

Ecoflo Biofilter – Polyethylene – ST/STB Models

Installation Guide – Canada & USA

This guide contains the information required to install a Polyethylene Ecoflo Biofilter Certified under CAN/BNQ 3680-600 and NSF/ANSI Std. 40 requirements. The installation must be performed by an authorized installer. A list of installers can be provided by contacting our customer service at 1 800 632-6356.

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1. Technical data of the polyethylene Ecoflo Biofilter

Component material

- **Shell:** polyethylene.
- **Cover, central support, tipping bucket, distribution plates and sampling device:** polyethylene.
- **Filtering media:** natural fiber.

Table 1 Technical Characteristics ST/STB-570-P/PR-DV

Models	ST/STB-570-P/PR-DV		
Type of shell	Polyethylene		
Maximum daily flow	1,755 L/d (520 US gal./d)		
Type of disposal	Infiltration	Gravity	Pumped
Length (A)*	3,380 mm (133")		
Width (B)*	2,000 mm (79")		
Height (C)*	1,850 mm (73")		
Inlet height from bottom (D)*	1,260 mm (50")		
Inlet height from top (E)*	590 mm (23")		
Outlet height (Fg and Fp)*	Perforated bottom	76 mm (3")	1,240 mm (49")
Weight** (including internal components and filtering media)	1,120 kg (2,460 lb)	1,190 kg (2,620 lb)	1,200 kg (2,640 lb)
Dosing volume available	N/A	N/A	435 L (115 US gal)
Emergency storage capacity (above alarm float up to inlet pipe)	N/A	N/A	4,500 L (1,200 US gal)

* See drawings Figure 1.

** Weights are approximate and not binding (for handling and lifting purposes only).

Table 2 Technical Characteristics ST/STB-730-P/PR-DV

Models	ST/STB-730-P/PR-DV		
Type of shell	Polyethylene		
Maximum daily flow	2,250 L/d (675 US gal./d)		
Type of disposal	Infiltration	Gravity	Pumped
Length (A)*	4,140 mm (163")		
Width (B)*	2,050 mm (81")		
Height (C)*	1,850 mm (73")		
Inlet height from bottom (D)*	1,260 mm (50")		
Inlet height from top (E)*	590 mm (23")		
Outlet height (Fg and Fp)*	Perforated bottom	76 mm (3")	1,240 mm (49")
Weight** (including internal components and filtering media)	1,355 kg (2,990 lb)	1,405 kg (3,100 lb)	1,415 kg (3,120 lb)
Dosing volume available	N/A	N/A	587 L (155 US gal)
Emergency storage capacity (above alarm float up to inlet pipe)	N/A	N/A	5,300 L (1,400 US gal)

* See drawings Figure 1.

