200 mm). \*18-inch (450 mm) max. in Florida for Cat. 3 IM- and TW-Series tanks; 48-inch (1,200 mm) max. in Florida for Cat. 4 IM-Series tanks; 36-inch (900 mm) max. in Massachusetts, New Hampshire, North Carolina, and Oregon.
- 3. The tank shall not be installed where the subsurface water level outside the tank exceeds the height of the outlet pipe saddle. Follow Table 4 guidelines.

#### EXCAVATING AND PREPARING THE SITE

- 1. Unless buoyancy control measures are required, the excavation width and length should be 18 to 36 inches (450 to 900 mm) larger than the tank on each side or sized as necessary to ensure proper backfill compaction, as outlined in Steps 5-10 of "Backfilling the Tank" in this document. See Infiltrator IMand TW-Series Tank Buoyancy Control Guidance document, available online at www.infiltratorsystems.com, for specific excavation requirements when installing buoyancy control measures.
- 2. Excavation depth shall account for the height of tank (55 inches (1,375 mm) for the IM-Series tanks and 51 inches (1,275 mm) for the TW-Series tanks). Also account for 4 inches (100 mm) of bedding (if required) and cover depth (permissible cover depth is 0.5 to 4 feet (150 to 1,200 mm) of soil).

Note: If the water level outside the tank exceeds the height of the outlet pipe saddle, tank structural integrity may be compromised. Follow Table 4 guidelines.

- 3. Inspect bottom of excavation to verify suitability of native soil for tank installation. Soils with large, protruding, or sharp stones or other similar objects that may damage the tank are not suitable.
- 4. The tank may be installed either in suitable native soil (see Backfilling the Tank section) or a minimum 4-inch (100 mm) layer of well-graded granular soil having particles less than 3 inches (75 mm) in diameter, or maximum 0.5-inch (13 mm) diameter crushed stone.
- 5. Create a uniform, compacted, level surface to ensure that the bottom of the tank is evenly supported. Verify that the installation surface is flat.



## **INSTALLING THE TANK**

1. Inspect the tank for damage before installation. 2. If the tank inlet and outlet penetrations are not drilled, drill holes using the drill



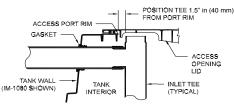
points provided at each of the inlet and outlet ports according to the applicable Inlet and Outlet Hole Locations section of this document. The inlet and outlet may be drilled on either the sides or ends of the tank, as required based on applicable codes and site conditions.\*

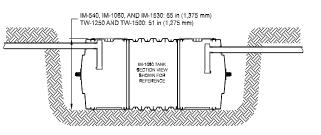
\* Indiana, Kentucky, Oregon, West Virginia, and certain Florida and Texas tanks are factory-drilled.

- 3. The gaskets supplied with the tank are compatible with Schedule 40 and SDR 35 pipe using a 5-inch-diameter (125 mm) hole saw with IM-Series tanks, and a 5<sup>1</sup>/<sub>4</sub>-inch-diameter (133 mm) hole saw with TW-Series tanks.
- 4. Install the rubber gaskets at the inlet and outlet.
- 5. Using all four of the tank's integral lifting lugs, lower tank into excavation.
- 6. Slide the inlet and outlet pipes\* through the gaskets. Soapy lubricant may be used to slide the pipe in.

\*For North Carolina, the inlet pipe shall be a straight pipe with no tee.

- 7. Horizontally position the tee 11/2 inches (40 mm) from the access port rim, allowing the tee to fit into the recess in the access port lid (see detail).
- 8. Install lids and risers (see Installing Risers section) as necessary. Rotate lid over access opening until it indexes to tank and drops into position.

