

January 31, 2023

Marie-Christine Belanger  
Premier Tech Aqua  
1 Avenue Premier  
Riviere-du-Loup (Quebec)  
G5R 6C1 Canada

RE: Product Renewal #2 – Notice of Proprietary Treatment Product Listing

Description: Sewage Treatment System, Media Filter Bed  
Manufacturer: Premier Tech Aqua  
Product Name: Ecoflo® Coco Filter [Closed Bottom Models using polyethylene shell and concrete shell]  
Model Number: Polyethylene Shell (pump discharge): ECP-450P, ECP-450P PACK, ECP-750P, ECP-860P, ECP-970P  
Polyethylene (gravity discharge): ECP-450G, ECP-450G PACK, ECP-750G, ECP-860G, ECP-970G  
Concrete Shell (gravity discharge): ECC-500G, ECC-600G, ECC-860G Concrete  
Shell (pump discharge): ECC-400P, ECC-500P, ECC-600P, ECC-860P  
Product Listing: Category A (Residential Sewage)  
Product File No: 2015-011

Dear Marie-Christine Belanger:

Thank you for your application for product registration for the Premier Tech Aqua Ecoflo Coco Filter, Closed Bottom Models, which includes the following models: ECP-450P, ECP-450P PACK, ECP-750P, ECP-860P, ECP-970P, ECP-450G, ECP-450G PACK, ECP-750G, ECP-860G, ECP-970G, ECC-500G, ECC-600G, ECC-860G, ECC-400P, ECC-500P, ECC-600P, and ECC-860P.

In accordance with Minn. R. ch. 7080 through 7083, the Minnesota Pollution Control Agency (MPCA) has reviewed Premier Tech Aqua's submitted materials requesting registration for Category A (residential) treatment product listing of the Ecoflo Coco Filter, Closed Bottom Models. Based on the submitted documentation, the MPCA finds that the Ecoflo Coco Filter is eligible to be registered, per Minn. R. ch. 7083.4030, as meeting the following treatment levels:

- **Treatment Level B** (cBOD<sub>5</sub> of 25 mg/L, TSS of 30 mg/L, and fecal coliform of 10,000 colonies per 100 ml) without disinfection
- **Treatment Level A2** (cBOD<sub>5</sub> of 15 mg/L, TSS of 15 mg/L)
- **Treatment Level B2** (cBOD<sub>5</sub> of 25 mg/L, TSS of 30 mg/L)
- **Treatment Level C** (cBOD<sub>5</sub> of 125 mg/L, TSS of 60 mg/L, and Oil & Grease of 25 mg/L)

The Ecoflo Coco Filter, Closed Bottom Models, is registered according to the design rated capacities, as shown in Tables 1 and 2.

Subject to this determination, the Ecoflo Coco Filter, Closed Bottom Models, will be placed on the List of Registered Subsurface Sewage Treatment System (SSTS) Products. The product information listed in this Notice of Proprietary Product Listing will be maintained on the MPCA website and may not be altered by the manufacturer without permission from the MPCA.

**Table 1. Ecoflo Coco Filter, Closed Bottom using Polyethylene Shell.**

Product Name Model	Treatment Process	Design Flow (gpd)	BOD <sub>5</sub> Removed (lbs/day)	Highest Treatment Level	Important Product Use Information
Ecoflo Coco Filter ECP-450G and ECP-450G PACK Gravity discharge	Media Filter Bed	450	1.12	B	<ul style="list-style-type: none"> <li>• Notice of Product Listing                             <ul style="list-style-type: none"> <li>○ MPCA Letter</li> <li>○ Conditions of Registration</li> <li>○ Expiration Date</li> </ul> </li> <li>• Ecoflo Coco Filter Manual                             <ul style="list-style-type: none"> <li>○ Submitted Drawings</li> <li>○ Flow Splitting</li> <li>○ Known Limitations</li> <li>○ Installation</li> <li>○ Operation &amp; Maintenance</li> <li>○ Owners Information</li> <li>○ Regulators Checklist</li> <li>○ Service Contract</li> </ul> </li> <li>• Management Plan</li> <li>• Operating Permit Template</li> </ul>
Ecoflo Coco Filter ECP-750G Gravity discharge	Media Filter Bed	750	1.86	B	
Ecoflo Coco Filter ECP-860G Gravity discharge	Media Filter Bed	860	2.14	B	
Ecoflo Coco Filter ECP-970G Gravity discharge	Media Filter Bed	970	2.41	B	
Ecoflo Coco Filter ECP-450P and ECP-450P PACK Pump discharge	Media Filter Bed	450	1.12	B	
Ecoflo Coco Filter ECP-750P Pump discharge	Media Filter Bed	750	1.86	B	
Ecoflo Coco Filter ECP-860P Pump discharge	Media Filter Bed	860	2.14	B	
Ecoflo Coco Filter ECP-970P Pump discharge	Media Filter Bed	970	2.41	B	