** Weights are approximate and not binding (for handling and lifting purposes only).

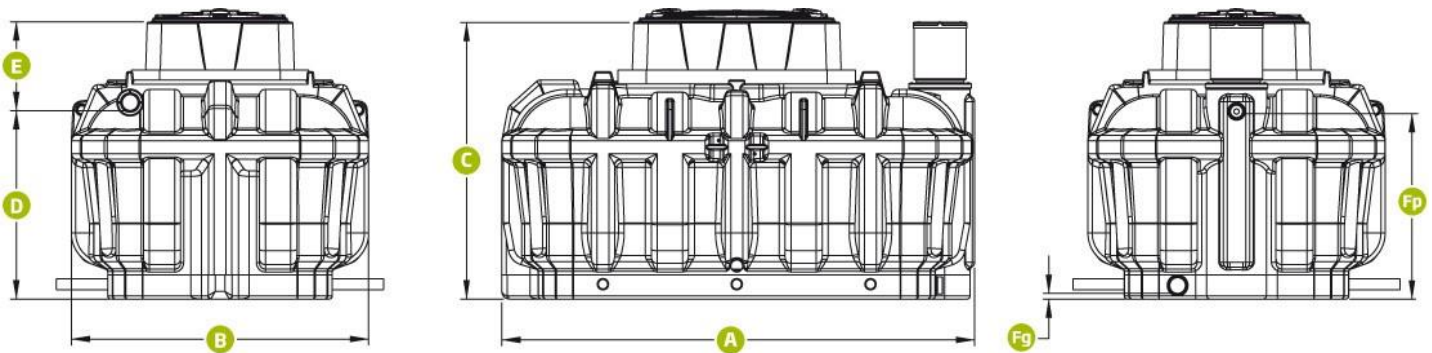


Figure 1 Design ST/STB model

2. Location of components and specific instructions

2.1. Installation diagrams

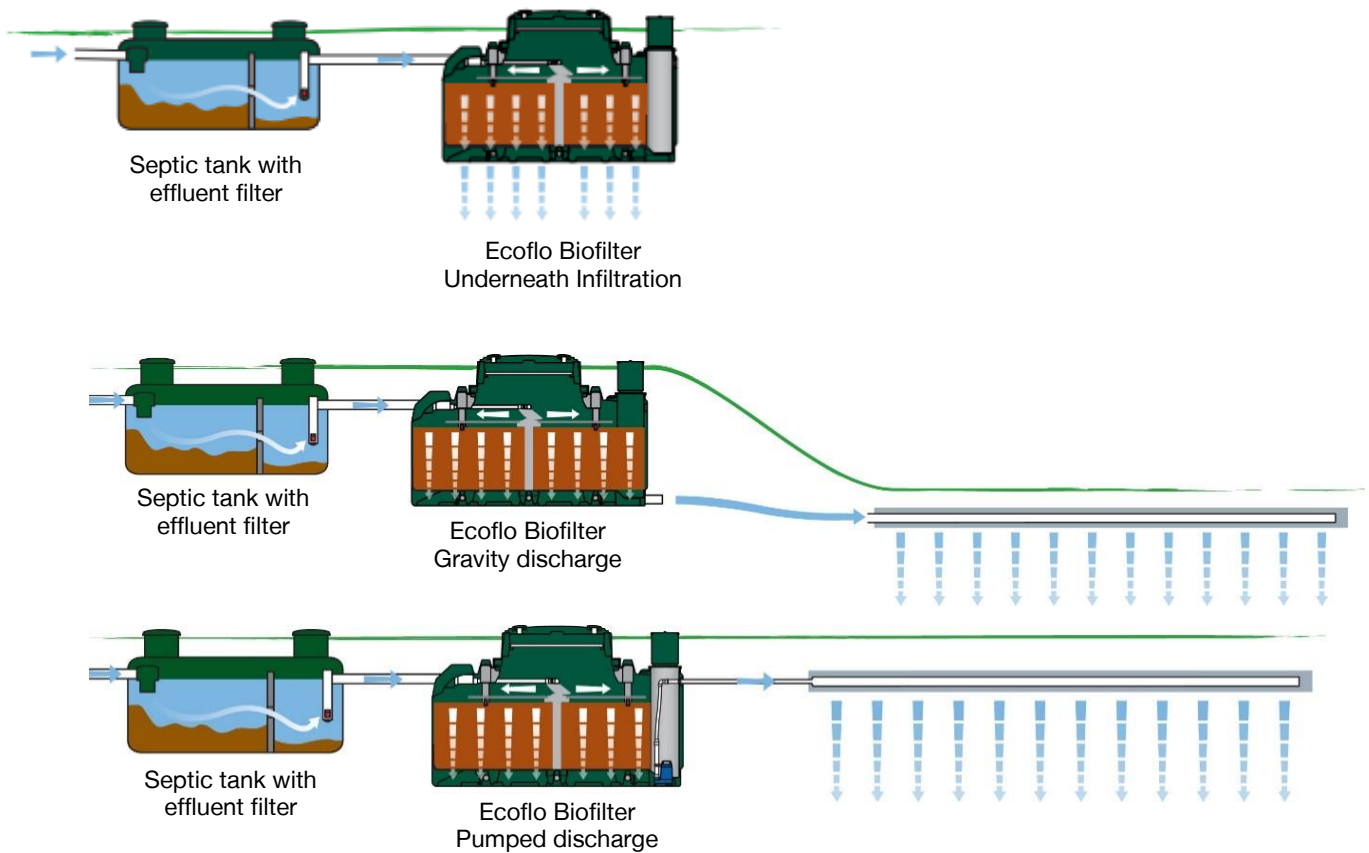


Figure 2 Typical installation diagrams

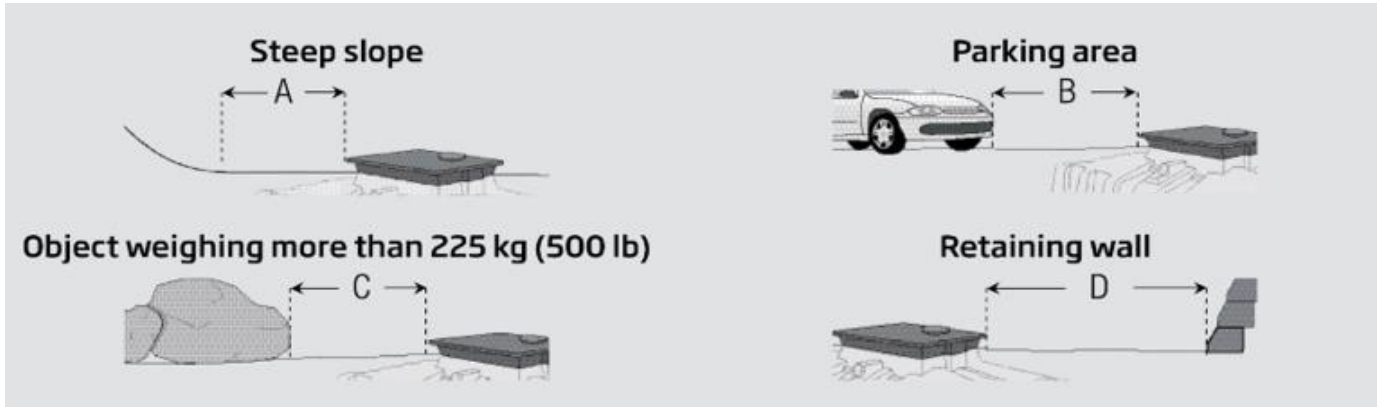
2.2. Manufacturer's minimum distances requirements

The wastewater treatment system must be installed in a place:

- Where there is no motorized vehicle traffic;
- In an area that is not likely to be flooded and where it will not be submerged (depending on the situation, a drain may be required around the septic tank to prevent installation of the septic tank in ground water).
- That is accessible at all times for maintenance, inspection and emptying;
- That complies with the distances in Table 3.