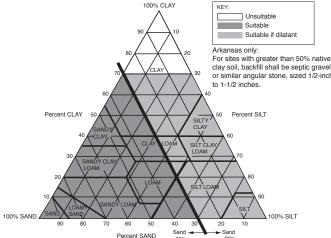




#### **BACKFILLING THE TANK**

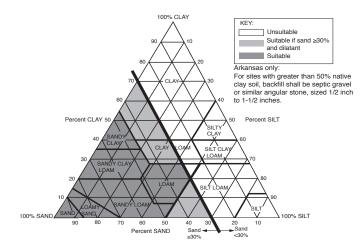
Note: Infiltrator tanks do not require filling with water prior to backfill placement. Water filling and backfilling to the tank mid-height is required if the tank is left in either an open or backfilled excavation that may fill with water from rain or other sources.

- 1. Backfill with suitable native soil (max. 3-inch (75-mm) stone diameter). If native soil is unsuitable, replace unsuitable fraction with suitable soil. If suitable soil is not locally available, contact Infiltrator Systems for assistance.
- 2. Suitable soil shall include soil textural classes defined in the United States Department of Agriculture soil triangle. Suitable soil textural classes are based on the tank installation depth, as measured from finished grade to the top of tank.
- a) For a tank soil cover depth of 0.5 to 2.0 feet (150 to 600 mm), suitable soil textures include:



Failure to comply with these installation instructions will invalidate the warranty. Contact Infiltrator Systems' Technical Services Department for assistance at 1-800-221-4436.

**b)** For a tank soil cover depth that is greater than 2.0 feet and up to 4.0 feet (600 to 1,200 mm), suitable soil textures include:



 Backfill should not have stones greater than 3 inches (75 mm) in diameter or excessive clods that do not break apart during placement and compaction. Backfill must be capable of occupying the spaces between the tank ribs and beneath the haunches.

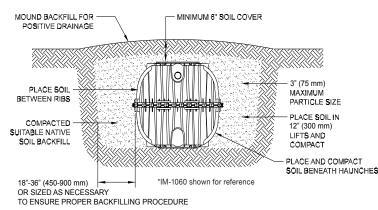
# Note: Rounded screened aggregate (e.g., pea gravel) is not a suitable backfill.

4. Standard field soil classification methods shall be used to determine the soil textural class.

Note: Under most circumstances, the determination of soil dilatancy will not be required. Dilatancy shall be determined in the field using a test that does not require specialized equipment, per ASTM D2488, Section 14.3. Complete instructions can be found at www.infiltratorsystems.com

- 5. Place and compact soil by walking-in beneath the haunches of the tank.
- 6. Place backfill around the four sidewalls in an alternating manner, so that the backfill height along the four sidewalls is maintained within a 12-inch (300-mm) tolerance.
- 7. Do not backfill top of tank before sidewalls are completely backfilled.
- 8. Continue to place backfill along the sidewalls in 12-inch (300-mm) lifts. Place backfill between the ribs on the sidewalls such that the space between the ribs is completely filled with soil.
- 9. Compact backfill material either by walking-in, hand tamping or mechanical compaction (includes backhoe bucket). If mechanical compaction is used, such as a walk-behind tamper or backhoe bucket, a single pass is recommended. Compact each lift prior to placement of next lift. Compact backfill from tank walls to excavation sidewalls.
- **10.** Complete backfilling and grade the area.
- **11.** A minimum 6-inch (150-mm) depth of suitable soil must be placed over the top of the tank. The balance of backfill placed to finish grade above the tank may be either suitable or unsuitable soil.
- 12. Establish a strong stand of erosion-resistant vegetation.

Note: Grade to prevent the backfilled excavation from filling with surface runoff. If the water level in the backfilled excavation exceeds the height of the outlet pipe saddle, tank structural integrity may be compromised.



## SHORT AND LONG-TERM GROUNDWATER CONTROL

It may be necessary to implement groundwater control measures during tank installation. Maintain dry conditions by expanding the excavation to create a short-term groundwater collection sump for temporary placement of a dewatering pump

if needed. Long-term groundwater control measures such as underdrains and interceptor trenches may be sensible if the site is amenable to construction of a control system and such systems are not prohibited by regulation or law, and the tank location is not subject to flooding. Properly installed underdrains and groundwater interceptor trenches may prevent the need for tank buoyancy control measures.