**Table 2. Ecoflo Coco Filter, Closed Bottom using Concrete Shell.**

Product Name Model	Treatment Process	Design Flow (gpd)	BOD <sub>5</sub> Removed (lbs/day)	Highest Treatment Level	Important Product Use Information
Ecoflo Coco Filter ECC-500G Gravity discharge	Media Filter Bed	500	1.24	B	<ul style="list-style-type: none"> <li>• Notice of Product Listing                             <ul style="list-style-type: none"> <li>○ MPCA Letter</li> <li>○ Conditions of Registration</li> <li>○ Expiration Date</li> </ul> </li> <li>• Ecoflo Coco Filter Manual                             <ul style="list-style-type: none"> <li>○ Submitted Drawings</li> <li>○ Flow Splitting</li> <li>○ Known Limitations</li> <li>○ Installation</li> <li>○ Operation &amp; Maintenance</li> <li>○ Owners Information</li> <li>○ Regulators Checklist</li> <li>○ Service Contract</li> </ul> </li> <li>• Management Plan</li> <li>• Operating Permit Template</li> </ul>
Ecoflo Coco Filter ECC-600G Gravity discharge	Media Filter Bed	600	1.49	B	
Ecoflo Coco Filter ECC-860G Gravity discharge	Media Filter Bed	800	2.14	B	
Ecoflo Coco Filter ECC-400P Pump discharge	Media Filter Bed	400	1.00	B	
Ecoflo Coco Filter ECC-500P Pump discharge	Media Filter Bed	500	1.24	B	
Ecoflo Coco Filter ECC-600P Pump discharge	Media Filter Bed	600	1.49	B	
Ecoflo Coco Filter ECC-860P Pump discharge	Media Filter Bed	860	2.14	B	

The registration of products in Minnesota is contingent upon compliance with the following conditions:

1. Products must be used in compliance with the MPCA rules and the plans and design specifications provided. Any deviation from the plans and specifications shall not be permitted unless authorized by National Sanitation Foundation (NSF) and, in writing, by the MPCA for registered use.
2. The manufacturer shall have readily accessible information specific to a product’s registered use in Minnesota; for designers, regulators, installers, system owners, service providers and other interested parties for the following items: a) product manual; b) design instructions; c) installation instructions; d) information regarding operation and maintenance; e) homeowner instructions; and f) list of representatives and manufacturer-certified service providers, if any, as required by Minn. R. ch. 7083.4040 (H).
3. The design flows for the registered Ecoflo Coco Filter, Closed Bottom Models, are as follows:
  - 450 gallons per day for ECP-450P
  - 450 gallons per day for ECP-450P PACK
  - 750 gallons per day for ECP-750P
  - 860 gallons per day for ECP-860P
  - 970 gallons per day for ECP-970P
  - 450 gallons per day for ECP-450G