Table 3 Minimum distances to be maintained in accordance with Premier Tech Aqua specifications

Reference point	Polyethylene Ecoflo Biofilter
Bottom of a talus, surplus backfill (A)	13' (4 m)
Parking area (B)	13' (4 m)
Vehicle or object weighting more than 500 lb (C)	13' (4 m)
Retaining Wall (D)	13' (4 m)
Finished landscaping vs base of Ecoflo lid (E)	2" (50 mm)
Seasonal High Groundwater Table (SHGT) vs. base of Ecoflo unit (Fp)	Do not install in saturated soil



Distances may be higher to comply with local regulation

2.3. Installation conditions

2.3.1. Septic tank

The septic tank must be installed in compliance with the following instructions:

- Both openings must be extended to the soil surface through watertight and insulated chimneys and equipped with watertight covers (keep clearance distance with final grade of minimum 50 mm (2"));
- The depth of the backfill piled over the tank must not exceed 90 cm (36");
- The installation must be 100% watertight and only receive the residence's domestic wastewater (no foundation, land or roof drainage);
- The septic tank must be placed where it is not at risk of being flooded or submerged (depending on the situation, it may be necessary to provide for drainage around the septic tank to prevent groundwater from reaching a level that would pose a flooding risk);
- The manufacturer's specifications.

2.3.2. Polyethylene Ecoflo Biofilter

The Ecoflo Biofilter must be installed in compliance with the following recommendations and **it is important to notify all stakeholders (installer, landscaper, owner, snow removal company, etc.) of them** to prevent damage to the wastewater processing system components.

- Ensure access to the covers of your septic installation at all times. NEVER cover them with mulch, soil or a fixed structure.
- Once your septic installation has been completed, the covers must be 50 mm (2") higher than the surface of the landscaped terrain.
- **NEVER install extensions over the access of the polyethylene Ecoflo Biofilter.**
- **Ensure an upslope interceptor drain or water diversion berm is installed to direct surface and/or ground water away from the Ecoflo module and soil absorption system;**
- NEVER plant trees within 2 m (6.5 ft.) of the infiltration zone.
- NEVER connect a land or foundation drainage line, gutter spout, sump or bilge pump or air conditioner drain to your septic installation.
- **NEVER pile up more than 300 mm (12 in.) of backfill on the shell.**
- NEVER drive a vehicle or place objects weighing more than 225 kg (500 lbs.) within a radius of 4 m (13' 1") from the covers of the Ecoflo Biofilter.

- Ensure a rapid regrowth of the vegetation to prevent soil erosion.
- Ensure that the maximum seasonal groundwater level never exceeds the base of the shell.
- When dual biofilters are installed with pumped discharge, it is possible to combine a watertight-bottom biofilter with gravity discharge and a watertight-bottom biofilter with an integrated. The base of a biofilter with a gravity discharge must be from 25 mm (1 in.) to 75 mm (3 in.) higher than the base of a biofilter with pumped discharge.

Also, the Ecoflo Biofilter with a perforated bottom must be installed in a location:

- Where the soil is permeable or very permeable;
- That is never susceptible of being flooded or submerged by ground water. If that is the case, an Ecoflo Biofilter with a watertight bottom should be used. Please contact our customer service department for further information.

By respecting these guidelines, you contribute to the proper operation of your wastewater treatment system. Failure to abide by these guidelines may void the warranty, at Premier Tech's discretion

