

Ecoflo® Biofilters – Concrete shell

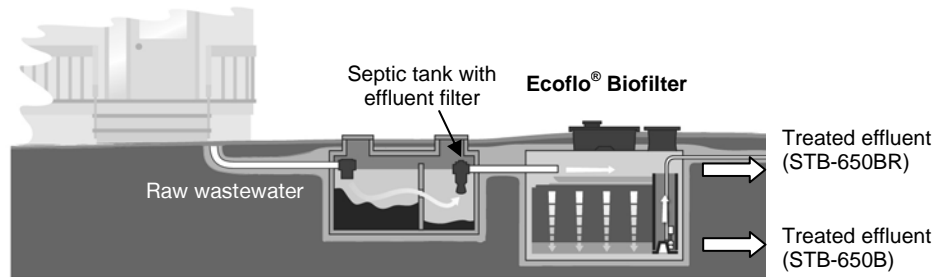
Owner's Manual – USA

Congratulations on your purchase of an Ecoflo® Biofilter system from Premier Tech Aqua (PTA). With the Ecoflo® Biofilter system, you have wisely chosen to protect your health as well as the environment. This manual contains information on system operation, maintenance, guidelines for use and warranties for the models STB-650B/BR. For additional information, please contact our customer service at 1 800 632-6356 or visit our website at PREMIERTECHAQUA.COM.

Operating Principle

The Ecoflo® Biofilter models STB-650B and STB-650BR are made of a concrete shell enclosing a natural filtering media to treat the wastewater coming from a septic tank, before it is discharged into the environment.

The Ecoflo® Biofilter's operating principle allows the system to be used continuously or intermittently without requiring any particular precaution (see Guidelines for Use) and without any impact on the quality of the treatment. No action is required from the owner to start the system.



Your complete **septic system** includes a septic tank with an effluent filter, one or more Ecoflo® Biofilters and, depending on the type of installation, a pumping station and/or a flow divider.

The model and the number of Ecoflo® Biofilters required are determined according to the number of bedrooms in the residence and/or the total daily flow of wastewater of the residence, or domestic waters from other types of buildings.

Guidelines for Use

Type of wastewater that can be treated by an Ecoflo® Biofilter:

Domestic wastewater (e.g.: wastewater from individual residences).

It is **NOT RECOMMENDED** to discharge any of the following substances into the septic system:

- Water softener backwash;
- Oil and grease (engine oil, cooking oil, etc.);
- Wax and resin;
- Paint and solvent;
- Petroleum products;
- Pesticide of any kind;
- Any kind of septic tank additive;
- Toxic substances;
- Anything not easily biodegradable (e.g. coffee beans, cigarette butts, sanitary napkins, tampons, condoms, cotton swab, etc.).



AND:

- NEVER cover or bury the access lids of the Ecoflo® Biofilter;
- NEVER open or enter the Ecoflo® Biofilter without prior authorization;
- DO NOT use more than ONE (1) RISER PER ACCESS of the Ecoflo® Biofilter STB-650B/BR. Use only PTA products: STR-080 extension kit for main access and STR-080SP extension kit for secondary access if necessary;
- NEVER plant trees within 16'5" of the Ecoflo® Biofilter lid and within 6'7" of the absorption bed;
- NEVER connect a drain pipe, roof gutter, sump pump or air conditioner unit drain to the septic system;
- NEVER discharge water coming from a spa or a pool backwash into any component of your septic system;
- NEVER discharge wastewater coming from a recreative vehicle (camping trailer, caravan, etc.) into any component of your septic system;
- DO NOT let anything accumulate on top of the septic system (e.g.: blown snow). The surcharge can cause damage to your system;
- NEVER use an automatic toilet bowl cleaner;
- NEVER use a garbage disposal or sewage pump (upstream of the septic tank) without having an Effluent Filter EFT-080 in your septic system. Call PTA's customer service for information.

By respecting these guidelines, you contribute to the proper functioning of your septic installation and increase your chances to lengthen the life of the filtering media of your Ecoflo® Biofilter.

Owners Responsibility

The owner must respect the laws and regulations in force concerning the effluent quality of the system and its discharge into the environment.