#### INSTALLING UNDER SHALLOW GROUNDWATER CONDITIONS

Buoyancy control measures may be required if the Infiltrator tank is to be installed with less than 12 inches (300 mm) of soil backfill cover, and where the water level outside the tank has the potential to rise 30 inches (750 mm) or more above the elevation of the tank bottom. Otherwise, no control measures are required (see Table 1). The need for buoyancy control measures must be determined based on backfill cover depth and height of water outside of tank above the tank bottom according to Table 1. Refer to Infiltrator IM- and TW-Series Tank Buoyancy Control Guidance document for more information.

Table 1: Tank models	and conditions requiring	buovancy control <sup>2</sup>
	and containene requiring	j baojanoj control

Water height above	Soil cover depth above tank <sup>3</sup>					
tank bottom	6 in (150 mm) to 12 in (300 mm)	Above 12 in (300 mm)				
Above outlet pipe saddle	Do not install	Do not install				
36 in (900 mm) to outlet pipe saddle <sup>4</sup>	All models	None				
30 in (750 mm) to 36 in (900 mm)	All models except IM-540 and IM-1060	None				
Less than 30 in (750 mm)	None	None				

1. IM-540, IM-1060, TW-1250, TW-1500, and IM-1530.

See Infiltrator IM- and TW- Series Tank Buoyancy Control Guidance for detailed information on the use of controls.

3. No controls are required for soil cover depths exceeding 12 in (300 mm).

4. The tank shall not be installed where the water level outside the tank exceeds the height of the outlet pipe saddle. Follow Table 4 guidelines.

#### **INSTALLING RISERS**

- Compatible risers include 24-inch (600 mm) diameter products such as the Infiltrator TW-Riser, EZset by Infiltrator, PolyLok®, Inc., and Tuf-Tite® Corporation, in addition to 24-inch (600 mm) diameter corrugated HDPE and IPEX Ultra Rib® PVC pipe. Follow Infiltrator's IM- and TW-Series Tank Riser Connection Guidance.
- In Oregon only, watertightness testing shall include filling with water at least 2 inches above riser connection, with no more than 1 gallon leakage per 24 hours, per OAR 340-073-0025(3).

#### INSTALLING PUMPS AND RELATED EQUIPMENT

Pumps may be supported on a stable, level 16x16-inch (400x400-mm) platform positioned on the bottom of the tank. One 16x16-inch block or two 8x16-inch (200 -mm x 400-mm) side-by-side blocks may be used. Limit block height to account for pump height and liquid levels during pump cycles. Block(s) should be placed below an access opening and level upon the tank bottom. For two blocks, orient them perpendicular to ribs on the tank bottom, if present, for stability.

Installation of products such as electrical conduit and wiring, pumps, water level control equipment, valves, siphon equipment, etc. shall be in accordance with the product manufacturer's instructions and compliant with applicable state or local rules and regulations. Appurtenances shall be fastened to the tank riser system and not the tank body or access opening rim. Where possible, appurtenances shall be installed to facilitate maintenance and repair access via the tank access openings. **Note: Prefabricated pump vaults may be installed.** 

#### **GENERAL SPECIFICATIONS**

- Failure to comply with installation instructions will void warranty.
- Prior to ground disturbance, check for subsurface obstructions and utilities in conformance with applicable requirements.
- $\bullet$  Operating water temperature shall be less than 100° F (40° C).
- In cold conditions, handle and backfill tank with care to prevent impact damage.
- Tanks are not fire resistant. Store away from ignition sources.
- Removal of structural bulkheads is prohibited; removal of locking clips on the IM-Series tank mid-seam connection is also prohibited.
- Only suitable for potable applications if the tank bears the NSF/ANSI 61 certification mark. Otherwise, tank is recommended for use in septic, rainwater/ stormwater storage, holding, and pump applications, or other non-potable uses.
- Infiltrator tanks are designed for installation underground.
- Contact Infiltrator Systems for above-ground use requirements.