3. Polyethylene Ecoflo Biofilter components description

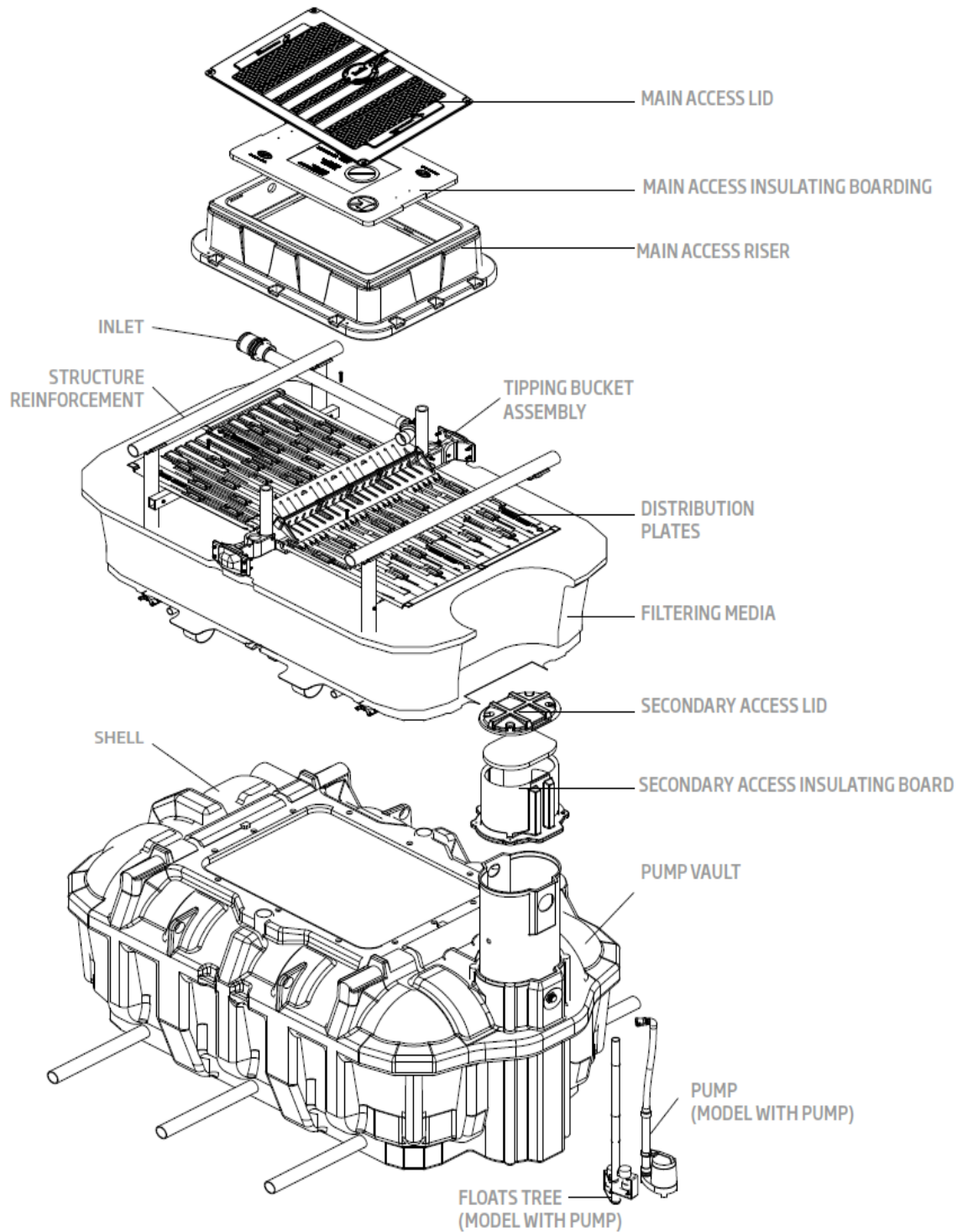


Figure 3 Exploded view of the Polyethylene Ecoflo Biofilter STB model

Lids

- Access port for maintenance and inspection – main and secondary access;
- Air intake from the main lid provides proper air flow through the system;
- Secure both openings with bolted assemblies.

Insulating boards

- Thermally insulate the system;
- Guides airflow into the shell's air ducts (main access);
- Seals the system (main access).

Shell

- Encloses the system's components;
- Allows connection of water and air pipes;
- Collects the treated effluent (STB models).

Central support

- Supports the tipping bucket and one end of the distribution plates;
- Allows air circulation between bottom and top of the filtering media.

Support rails

- Support the other end of the distribution plates.

Tipping bucket

- Evenly distributes the wastewater on both sides of the filtering media;
- Creates hydraulic events required for proper distribution of the wastewater on the distribution plates and, at the same time, contributes to the self-cleaning of the plates.

Distribution plates

- Allow even distribution of the influent on the surface of the filtering media.

Filtering media

- Consists of a natural fibre-based filtering media;
- Promotes good biomass growth which is essential to biological treatment of the wastewater;
- Physically filters the solids contained in the influent;
- Maintains adequate humidity level required for biomass viability when there is no water going through the system for a certain amount of time.

Treated effluent collection area

- Allows proper drainage of the treated effluent;
- Allows air to circulate under the filtering media.

Pump vault / secondary access (if applicable)

- Allows air circulation between bottom and top of the filtering media;
- Allows access to the base of the system to collect a sample of the treated effluent;
- Encloses the following pumping equipment: pump, On/Off float and alarm float (models with integrated pump);
- Allows treated effluent to be sent towards the available disposal method (models with integrated pump).

4. Installation sequence

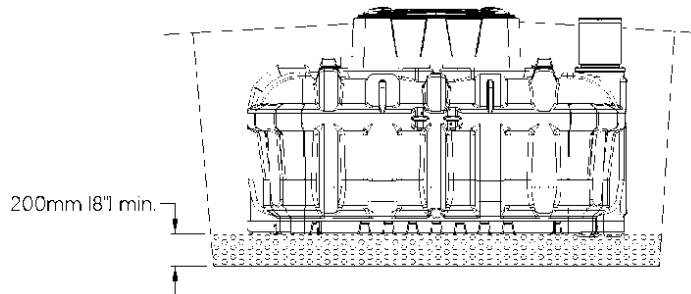
IMPORTANT: The installer is responsible for taking the necessary safety measures at all steps of the installation. This includes the use of hardhats, gloves, boots, safety glasses, masks, etc.

4.1. Septic tank

The septic tank must be installed in compliance with the manufacturer's specifications.

4.2. Excavation, bedding and placing of the perforated bottom Ecoflo Biofilter (ST models)

- Excavate and prepare the absorption bed according to the standards specified in the applicable Design Guide.
- Use clean 15 to 60 mm (½" to 2") diameter gravel. It is highly recommended to use a 20 mm (¾") diameter clean crushed stone.
- Minimum thickness of the bed: 200 mm (8").



NOTE:

- Never install the absorption bed of the Ecoflo Biofilter within 2 m (6,5') of a tree.
- **There are no risers available for polyethylene Ecoflo Biofilter models**, this is important to take into consideration when determining the absorption bed's depth.

Center the shell onto the absorption bed area. Make sure the shell is levelled and rests on all points of the previously levelled bed.