Keep heavy weights off your septic installation

Never drive vehicles or place objects weighing more than 500 lb within 16'5" of your Ecoflo® Biofilter's lid. If you are planning to do some landscaping or any other type of work, **make sure you advise those involved** so they do not damage your septic system. **Do not shovel or blow snow that would accumulate on top of the septic system.** The overload could cause damage. Mark or indicate the location of your system's components.

About your home

The home must be equipped with an air vent that is in proper working order and complies with the applicable standards. **Premier Tech Aqua** strongly recommends using a 4" Ø pipe for the air vent. Any change in the use or function of your home, or any modification to your Ecoflo® Biofilter must be authorized by the local authorities, and **Premier Tech Aqua** must be informed. The warranty for the Ecoflo® Biofilter will be void if this condition has not been fully respected.

Maintenance

The owner of a biofiltration system **shall follow the manufacturer's recommendations regarding the maintenance of the system.** For that purpose, he must at all times have a valid contract with the manufacturer or its representative, and **a copy of the contract must be filed with the local authorities.**

Annual maintenance is important to the proper operations of your Ecoflo® Biofilter and essential to maintain its warranty. Therefore, your Ecoflo® must receive an annual service for the duration of its useful life. According to local regulation, more than 1 visit per year could be required.

The maintenance of your Ecoflo® Biofilter is carried out by **Premier Tech Aqua** or an authorized agent. This service includes a visual inspection of all components and verification of operation, as well as maintenance of the filtering media. **Easy access to your system's lid is essential for maintenance and for filtering media replacement**



purposes. You will be given a maintenance record after each inspection, which you should keep with this manual in a safe place.

At the end of its eight (8) year useful life, the filtering media of your Ecoflo® Biofilter must be replaced before its condition likely reduces the treating performance of the system. The filtering media is easily pumped out with the help of a truck usually used to empty septic tanks. The installation of the new filtering media is performed by an authorized agent. Before its replacement, the condition of the filter is thoroughly analyzed by one of our specialists. If the filtering media is not solicited in an abusive manner and if the guidelines for use are respected, the filtering media might be extended for an additional year.

To know more regarding the maintenance of your Ecoflo Biofilter®, refer to your maintenance agreement. If you need assistance or more information, we invite you to call our customer service at **1 800 632-6356** or to visit our web site at **PREMIERTECHAQUA.COM**.

Septic tank

Empty your septic tank regularly. This helps keep your septic system in proper working order. The pumping standards of the septic tank are prescribed or recommended by local authorities and must be respected.

If your home is equipped with a garbage disposal or a sewage pump, we strongly recommend emptying your septic tank more frequently. The use of this kind of equipment increases the amount of sludge in the septic tank.

We recommend that you keep proof of pumping (invoice) with this owner's manual so as to keep a record of complete septic system maintenance.

Effluent filter

Under normal conditions of usage as described in the present document, the effluent filter (EFT-080 model or any equivalent approved by Premier Tech) should operate efficiently for many years. As such, it must be cleaned every time the septic tank is pumped, as established or recommended by local authorities

Particulars of the Ecoflo® Biofilter model STB-650BR (with a pump)

The **Ecoflo® Biofilter STB-650BR** integrates a pumping station that raises the treated effluent to an appropriate disposal method (subsurface discharge, tertiary treatment system or into a watercourse) in accordance with existing regulations. The electro-mechanical components included in this system are:

Visual and audio alarm system

The pumping station is equipped with a high water level float connected to an alarm system. This alarm system must be installed inside the residence so to be heard as soon as it comes on. The following information describes how this system operates.

The red light comes on when the water level is unusually high. A verification must then be performed.

The "TEST" button allows checking if the alarm system is working properly. When the test is done, the red light and the audio alarm should come on.

If the alarm comes on because of a high water level, call **Premier Tech Aqua** for support. The alarm can be turned off by pressing the "SILENCE" button.

During a power failure, the alarm system will function with a 9 volt alkaline backup battery (not included).

NOTE: Replace the emergency battery every 12 months and each time the alarm comes on or there is a power failure. When the battery is low, short beeps will be heard at a frequency of one beep per minute. Replace the battery immediately when this occurs.