Hei	ght <sup>1</sup>				Total liquid	volume in t	ank at indic	ated height	t			
in cm		IM-540		IM-	IM-1060		IM-1530		TW-1250		TW-1500	
		U.S. Gal	Liters	U.S. Gal	Liters	U.S. Gal	Liters	U.S. Gal	Liters	U.S. Gal	Liters	
1	3	3	11	3	11	17	64	14	53	17	64	
2	5	8	30	13	49	34	128	30	115	37	140	
3	8	14	53	28	106	51	192	58	218	71	267	
4	10	21	80	46	174	68	256	87	330	107	404	
5	13	29	109	65	246	94	357	117	444	143	543	
6	15	37	141	86	326	122	463	148	558	180	683	
7	18	46	173	107	405	152	573	178	674	218	825	
8	20	55	207	129	488	180	681	209	791	256	968	
9	23	64	243	152	575	212	802	240	910	294	1,112	
10	25	74	279	176	666	245	928	272	1,029	332	1,257	
11	28	84	317	200	757	280	1,061	304	1,149	371	1,404	
12	30	94	356	225	852	312	1,182	336	1,270	410	1,551	
13	33	105	396	251	950	351	1,328	368	1,393	449	1,700	
14	36	116	437	277	1,049	387	1,463	400	1,516	489	1,849	
15	38	127	480	303	1,147	422	1,597	433	1,640	528	2,000	
16	40	138	523	330	1,249	464	1,756	466	1,765	569	2,152	
17	43	150	566	357	1,351	500	1,892	500	1,892	609	2,305	
18	46	161	611	384	1,454	537	2,034	533	2,019	650	2,459	
19	48	173	656	411	1,556	575	2,177	567	2,146	690	2,614	
20	50	186	702	438	1,658	614	2,322	601	2,275	732	2,769	
21	53	198	749	465	1,760	652	2,468	636	2,407	774	2,928	
22	56	210	796	493	1,866	690	2,612	671	2,541	816	3,091	
23	58	223	843	521	1,972	729	2,758	708	2,678	860	3,256	
24	61	235	891	549	2,078	770	2,914	745	2,819	905	3,425	
25	64	248	940	577	2,184	808	3,058	781	2,955	948	3,589	
26	66	261	988	605	2,290	847	3,208	815	3,086	990	3,747	
27	69	274	1,038	633	2,396	887	3,356	849	3,215	1,031	3,903	
28	71	287	1,088	662	2,506	928	3,513	883	3,342	1,072	4,057	
29	74	300	1,137	691	2,616	968	3,665	916	3,469	1,112	4,210	
30	76	313	1,185	719	2,722	1,007	3,814	950	3,594	1,152	4,362	
31	79	326	1,233	747	2,828	1,048	3,966	982	3,719	1,192	4,514	
32	81	338	1,281	775	2,934	1,087	4,113	1,015	3,842	1,232	4,663	
33	84	351	1,328	802	3,036	1,126	4,262	1,047	3,964	1,271	4,810	
34	86	363	1,375	830	3,142	1,165	4,410	1,079	4,084	1,309	4,956	
35	89	375	1,421	857	3,244	1,204	4,557	1,110	4,203	1,347	5,101	
36	91	387	1,466	884	3,346	1,242	4,701	1,141	4,320	1,385	5,243	
37	94	399	1,511	911	3,449	1,280	4,846	1,172	4,436	1,422	5,384	
38	97	411	1,555	938	3,551	1,318	4,988	1,201	4,548	1,458	5,521	
39	99	422	1,598	965	3,653	1,355	5,131	1,230	4,657	1,494	5,654	
40	102	433	1,640	992	3,755	1,393	5,272	1,261	4,772	1,532	5,798	
41	104	444	1,681	1,018	3,854	1,430	5,412	1,286	4,869	1,562	5,915	
42	107	455	1,722	1,044	3,952	1,466	5,550	1,314	4,972	1,596	6,042	
43	109	465	1,761	1,069	4,047	1,502	5,685	1,340	5,074	1,629	6,167	
44	112	475	1,799	1,094	4,141	1,537	5,817	1,366	5,172	1,661	6,288	
45	114	485	1,836	1,118	4,232	1,572	5,950	1,390	5,263	1,690	6,399	
46	117	494	1,871	1,142	4,323	1,604	6,070	1,410	5,337	1,715	6,492	
47	119	503	1,905	1,165	4,410	1,638	6,201	1,427	5,402	1,737	6,574	
48	122	512	1,938	1,187	4,493	1,667	6,310	1,439	5,446	1,750	6,626	
49	124	520	1,970	1,208	4,573	1,697	6,422	1,448	5,481	1,762	6,669	
50	127	528	1,999	1,228	4,648	1,724	6,527	-	-	_	-	
51	130	535	2,027	1,247	4,720	1,749	6,621	_	_	_	_	
52	132	542	2,050	1,265	4,789	1,766	6,684	_	_	_	_	
53	135	547	2,000	1,278	4,838	1,777	6,726	_	_	_		
54	137	551 <sup>2</sup>	2,087	1,287	4,872	1,785 <sup>2</sup>	6,758	_	_	_		