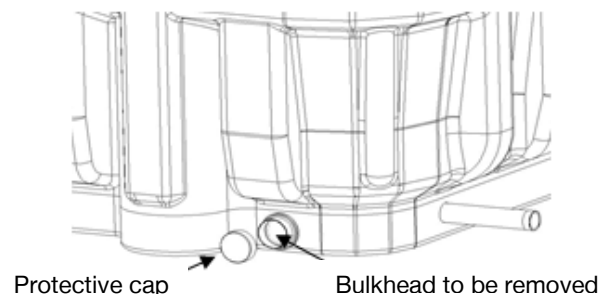
Place a geotextile (material permeable to air and water) on top of the crushed stone **around the shell only** to protect the crushed stone from contamination or obstruction by objects or particles. **There should not be any geotextile on the crushed stone under the Ecoflo Biofilter.**

4.3. Excavation, bedding and placing of the watertight bottom Ecoflo Biofilter (STB models)

Excavate an area of approximately 3.0 m x 4.5 m (10' x 15'). Depending on soil conditions, it might be necessary to add a layer of 150 mm (6") of either 0 to 20 mm (0 to ¾") diameter gravel void of any plant material or clean 20 mm (¾") diameter gravel surrounded by geotextile (over the excavated area). Place the shell in the center of the excavated area. Check that the height of the installation is adequate. **There are no risers available for polyethylene Ecoflo Biofilter models.** Make sure the shell is levelled and rests on all points of the previously levelled and compacted bed.

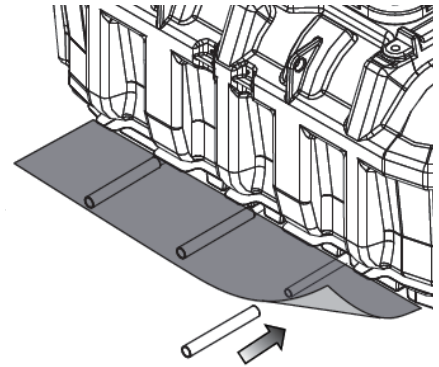
If you are installing a gravity discharge watertight bottom Ecoflo Biofilter model, before going any further with the installation, connect the effluent discharge pipe using a flexible, watertight outlet adaptor. Remove the protective cap and punch the bulkhead of the outlet adaptor. No debris resulting from that operation must be left in the Ecoflo Biofilter.

Connect the pipe to the Ecoflo Biofilter. The pipe must have a constant downward slope until it reaches the disposal area. The soil under the pipes must be properly compacted.



4.4. Ecoflo Biofilter Anchoring (STB models)

To ensure a maximum of stability, install the six (6) pipe extensions on the existing pipes assembled on the shell. Lay the geotextile provided on the extension pipes on both sides of the shell. Spread and level the fill material over and under the membranes.

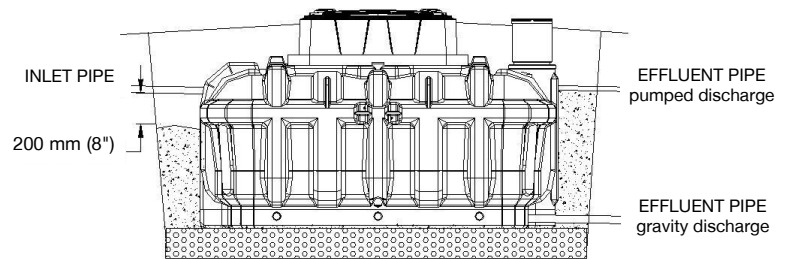


4.5. Initial backfill of the shell

Place backfill material around the shell up to 200 mm (8") underneath the invert of the inlet pipe. Start with the long sides and finish with the short sides. The backfill material must be placed with care and not dumped (do not compact with bulldozer).

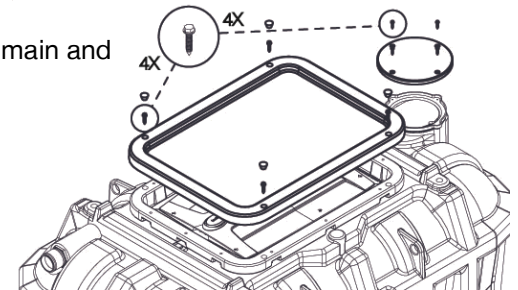
The backfill material must be sandy, with no rocks or stones.

CAUTION: Make sure the backfill material stays out of the shell during the backfill operation.

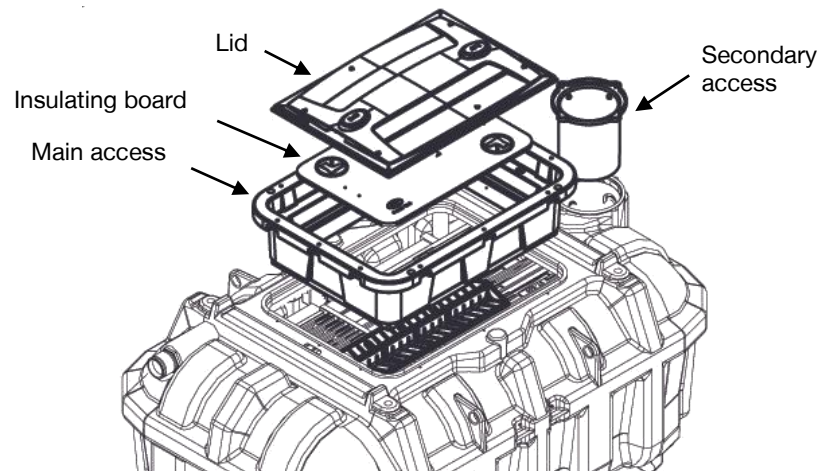
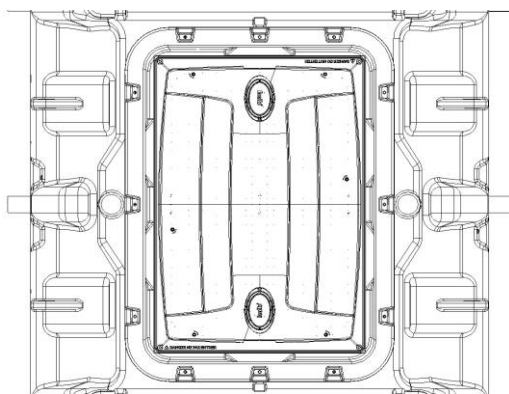