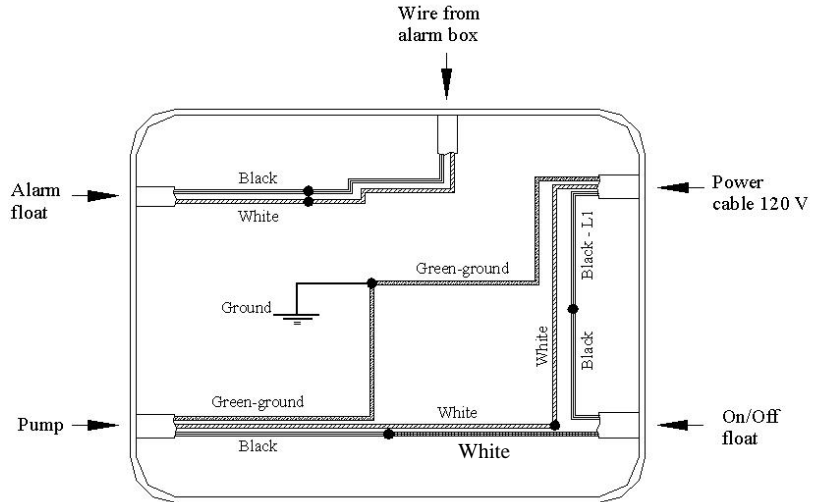
**High water level
alarm for pumping**

To replace the battery, follow this procedure:

- Unplug the alarm panel and remove it from the wall (the battery is located on the side).
- Open the battery cover and replace the battery with a 9 volt Nicad type.
- Close the battery cover and reinstall the alarm panel and plug it.
- If the alarm comes on at start up, press the **RESET/TEST** button to initialize it.

Pump and alarm power box

The electrical connections must be performed by a **certified electrician**. Furthermore, the use of waterproof wire connectors is mandatory. **Premier Tech Aqua** recommends installing the power box on top of the insulating board, in the access to the pump, to avoid problems with humidity.



What to do in Case of...

Flooding

Certain sites are prone to flooding or have high groundwater table level. This can lead to a malfunction of the **Ecoflo® Biofilter** or any other septic system. If this happens, contact **Premier Tech Aqua**.

Backflow

Backflow rarely occurs in homes. It is generally caused by poor septic tank maintenance. Your septic system installer or septic tank pumper can usually take care of the situation.

Odours

The position of the air vent, as well as other factors unrelated to the **Ecoflo® Biofilter**, can prevent proper dispersion of septic gases and lead to odours. If this happens, contact **Premier Tech Aqua** for solutions.

**FOR ANY PROBLEM, QUESTION OR COMMENT,
DO NOT HESITATE TO CONTACT OUR CUSTOMER SERVICE
AT 1 800 632-6356**



1 800 632-6356
418 862-6642
pta@premiertech.com
PREMIERTECHAQUA.COM

The information contained in this document is based upon the latest information available at the time of publication and is designed to provide you with a general introduction to our products. We make no warranties or representations as to its accuracy. We are continually updating and improving our products and reserve the right to amend, discontinue, alter or change specifications and prices without prior notice. Ecoflo® is a brand of Premier Tech Ltd. The Ecoflo® Biofilter is protected under patents: Canada 2 149 202, 2 022 097 and 2 499 637, USA 5 618 414, 5 206 206 and 7 097 768 and Europe 0 836 585 and 1 539 325.

© Premier Tech Ltd, 2010

Certificate of Warranty for Ecoflo® Biofilters STB-650B/BR

1. PREAMBLE

Premier Tech Technologies Ltd. (hereinafter called "Premier Tech") is proud to provide its customers with an exclusive wastewater treatment system guaranteed by an innovative warranty.

For the purposes of this warranty, "Customer" shall mean the person who has acquired an **Ecoflo® Biofilter STB-650B** and/or **STB-650BR** (hereinafter called "Initial Purchaser") as well as any subsequent purchaser (hereinafter called "Subsequent Purchaser(s)"), according to the dispositions of paragraph 8 of this present warranty. "Successor(s)" shall mean any other person entitled to exercise Customer's rights under the law.

