



Commonwealth of Massachusetts
Executive Office of Energy & Environmental Affairs

Department of Environmental Protection

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MODIFIED CERTIFICATION FOR GENERAL USE

Pursuant to Title 5, 310 CMR 15.000

Name and Address of Applicant:

Infiltrator Water Technologies, LLC.
4 Business Park Road, P.O. Box 768
Old Saybrook, CT 06475

Trade name of technology and model number: Infiltrator TW-Series Septic tanks, models TW-1050, IM-1060, TW-1250, TW-1500, and IM-1530 (hereinafter the "System" or "Tank(s)"). Schematic drawings of the Tanks and an installation instruction checklist are attached.

Transmittal Number: X258899
Date of Issuance: April 8, 2014, modified June 12, 2015

Authority for Issuance

Pursuant to Title 5 of the State Environmental Code, 310 CMR 15.000, the Department of Environmental Protection hereby issues this Certification to: Infiltrator Water Technologies, LLC., 4 Business Park Road, P.O. Box 768, Old Saybrook, CT 06475 (hereinafter "the Company"), for General Use in the Commonwealth of Massachusetts of the System described herein. Sale and use of the System are conditioned on and subject to compliance by the Company and the System owner with the terms and conditions set forth below. Any noncompliance with the terms or conditions of this Certification constitutes a violation of 310 CMR 15.000.

David Ferris, Director
Wastewater Management Program
Bureau of Water Resources

June 12, 2015
Date

I. Purpose

1. The purpose of this Certification is to allow the use of the System in Massachusetts on a General Use basis.
2. With the necessary permits and approvals required by 310 CMR 15.000, this Certification authorizes the use of the System in Massachusetts.
3. The System may be installed on all facilities where a system in compliance with 310 CMR 15.000 exists on site or could be built and for which a site evaluation in compliance with 310 CMR 15.000 has been approved by the local approving authority; or by DEP if DEP approval is required by 310 CMR 15.000.

II. Design Standards

1. The models listed below are covered under this Certification.

Model	Dimensions W x L x H Ft-Inches	Capacity
TW-1050	66.0" x 123.7" x 50.7"	1,050 Gallons*
TW-1250	66.0" x 143.7" x 50.7"	1,250 Gallons*
TW-1500	66.0" x 170.1" x 50.7"	1,500 Gallons
IM-1060	62.2" x 127.0" x 54.7"	1,094 Gallons*
IM-1530	61.7" x 175.6" x 54.5	1,509 Gallons

* These tanks can only be installed in accordance with 310 CMR 15.404(3) (a).

2. The System approved includes the 1050, 1250, 1500, 1094 and 1509 gallon polyolefin septic tanks, designated by the Company as models TW-1050, TW-1250, TW-1500, IM-1060, and IM -1530 manufactured with either single or double compartments. *The tanks are exempted from three manholes required under 310 CMR 15.228(2) as well as the four-foot liquid depth and pumping on an annual basis under 310 CMR 15.223(2). The two compartment septic tanks also are exempted from the requirement of the inverted U-shaped pipe inter-connection under 310 CMR15.224 (4). The System must be pumped and have routine maintenance in accordance with 310 CMR 15.351.*

The TW-series tanks are rotational molded to form multi-layered corrugated polyethylene or polypropylene with minimum wall thickness of 0.7 inch. The TW-series tanks shall meet or exceed International Association of Plumbing and

Mechanical Officials (IAPMO) IGC 262-2008 standards for multi-layered rotationally molded polyethylene septic tanks.

The IM series tanks are injection molded to form a single layer of corrugated polypropylene or polyethylene with a minimum wall thickness of 0.2 inch. The IM series shall meet or exceed the IAPMO/ IGC 262-2013 standards for single-layered injection molded thermoplastic septic tanks. The tanks shall also be subject to any future applicable requirements in amendments or changes to Title 5 regulations, 310 CMR 15.000.

3. Tanks manufactured by the Company with less than a 1,050 gallon capacity are not approved for use under this Certification.
4. The System shall be installed between the building sewer and the distribution box and soil absorption system (SAS), of a conventional Title 5 system. The System may also be installed between a building sewer and a DEP approved I/A system. The System shall be installed in a manner which will not adversely affect the operation of a Title 5 system as constructed in accordance with 310 CMR 15.100 through 15.262, subject to the provisions of this Certification.
5. The System shall include a minimum of two 20 inch diameter manholes. The two 20 inch diameter manholes shall provide access to the tanks for inspection, maintenance or pumping in general accordance with the intent of 310 CMR 15.228 (2). Inlet and outlet tees shall be accessible for inspection and maintenance with covers over the access ports to within six inches of finish grade. When manholes are brought to and maintained at final grade, the manhole covers shall be secured to prevent unauthorized access in accordance with the intent of 310 CMR 15.228 (2).
6. The System will require tie downs and associated anchors to prevent tank floatation in locations with a high groundwater elevation. If applicable, buoyancy calculations shall be provided on the Title 5 septic system plans for each System installation. System buoyancy calculations shall include consideration of the high groundwater elevation developed as required by 310 CMR 15.100 through 15.105. Design plans prepared in accordance with 310 CMR 15.220 shall include System anchoring and backstay details when required by the presence of high groundwater. Company-published buoyancy control specifications can be an acceptable substitute for preparation of site-specific design plans.
7. No System shall be located or installed in a vehicle traffic area. Siting of a TW-1050, TW-1250, TW-1500, IM-1060, or IM-1530 tank in a location subject to vehicular loading is specifically prohibited by this Certification. Where vehicles can possibly access the tank site, suitable warnings including bollards shall be installed.
8. Inlet and outlet tees shall be constructed of schedule 40 PVC or equivalent, and meet the relevant requirements of 310 CMR 15.223 and 15.227. The tees shall extend a minimum of six inches above the flow line of the tanks. The inlet tee