4.6. On site assembly

- Unscrew and remove the protective shipping material found on the main and secondary access.

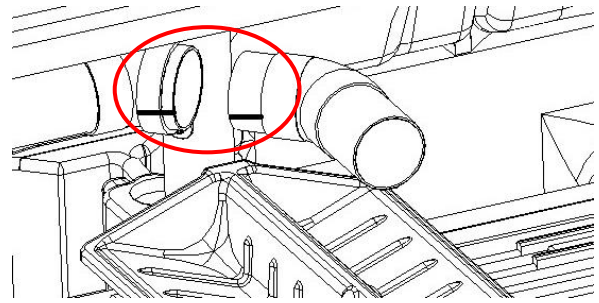


- Remove the main and the secondary access. The main access assembly includes the lid and the insulating board. To remove the lid, unscrew the four lag screws in the four corners of the lid.

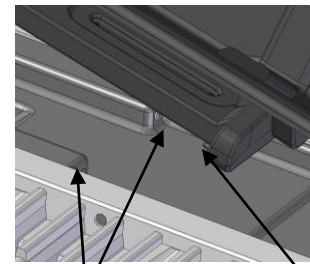
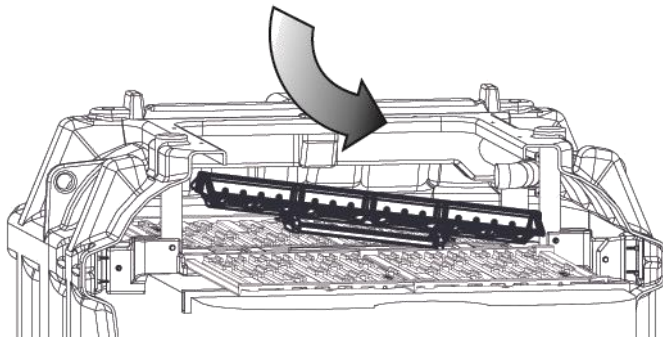


- Glue in place the elbow assembly on the water inlet pipe. Align marks to ensure that the elbow assembly is correctly positioned. Once in place the inlet pipe must be centered with the tipping bucket. The elbow assembly is packaged in the components box. This box is shipped with the biofilter and is located in the main access.

CAUTION: Do not reverse the elbow. The water inlet would then be off center.



- Attach the tipping bucket to the central support by inserting the two (2) locking catches into the central support's anchor slots. Bring down the opposite end to make sure the tipping bucket stays in place. Check the state of the tipping bucket by moving it from left to right to make sure nothing is blocking its movement.



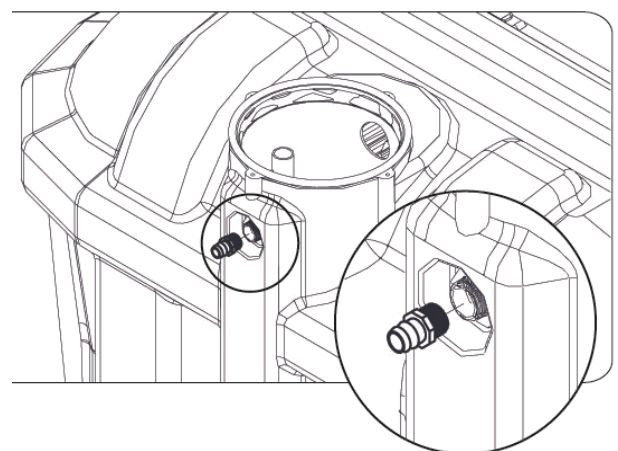
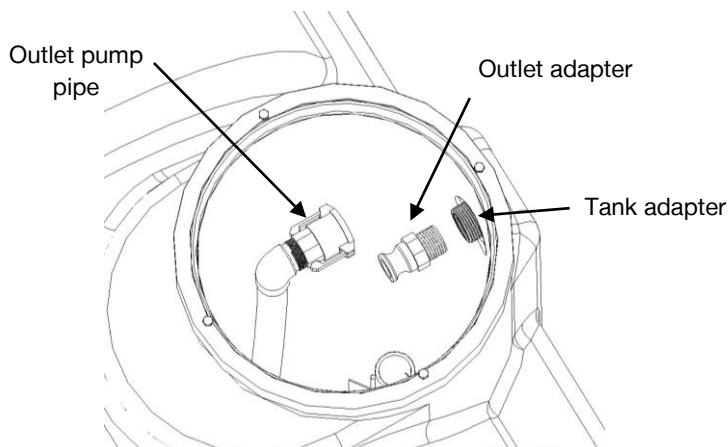
Anchor slots

Locking catch

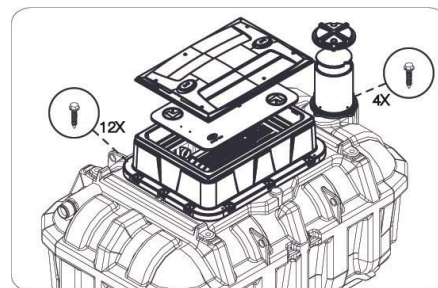
- **Make sure that:**

- The distribution plates are properly installed;
- The float tree and the pump are correctly positioned (models with integrated pump);
- The tipping bucket tilts correctly on both sides.

