



June 18, 2015

PIRANA OF WISCONSIN
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SUPERIOR ENVIRONMENTAL
TECHNOLOGIES
CLARENCE FREDERICK
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Re: Description: CHEMICAL OR PHYSICAL RESTORATION FOR POWTS
Manufacturer: SUPERIOR ENVIRONMENTAL TECHNOLOGIES
Product Name: PIRANA (PREDATOR) AEROBIC BACTERIAL GENERATOR
Model Number(s): PIRANA PREDATOR JR.
THIS APPROVAL AND ITS CONDITIONS ARE LIMITED TO USE & INSTALLATION
IN EXISTING POWTS SYSTEMS FOR THE PURPOSE OF ABSORPTION AREA
RESTORATION

[MAX. DWF 450 GPD DOMESTIC WASTEWATER; INSTALLED IN DPS-APPROVED
TANKS SIZED TO MEET DWF FOR 3 BEDROOMS OR LESS, OR BATHROOM WASTE
FROM COMMERCIAL FACILITIES; INSTALLATION REQUIRES A 300-1000 GAL. TANK;
L.L. RANGE 38 - 72 IN.; replenish the Pirana Blend™ Bacteria annually]

Product File No: 20150047

The specifications and/or plans for this plumbing product have been reviewed and determined to be in compliance with chapters SPS 382 through 384, Wisconsin Administrative Code, and Chapters 145 and 160, Wisconsin Statutes.

The Department hereby issues an approval based on the Wisconsin Statutes and the Wisconsin Administrative Code. **This approval is valid until the end of June 2020.**

This approval supersedes the approval issued on 6/14/2010 under product file number 20100097.

This approval is contingent upon compliance with the following stipulation(s):

- This product must be sized based on daily wastewater flow (gallons per day). The gallons per day value must be at least 150 gallons per day per bedroom.
- The maximum daily wastewater (DWF) flow which may discharge through this product is 450 gallons per day.
- Installation and servicing of this product must be in accordance with the manufacturer's instructions. A copy of the manufacturer's installation and servicing instructions must be given to the owner of the system.
- This product must be utilized in accordance with the manufacturer's printed installation instructions and this product approval. If there is a conflict between the manufacturer's installation instructions and the product approval, the product approval requirements will take precedence.
- A copy of this approval letter and the manufacturer's printed installation instructions must be supplied to the buyer of this product.
- This product must be installed by a properly licensed plumber.
- A state Sanitary Permit must be obtained when this product is installed.

- If the treatment components of this device (e.g., Pirana Blend™) are replaced with any substance (bacterial species, microbes, etc.) other than those originally approved for use with this device, then this approval shall immediately be considered null and void.
- This device must include permanent labeling; identified by manufacturer, model and serial number, riveted to the body of the device.
- For installations where the access opening is not directly above the desired product location within the tank, a standard installation practice involves the use of a flexible air line between the air supply's riser entry point and product; in some installations to existing tanks, access modification may be needed.
- As per the manufacturer, the system is not designed for receiving adverse wastewater containing, but not limited to, the following: medications relating to chemotherapies and diabetes, high FOG levels, disinfectants, paints, strong cleaning agents, water treatment devices using chlorine or sodium permanganate, and non-biodegradable items.
- Because many DSPS approved products are readily available for sale on the internet and at retail outlets; it is important that buyers in Wisconsin are aware of approval stipulations for DSPS-approved products. In the state of Wisconsin, installation of this product/device in a POWTS requires a licensed person pursuant to SPS 305.90 (1)(a) & (b), local or state plan review, and/or the issuance of a state sanitary permit pursuant to SPS 383.21 (1)(b). It is recommended that any written and electronic communications (brochures/advertisements/webpages, etc.) associated with this product/device contain information noting that Wisconsin installations require a licensed person, plan review and/or the issuance of a state sanitary permit.
- An annual check up by a properly credentialed individual is needed to determine when to replenish the Pirana Blend™ Bacteria, clean the effluent filter and to determine if inorganic solids need to be pumped. This annual check up does not change the required pumping and inspection interval established by ch. SPS 383.
- No nitrogen reduction is claimed nor sought for this approval.
- MULTIPLE DEVICES: For domestic DWF greater than 3 bedrooms (450 gpd) and commercial establishments with the domestic strength wastewater, the Pirana Predator™ may be installed singly or in multiple arrays. For these installations the minimum and maximum tank compartment volume must be adhered to: for two devices, double the compartment or tank volumes; for 3 devices, triple the tank compartment or tank volume.
- This device requires an aerator pump, one which is designated to provide a minimum 1.5 cfm to the fine bubble diffuser located in the Pirana Predator Jr.™ unit.
- The Pirana Predator Jr.™ must be installed in existing state-approved tank or tanks that comply with the following:
 1. Tank volume of the compartment or tank which will house the treatment device must be at least 300 and no greater than 1000 gallons.
 2. The volume of the compartment or tank that does not house the treatment device must be at least 200 gallons and no greater than 1000 gallons.
 3. Liquid level of the compartment or tank which will house the treatment device must be at least 38 inches and no greater than 72 inches.
 3. Distance that the treatment device must be horizontally away from the tank inlet or the outlet of the first or second compartment or tank must be at least 6 inches and no greater than 36 inches.
 4. Liquid level of the compartment or tank that does not house the treatment device must be at least 38 inches and not greater than 72 inches.
 5. In tanks containing greater than two compartments, the above sizing requirements will refer only to the first and second compartments of such tanks.
 6. For tanks NOT meeting this criteria, a variance MAY be required prior to plan review and installation.

- Maintenance: Service contract required for mandatory annual maintenance/inspection of unit and other POWTS components by a company representative or POWTS Maintainer. Annual cleaning of air intake filter, replacement of Pirana Blend™ Bacteria pack, check bio-solids accumulation levels and completion of Pirana Predator Jr.™ Maintenance Inspection report.
- Any changes to the constituencies of the Pirana Blend™ or other materials as approved at this time shall trigger a revision and fee PRIOR to review and approval.
- A copy of this approval letter must accompany each installation of this product in the State of Wisconsin.

The department is in no way endorsing this product or any advertising, and is not responsible for any situation which may result from its use.

Sincerely,

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