



RHODE ISLAND
DEPARTMENT OF ENVIRONMENTAL MANAGEMENT

235 Promenade Street, Providence, RI 02908-5767

TDD 401-222-4462

Alternative/Experimental OWTS Technology Program

Vendor Information:

Zoeller Company
P.O. Box 16347
Louisville, KY 40256-0347

Website: <http://www.clarusenvironmental.com>

Contact:

Wes Combs
Zoeller Company
3649 Cane Run Road
Louisville, KY 40211

Phone: 800-928-7867, ext. 8187

Fax: 877-414-4316

Technology Name and Model Numbers:

Filtered Turbine STEP System
Prepackaged (Unassembled) Part Numbers
5041-0003 through 5041-0018*

*A high water alarm is required; Vendor's literature provides automatic and non-automatic pump package lists, some of which incorporate high water alarm; auxiliary alarm components are available.

Technology Type:

Component Class One Approval

Certification Date:

Issued: September 26, 2003

Revised: June 14, 2016

No Expiration

CERTIFICATION:

The Rhode Island Department of Environmental Management (RIDEM) has reviewed the Alternative/Experimental (A/E) Component application for Zoeller Company's Turbine Septic Tank Effluent Pump (STEP) System. The technology includes the system series (Part Numbers) specified above, hereafter referred to as the "Component".

The Component is designed for high head applications; a turbine effluent pump (simplex, or duplex), float system, and effluent filter cartridge (924 linear feet of 1/16th-inch filtration) are contained within a polyethylene vault. It may be installed in a septic tank as an alternative to a separate pump tank or in a distinct pump tank following a septic tank, and can be equipped with a control panel for use in either demand-dose or timed-dose systems. The vault diameter is 17-1/8 inches and is available in various heights, with a variety of pump and control panel options, accommodating discharge rates from 11 gpm to 85 gpm, with Vendor (manufacturer) consultation required for discharge rates over 27 gpm.

Based upon information provided by Zoeller Company, hereafter referred to as the "Vendor", the RIDEM hereby accepts the Component for listing on the RIDEM Alternative/Experimental Technology List. Design and installation of the Component shall be in accordance with the following terms and conditions:

I. Design Requirements

1. The Component model (Part Number) used for each installation shall be based on Vendor's specifications.
2. The Component shall only be installed in tanks that meet the Vendor's specifications and OWTS Rules for septic, or pump tanks, as applicable.
3. Manhole access to grade shall be provided over the Component at the outlet of the septic tank, or pump tank as applicable.
4. All designs shall be for cold weather application.
5. All designs incorporating the Component shall meet all requirements of the OWTS Rules for Pumps.



II. General Requirements

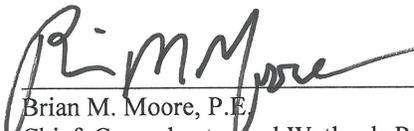
1. The Vendor shall submit a finalized guidance document detailing all design, installation, operation and maintenance requirements for the Component. Once this guidance document has been submitted and accepted, the Component shall be placed on the RIDEM list of approved A/E Technologies.
2. Revisions to the guidance detailing design, installation and operation and maintenance must be submitted to RIDEM, identifying the content revised for review and approval.
3. The Vendor shall notify the RIDEM in writing of any changes to the Component, including its discontinuation. Modifications deemed by the RIDEM to be substantial, may require re-application to the Alternative/Experimental Program.
4. The Vendor shall notify the RIDEM at least 30 days prior to any proposed transfer of ownership of the Component technology. Notification shall include the name and address of the new owner and a written agreement between the existing and new owner specifying a date for transfer of ownership, responsibility, and liability for the technology. All provisions of this approval shall be applicable to any new owners.
5. The Vendor shall provide any purchaser of the Component with a copy of this approval letter prior to the sale of the Component.

III. Operation and Maintenance Requirements

1. Operation and Maintenance instructions shall be provided to the Owner/Operator.
2. The Component shall be maintained according to the manufacturer's specifications.
3. When the Component is installed in a conventional septic system should be inspected annually initially and cleaned as necessary. Future inspections should be scheduled as deemed appropriated based upon observations.
4. When the Component is installed in conjunction with an approved A/E treatment system, it shall be inspected at the same time as the treatment system and cleaned as necessary. Should the required inspections reveal that more frequent inspections are needed, the inspection schedule should be modified accordingly.

IV. Rights of the RIDEM

1. The RIDEM may suspend, modify or revoke this Certification for cause, including but not limited to: Non-compliance with any of the provisions or conditions of this Certification, misrepresentation or failure to fully disclose all relevant data, or receipt of new information indicating the use of the Component is contrary to the public interest, public health or the environment, or in the event the RIDEM promulgates standards for filter components, or provisions thereto, which differ from the Component's specifications.
2. This Certification does not represent an endorsement of the Component by the RIDEM. This Certification may be reproduced only in its entirety.
3. This Certification maybe reproduced only in its entirety.



Brian M. Moore, P.E.
Chief, Groundwater and Wetlands Protection

6-14-16

Issuance Date