- Screw in the pump outlet adapters (models with integrated pump). These adapters can be found in the components box (shipped within the main access of the biofilter).



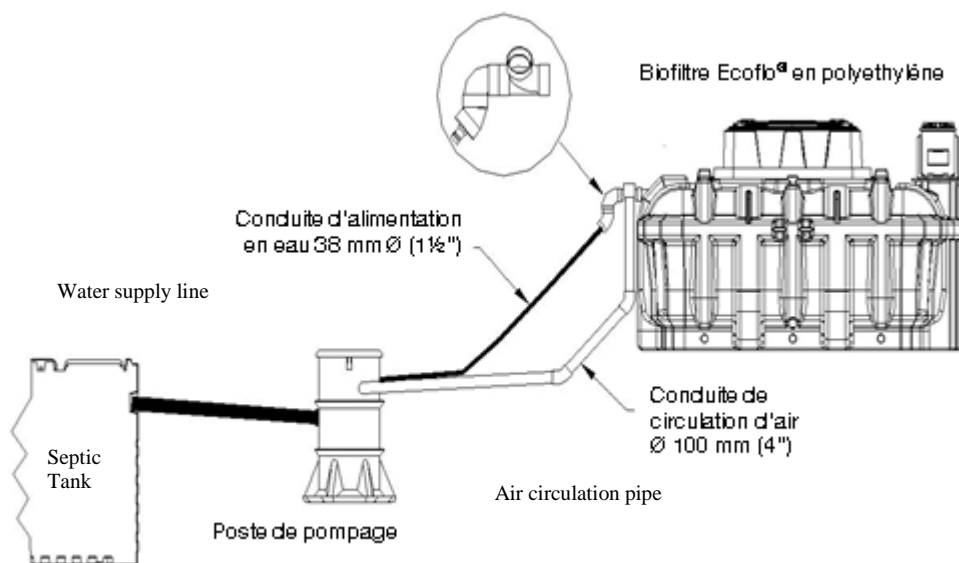
- Screw in place the main and the secondary access with the supplied lag screws and place the insulating boards and lids. Secure the lid of the main access with the four lag screws and the lid of the secondary access with the two quarter turns. The secondary access lid and insulating board are packaged in the components box (shipped within the main access of the biofilter).



4.6.1. Connection of water supply pipe when a pumping station is required to feed the Ecoflo Biofilter

When a pumping station is required upstream of an Ecoflo Biofilter, the following instructions must be taken into account:

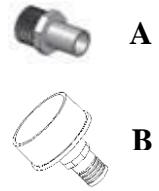
- When a pumping station is required Premier Tech Aqua recommends sending approximately 30 to 40 L (8 to 10 US gallons) of wastewater to the Ecoflo Biofilter every pump dosing cycle (10 tipping bucket events);
- The pumping station must be watertight (infiltration and exfiltration);
- The water supply pipe (flexible 38 mm (1½") Ø pipe) is connected to an inlet adapter which allows the connection to the Ecoflo Biofilter's 100 mm (4") Ø inlet pipe. **Note that the adapter is mandatory to break the stream of water coming from the pumping station;**
- An air duct must connect the pumping station to the Ecoflo Biofilter to ensure air circulation. This air duct is connected to the adapter, which is equipped with a tee-Y;
- Depending on site conditions, a forced air vent may be required;
- The pumping station must be accessible at all times.



When an installation consists either of two Ecoflo Biofilters which cannot be fed by gravity or of three Ecoflo Biofilters, a pumping station combined with a pressurized flow divider is required. Premier Tech Aqua offers several pressurized flow dividers. For more information on Premier Tech Aqua's pressurized flow divider, consult the Peripherals Section at ptzone.premiertechqua.com.

4.7. Connection of discharge pump (models with integrated pump)

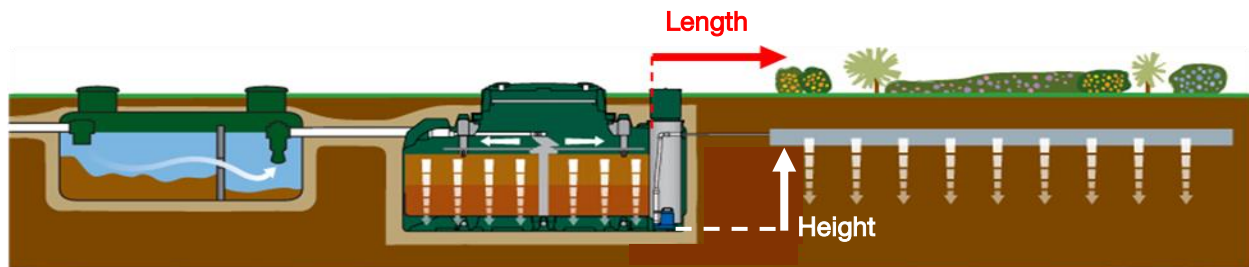
The effluent pipe from the integrated pump model must be connected to the treated effluent disposal method (absorption disposal, watercourse, etc.) using a flexible Ø 25 mm or 38 mm (1" or 1½") pipe. This pipe must be capable to withstand a minimal pressure of 700 kPa (100 PSI) and must also be compatible with underground applications. A barbed Ø 25 mm (1") coupling (**Item A**) links this flexible pipe to the biofilter's outlet. If necessary, the other end of the pipe is connected to the pipes of the treated effluent disposal method via the coupling supplied for this purpose (**Item B**). Precautionary measures against freezing must be taken if the effluent is discharged into a watercourse. Both items can be found in the components box (shipped within the main access of the biofilter).