**Table 2: Infiltrator Tank Nominal Volume Chart** 

1. Height measured from lowermost inside surface at bottom of corrugation in tank.

2. The total capacity of the IM-540 tank is 552 gallons; the total capacity of the IM-1530 tank is 1,787 gallons.

## **INLET AND OUTLET HOLE LOCATIONS**

Drill height marks are provided on all Infiltrator tank models to guide inlet and outlet hole drilling. A single drill height mark is provided at each end or side port on the IM-Series tanks (example illustrated below). Holes may be drilled at the end or side inlet and outlet locations, as allowed by state and/or local regulations. The drill height mark indicates the center

point location for the hole saw. The pilot drill bit on the hole saw should be positioned at the center of the drill height mark to align the hole saw properly. On the TW-Series tanks, marks "A" (lower) and "B" (upper) are located at the inlet end, while marks "C" (lower) and "D" (middle) are located at the outlet end. Table 3 provides drilling and invert information by regulatory jurisdiction for the installation of 4-inch- (100-mm-) diameter pipe.

#### Table 3: Inlet and Outlet Hole Locations<sup>4</sup>

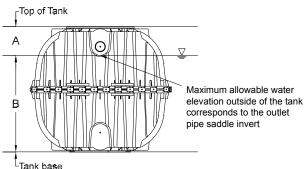
	Inlet Drill	Outlet Drill	Invert Drop	Inlet Invert He	Outlet Invert	
Jurisdiction <sup>1</sup>	Location	Location	(in) [mm]	Above Inside Bottom of Tank <sup>2</sup>	Above Excavation Base <sup>3</sup>	Height <sup>2</sup> and Liquid Level (in) [mm]
			M-540 and IM	M-1530		
All	All	All	3.00 [76]	47.00 [1,994]	47.20 [1,199]	44.00 [1,118]
			IM-1060	0		
All	End Side Side End	End Side End Side	3.00 [76] 3.00 [76] 3.50 [89] 2.50 [64]	47.00 [1,994] 47.50 [1,207] 47.50 [1,207] 47.00 [1,994]	47.20 [1,199] 47.70 [1,212] 47.70 [1,212] 47.20 [1,199]	44.00 [1,118] 44.50 [1,130] 44.00 [1,118] 44.50 [1,130]
TW-1250 and TW-1500						
FL	В	D	2.75 [70]	42.75 [1,086]	43.45 [1,102]	40.00 [1,016]
DE, IA, MA, ON	А	D	2.00 [51]	42.00 [1,067]	42.70 [1,086]	40.00 [1,016]
AR, CA, CO, CT, ID, IN, KS, KY, MO, MT, ND, OR, PA, SD, TX, VT, WV	В	С	3.00 [76]	42.75 [1,086]	43.45 [1,102]	39.75 [1,010]
All Others	A	С	2.25 [57]	42.00 [1,067]	42.70 [1,086]	39.75 [1,010]