shall extend at least ten inches below the flow line and the outlet tee shall extend at least nine inches below the flow line.

9. The System shall be field tested to ensure it is watertight prior to backfill and burial and final cover.
10. The maximum burial depth for the tanks shall not exceed 36 inches.
11. The minimum effective depth of the tanks, measured from the invert elevation to the tank bottom, shall be at least 40 inches.

III. General Conditions

1. The provisions of 310 CMR 15.000 are applicable to the use of the System, except those that specifically have been varied by the terms of this Certification.
2. The facility served by the System, and the System itself, shall be open to inspection and sampling by the Department and the local approving authority at all reasonable times.
3. In accordance with applicable law, the Department and the local approving authority may require the System owner to cease use of the System and/or to take any other action as it deems necessary to protect public health, safety, welfare or the environment.
4. The Department has not determined that the performance of the System will provide a level of protection to the environment that is at least equivalent to that of a sewer. Accordingly, no new System shall be installed if it is feasible to connect the facility to a sanitary sewer, unless as allowed by 310 CMR 15.004.
5. Design, installation and use of the System shall be in strict conformance with the Company's DEP approved plans and specifications and 310 CMR 15.000, subject to this Certification.

IV. Conditions Applicable to the System Owner

1. The System is approved for use in the treatment and disposal of sanitary sewage only. Any wastes that are non-sanitary sewage, generated or used at the facility served by the System, shall not be introduced into the on-site sewage disposal system and shall be lawfully disposed of.
2. The System owner shall at all times properly operate and maintain the System and the onsite sewage disposal system in which the System is installed.
3. The System owner shall furnish the Department any information that the Department requests regarding the operation and performance of the System, within 21 days of the date of receipt of that request.
4. No System owner shall authorize or allow the installation of the System other than by a person trained by the Company to install the System.

V. Conditions Applicable to the Company

1. The Company shall notify the Department's Director of Wastewater Management Program at least 30 days in advance of any transfer of ownership of the technology for which this Certification is issued. Said notification shall include the name and address of the proposed new owner and a written agreement between the existing and proposed new owner containing a specific date for transfer of ownership, responsibility, coverage and liability between them. All provisions of this Certification applicable to the Company shall be applicable to successors and assigns of the Company, unless the Department determines otherwise.
2. The Company shall furnish the Department any information that the Department requests regarding the System, within 21 days of the date of receipt of that request.
3. Prior to any sale of the System, the Company shall provide the purchaser with a copy of this Certification. In any contract for distribution or sale of the System, the Company shall require the distributor or seller to provide the purchaser of the System, prior to any sale of the System, with a copy of this Certification.
4. The Company shall prepare an installation manual specifically detailing procedures for installation of the System. The Company shall institute and maintain a training program in the proper installation of the System in accordance with the manual and provide a training course at least annually for prospective installers. The Company's distributor(s) may fulfill this training program on behalf of the Company. The Company shall certify that installers have passed the Company's training qualifications, maintain a list of certified installers, submit a copy to the local approving authority, and update the list annually.
5. Neither the Company nor its distributor shall sell the System to installers unless they are trained to install these Systems by the Company or its' distributors as noted above.
6. The Company or its distributor shall provide to each System owner a five year written warranty transferable to a new owner that includes the following:
 - i. Full refund of the design and installation cost should the System Tank fail as described in 310 CMR 15.303(1)(a)(1) within five years of installation provided that the System owner has maintained and has operated the System in accordance with the Company's specifications.

VI. Conditions Applicable to Installers of the System

1. Each Installer shall install the System in accordance with Company training on the installation of the System and the conditions of this Certification.
2. No Installer shall install the System unless the Installer has been trained by the Company, pursuant to Section V.5., on installation of the System.

VII. Reporting

1. All submittals of notices and documents to the Department required by this Certification shall be submitted to:

Director
Wastewater Management Program
Department of Environmental Protection
One Winter Street – 5th floor
Boston, Massachusetts 02108

VIII. Rights of the Department

1. The Department may suspend, modify or revoke this Certification for cause, including, but not limited to, non-compliance with the terms of this Certification, non-payment of an annual compliance assurance fee, for obtaining the Certification by misrepresentation or failure to disclose fully all relevant facts or any change in or discovery of conditions that would constitute grounds for discontinuance of the Certification, or as necessary for the protection of public health, safety, welfare or the environment, and as authorized by applicable law. The Department reserves its rights to take any enforcement action authorized by law with respect to this Certification, the System, the owner, or operator of the System and the Company.