- 450 gallons per day for ECP-450G PACK
  - 750 gallons per day for ECP-750G
  - 860 gallons per day for ECP-860G
  - 970 gallons per day for ECP-970G
  - 500 gallons per day for ECC-500G
  - 600 gallons per day for ECC-600G
  - 860 gallons per day for ECC-860G
  - 400 gallons per day for ECC-400P
  - 500 gallons per day for ECC-500P
  - 600 gallons per day for ECC-600P
  - 860 gallons per day for ECC-860P
4. Septic/trash tank capacity for dwellings shall meet the manufacturer's size requirements consistent with Standard 40 National Sanitation Foundation (NSF) testing of the product and sewage tank requirements contained in Minn. R. ch. 7080.1900 through 7080.2020. Sewage tank(s) shall be designed to withstand the pressures to which it will be subject to. Tanks and all pipe penetrations, risers, and other connections to the tank shall be watertight.
  5. Systems installed using Ecoflo Coco Filter Closed Bottom Models with gravity discharge (ECP- 450G, ECP-450G PACK, ECP-750G, ECP-860G, ECP-970G, ECC-500G, ECC-600G, ECC-860G, ECP-450G, ECC-500G, ECC-600G, ECP-750G, ECP-860G, ECP-970G, and ECC-860G) will be required to provide an additional pump tank that meets the sewage tank requirements contained in Minn. R. ch. 7080.1900 through 7080.2020. Sewage tank(s) shall be designed to withstand the pressures to which it will be subject to. Tanks and all pipe penetrations, risers, and other connections to the tank shall be watertight. An alarm device is required on all pump tanks in the event the pump malfunctions.
  6. The Ecoflo Coco Filter Concrete Shell Closed Bottom Models (ECC-500G, ECC-600G, ECC-860G, ECC-400P, ECC-500P, ECC-600P, and ECC-860P) are registered to be used with specific sewage tanks fabricated by a locally specified manufacturer(s) determined by Premier Tech Aqua. These concrete tanks must have engineering review and approval from the Minnesota Pollution Control Agency. Locally obtained tanks must also meet any design criteria agreed on by NSF and Premier Tech Aqua as critical to the treatment process. Sewage tank(s) shall be designed to withstand the pressures to which it will be subject to. Tanks and all pipe penetrations, risers, and other connections to the tank shall be watertight.
  7. Systems installed using Ecoflo Coco Filter, Closed Bottom Models, shall be equipped with an effluent screen, consistent with the type used during the Standard 40 National Sanitation Foundation test of the product. An alarm device is required in the event the effluent screen malfunctions.
  8. Each system must be delivered with an installation manual and owner's manual for the Ecoflo Closed Bottom Models. Each unit must be installed in accordance with the manufacturer's installation manual.

9. All systems shall be designed and operated with (a) suitable alarm device(s) should either, or both, the effluent screen, or effluent pump malfunction.
10. This treatment product is a Minnesota-registered product for Type IV systems.
  - For Treatment Level B, effluent loading rates to the soil, method of distribution, and vertical separation requirements shall meet the minimum requirements contained in Minn. R. ch. 7080.2350.
  - For Treatment Levels A-2, B-2 or C, effluent loading rates to the soil, method of distribution, and vertical separation requirements shall meet the minimum requirements contained in Minn. R. ch. 7080.2150.
11. Systems may only be designated as Type IV systems when designed and installed per the drawings submitted as part of initial Application for Product Registration, dated September 18, 2015, and subsequent documents submitted prior to product registration.
12. As a Type IV system, the system must be constructed and operated under the required local permits.
13. The level of maintenance required for the Ecoflo Coco Filter, Closed Bottom Models shall be as specified in the products Operation and Maintenance Manual.
14. For systems registered as meeting the requirements for Treatment Levels B, testing for fecal coliform bacteria is required per the local operating permits when reduced vertical soil separation is employed.
15. As specified in the Owner's Manual, limitations of the product are identified. The manufacturer is responsible to provide a listing of other known limitations, made available on the company's website or other means.
16. All used filter medium removed from Ecoflo Coco Filter, Closed Bottom Models shall be removed and disposed of by an MPCA licensed Installer, Service Provider, or Maintainer. The used filter materials shall be disposed in a manner that meets the requirements of Minn. R. ch. 7080.2500 subp.3.
17. Training shall be provided to MPCA-licensed Subsurface Sewage Treatment Systems practitioners before designing, installing, or providing service to the Ecoflo Coco Filter, Closed Bottom Models registered for use in Minnesota.
18. During the period of product registration and as part of the renewal process, systems using registered treatment products are subject to an audit by the MPCA.

Marie-Christine Belanger

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**Please be advised that this registration expires on December 31, 2025.** Manufacturers desiring to continue product registration beyond this date must obtain MPCA renewal according to the requirements in Minn. R. ch. 7083.4040 (E). If the product has changed or is retested according to the protocol required for registration, renewal shall be based on the most recent test results.

If the MPCA finds the product has changed in any way that may affect performance, it may not be renewed and must meet the requirements for initial registration.

The MPCA is in no way endorsing these products or any advertising and is not responsible for any situation which may result from its use or misuse. The MPCA is not liable for any product failure and these statements are not intended and cannot be relied upon to establish any substantive or procedural rights with the state of Minnesota or the MPCA, either express or implied, that can be enforced in litigation or any administrative proceeding.

If you have any questions, please contact Freya Linnett at 651-757-2724 or by email at [freya.linnett@state.mn.us](mailto:freya.linnett@state.mn.us).

Sincerely,



*This document has been electronically signed.*

Freya Linnett  
Environmental Specialist  
Municipal Division

FL:map

cc: File