1. Indiana, Kentucky, Oregon, West Virginia, and certain Florida and Texas tanks are factory drilled.

2. Invert heights are measured from the lowest interior surface at the bottom of the tank to the invert.

3. Invert heights are measured from the base of the excavation to the invert.

4. State, provincial, and local regulatory requirements supersede Table 3 information.



#### Table 4: Maximum Allowable Subsurface Water Elevation

	Vertical Distance to Maximum Allowable Water Elevation Outside of Tank					
Tank Model	A - From Top of Tank	B - From Tank Base				
IM-Series <sup>1</sup>	13" (330 mm)	43" (1,075 mm)				
TW-Series <sup>2</sup>	11" (280 mm)	39" (975 mm)				

1. IM-Series tanks include the IM-540, IM-1060, and IM-1530.

2. TW-Series tanks include the TW-1250 and TW-1500.



systems inc.

4 Business Park Road P.O. Box 768 Old Saybrook, CT 06475 860-577-7000 • Fax 860-577-7001 **INFILTRATOR**<sup>®</sup> 1-800-221-4436 www.infiltratorsystems.com

#### INFILTRATOR SYSTEMS, INC. ("Infiltrator") **INFILTRATOR® SEPTIC TANK LIMITED WARRANTY** FIVE (5) YEAR MATERIALS AND WORKMANSHIP LIMITED WARRANTY

- (a) This limited warranty is extended to the end user of an Infiltrator Septic Tank. A Septic Tank manufactured by Infiltrator, when installed and operated in accordance with Infiltrator's installation instructions and local regulation by a licensed installer, is warranted to you: (i) against defective materials and workmanship for five (5) years after installation. Infiltrator will, at its option, (i) repair the defective product or (ii) replace the defective materials. Infiltrator's liability specifically excludes the cost of removal and/or installation of the Septic Tank.
- (b) In order to exercise its warranty rights, you must notify Infiltrator in writing at its corporate headquarters in Old Saybrook, Connecticut within fifteen (15) days of the alleged defect.
- (c) YOUR EXCLUSIVE REMEDY WITH RESPECT TO ANY AND ALL LOSSES OR DAMAGES RESULTING FROM ANY CAUSE WHATSOEVER SHALL BE SPECIFIED IN SUBPARAGRAPH (a) ABOVE. INFILTRATOR SHALL IN NO EVENT BE LIABLE FOR ANY CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND, HOWEVER OCCASIONED, WHETHER BY NEGLIGENCE OR OTHERWISE. SOME STATES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES, SO THIS LIMITATION OR EXCLUSION MAY NOT APPLY TO YOU. THIS WARRANTY GIVES YOU SPECIFIC LEGAL RIGHTS AND YOU MAY ALSO HAVE OTHER RIGHTS WHICH VABY FROM STATE TO STATE.
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(e) YOU MAY ASSIGN THIS LIMITED WARRANTY TO A SUBSEQUENT PURCHASER OF YOUR HOME. (f) NO REPRESENTATIVE OF INFILTRATOR HAS THE AUTHORITY TO CHANGE THIS LIMITED WARRANTY IN ANY

MANNER WHATSOEVER, OR TO EXTEND THIS LIMITED WARRANTY.

#### CONDITIONS AND EXCLUSIONS

There are certain conditions or applications over which Infiltrator has no control. Defects or problems as a result of such conditions or applications are not the responsibility of Infiltrator and are NOT covered under this warranty. They include failure to install the Septic Tank in accordance with instructions or applicable regulatory requirements or guidance, altering the Septic Tank contrary to the installation instructions and disposing of chemicals or other materials contrary to normal septic tank usage.

The above represents the Standard Limited Warranty offered by Infiltrator. A limited number of states and counties have different warranty requirements. Any purchaser of a Septic Tank 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 a Septic Tank.

#### Distributed By:

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 Systems Inc. Infiltrator is a registered trademark in France. Infiltrator Systems Inc. is a registered trademark in Mexico Contour, MicroLeaching, PolyTuff, ChamberSpacer, MultiPort, PosiLock, QuickCut, QuickPlay, SnapLock and StraightLock are trademarks of Infiltrator Systems Inc.

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