2. NATURE OF THE WARRANTY

Premier Tech warrants to the Customer that the filtering media of the **Ecoflo® Biofilters STB-650B/STB-650BR** will function properly for a period of eight (8) years starting on the date of purchase by the Initial Purchaser.

Premier Tech also warrants the components of the **Ecoflo® Biofilters STB-650B/STB-650BR**, except for the concrete components of all models, and for the pump in the **Ecoflo® Biofilter STB-650BR**, against any manufacturing defects for a period of ten (10) years starting on the date of purchase by the Initial Purchaser. The pump included in the **Ecoflo® Biofilter STB-650BR** is guaranteed for two (2) years, parts and labor, starting on the date of purchase by the Initial Purchaser. Premier Tech offers no warranty on the **Ecoflo® Biofilter** concrete shell but in accordance only with the concrete manufacturer's warranty policy.

This warranty of effectiveness, sound manufacture and durability is given by Premier Tech to the Customer in addition to the legal warranty or other Customer's rights in accordance with any applicable law.

The conventional warranty of Premier Tech is expressly limited to the text of this certificate and valid if the **Ecoflo® Biofilter STB-650B/STB-650BR** installation has been made in accordance with applicable regulations and with the manufacturer's recommendations.

3. NOTICE

For this warranty to be valid, the Customer must notify Premier Tech in writing immediately upon the appearance of any indication of an anomaly or irregularity in the **Ecoflo® Biofilter STB-650B/STB-650BR**.

Such notice must be given by mail to Premier Tech's head office at 1, avenue Premier, Rivière-du-Loup, Québec, G5R 6C1, CANADA or by facsimile at (418) 862-6642.

Upon receipt of this notice, Premier Tech will examine the situation and, if necessary, take appropriate corrective measures in accordance with the terms of the present warranty.

4. GENERAL EXCLUSIONS

The following damages or problems are excluded from the warranty:

- (a) Any damage or problem caused by a fortuitous event or "force majeure", such as, without limiting the generality of the foregoing, earthquake, flood, hurricane, landslide, explosion or dynamiting;
- (b) Any damage or problem caused by the fault or act of a third party;

(c) Any damage or problem arising from a defective installation carried out by a person trained by Premier Tech, or any installation, modification, correction or addition carried out by a person not trained by Premier Tech;

(d) Any damage or problem arising from any installation, modification, correction or addition to the treatment system carried out after installation of the **Ecoflo® Biofilter STB-650B/STB-650BR** without Premier Tech's prior written approval;

(e) Any damage or problem caused by the use of a septic tank which does not comply with the applicable regulations and/or with Premier Tech's specifications, as described in the owner's manual;

(f) Any damage or problem, if it is demonstrated that the **Ecoflo® Biofilter STB-650B/STB-650BR** has not been used in accordance with the instructions and guidelines contained in the owner's manual;

(g) Any damage or problem, if the maintenance of the **Ecoflo® Biofilter STB-650B/STB-650BR** has not been executed by a person authorized by Premier Tech in accordance with the maintenance agreement;

(h) Any damage or problem caused by the fault or action of the Customer its Customer's Successors including, without limiting the generality of the foregoing, refusal to allow access to the system for maintenance;

(i) Any damage or problem, if it is found that the Customer or Customer's Successors have modified or changed the use of the property serviced by the **Ecoflo® Biofilter STB-650B/STB-650BR** resulting in the alteration of the nature or quality of wastewater being treated and/or that constitutes a violation of the applicable regulations;

(j) Any damage or problem caused and/or resulting of the works performed in order to access to the **Ecoflo® Biofilters STB-650B/STB-650BR**, including, without limiting the generality of the foregoing, excavation, snow-removal or demolition;

(k) Any damage or problem resulting from site's and/or soil's prior condition not reported or not properly reported to Premier Tech by the Customer or the person performing the site investigation.

5. PARTICULAR EXCLUSIONS

It is further expressly understood that the Customer may not carry out or cause to be carried out any repair or verification of the **Ecoflo® Biofilters STB-650B/STB-650BR** sold, or attempt to carry out any work or to apply any corrective measures whatsoever to said work, before notifying Premier Tech in accordance with the provisions of section 3 of this warranty and before Premier Tech has visited the site, within a reasonable time following receipt of said notice, in order to evaluate the situation.

If the Customer carries out or causes to be carried out repairs, or attempts to repair or to apply corrective measures of any kind whatsoever to the **Ecoflo® Biofilters STB-650B/STB-650BR** sold, without prior authorization by Premier Tech, this warranty shall be considered null and void and Premier Tech shall be considered completely

Certificate of Warranty for Ecoflo® Biofilters STB-650B/BR

discharged from any and all of its obligations under this warranty.

6. INDEMNITIES AND DAMAGES

Premier Tech's liability and obligations under this warranty shall be in any event limited to the replacement of the filtering media and/or of one or several components of the **Ecoflo® Biofilters STB-650B/STB-650BR** as well as the supply of the required labor, if applicable, in accordance with sections 3 and 4.

7. LIMITATION OF LIABILITY

Premier Tech's compensation, indemnification or obligation shall be limited to the provisions of section 6 of this certificate of warranty and Premier Tech shall not be held liable for any other damage or loss which may have been suffered or incurred by the Customer or any third party in connection with the **Ecoflo® Biofilters STB-650B/STB-650BR**.

8. TRANSFER OF OWNERSHIP

In the event of transfer of ownership, sale, assignment or disposition in any other way of Customer's property to a third party, this warranty shall continue to apply if and only if the Subsequent Purchaser or the Successor confirms, by transmitting to Premier Tech the attached "Notice of Warranty Transfer", within a reasonable delay, that he/she is the new owner of the property, he/she understands and is aware of the content of this warranty certificate and accepts its terms and conditions.

The person proceeding to the transfer of the property, sale, assignment or any other type of disposition, undertakes to hand over to the Subsequent Purchaser or the Successor, the warranty certificate remitted upon completion of the work, as well as the owner's manual and, when applicable, the maintenance and environmental monitoring program for the **Ecoflo® Biofilters STB-650B/STB-650BR**.

Default to respect the conditions of the present Section 8 may cause, at Premier Tech's discretion, abandonment or rejection of the present warranty.

9. INSPECTION

The Customer and/or the Customer's Successors shall allow Premier Tech or its duly authorized representative to carry out all necessary monitoring and inspection as required for implementation of this warranty.

If the Customers or the Customer's Successors notifies Premier Tech of an alleged defect or malfunction of the **Ecoflo® Biofilter STB-650B/STB-650BR** and that after inspection, it is found that no such defect or malfunction is revealed, or, that the warranty is excluded or doesn't apply, a minimum charge of \$150.00 USD plus direct expenses shall be paid by the Customer and/or Customer's Successors for the cost of such inspection.

10. INTERPRETATION

The terms of this warranty shall be interpreted and governed by the law in force in the Province of Quebec and the provisions of this warranty.

11. PRIORITY OF THE CERTIFICATE OF WARRANTY

This warranty supersedes any contract or understanding, written or verbal, entered into between the Customer and Premier Tech. In case of contradiction between this warranty and any other documents and/or contracts entered into between the Customer and Premier Tech, this warranty shall prevail.

12. SUBSEQUENT PURCHASERS AND SUCCESSORS

Subject to the provisions of this warranty and of section 8 in particular, this warranty shall continue to apply to the Subsequent Purchasers and Customer's Successors and shall continue to have full effect until the end of the agreed warranty period provided for in section 2 of this certificate.

Notice of Warranty Transfer

Send a copy to Premier Tech Aqua or to an authorized representative

Name of the previous Owner: _____

I, the undersigned _____ hereby declare that I have acquired the property located at

Number	Street	City	Province
_____		()	_____
Postal code		Phone number	

I have read and I understand the warranty provided by Premier Tech Technologies Ltd for the Ecoflo® Biofilter. I wish to benefit from this warranty for the remaining period, if any, and from the date of the transfer of ownership, that is _____; I accept to be bound by this warranty and by any and all of the clauses, undertakings and conditions set forth therein; I have had the opportunity to examine the Ecoflo® Biofilter and declare myself satisfied with it at the time of this transfer. I ask Premier Tech Technologies Ltd to take note of this transfer of ownership.

Signature of the new owner: _____ Date: _____

Name of new owner: (print) _____

New owner's e-mail address: _____