What you should know if you use PTA's integrated pump:

- The **maximum length of the pressurized pipe** (flexible pipe) from the pump's outlet, **using a 25 mm (1") Ø pipe**, depends on the head (difference in elevation between the base of the pump and the end of the pressurized pipe). The **maximum length of the pressurized pipe** (flexible pipe) from the pump's outlet, **using a 38 mm (1½") Ø pipe**, is limited by the volume of water that returns to the Ecoflo Biofilter once the pump has stopped running. The following table presents the different allowable pipe lengths:

Head (height)	7,5 m (25')	6 m (20')	4,5 m (15')	3 m (10')	1,5 m (5')
Maximum length of the Ø 25 mm (1") pipe	---	18 m (60')	21 m (70')	24 m (80')	27 m (90')
Maximum length of the Ø 38 mm (1½") pipe	30 m (100')	30 m (100')	30 m (100')	30 m (100')	30 m (100')



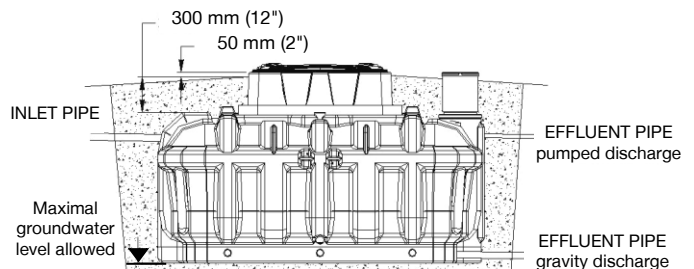
NOTE: The pipes must be installed in a way that they can drain properly.

WARNING: When there is a possibility of surface water accumulating on the lot, a drain pipe must be installed to evacuate the excess water and prevent any risk of infiltration.

4.8. Final backfill of the shell

Complete the backfill. The backfill material must be placed with care and not dumped (do not compact with bulldozer). The backfill material must be sandy with little or no rocks or stones. Allow space for ground cover and make sure the lids are at least 50 mm (2") above the surface of the landscaped lot.

Before the final backfill of the model with integrated pump, do not forget the electrical wiring (consult next section of the guide).



4.9. Pump verification and electrical wiring (models with integrated pump)

Step 1 Pump verification

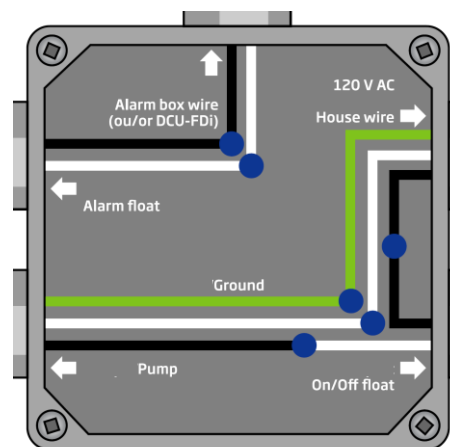
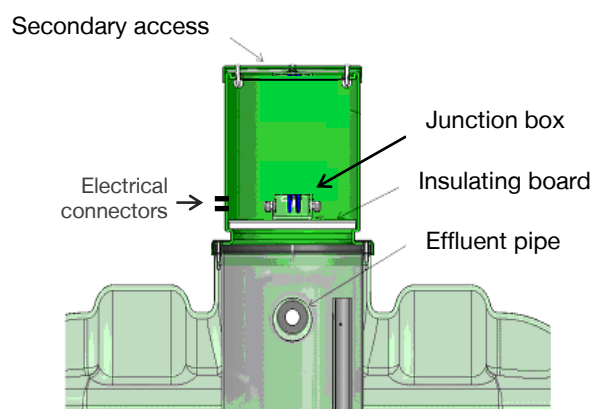
Make sure there is no debris (sand, stone, gravel, tie-wrap, electrical components, tape, etc.) in the access well when the electrical wiring is complete. Visually inspect the components inside the access well (float tree, floats, pump) to make sure they are properly installed and will work as they should.

Step 2 Electrical wiring

The electrical wiring should be executed by an electrician. To wire the system to the residence, two (2) in-ground double strand supply cables are required. It is preferable to protect the wires with the appropriate piping before burying them. The wire rating must also be done by an electrician. One of the wires will be used for the power supply line while the other one will send the alarm float signal to the alarm box (Item C) or control panel (when required).



Waterproof electrical connectors (Item E) must be used to go through the secondary access.



IF YOUR LOCAL ELECTRIC CODE ALLOWS IT make the appropriate electrical connections using the supplied parts (junction box (Item D), waterproof screw-thread wire connectors and electrical connectors (Item E)) located in the components box. First, remove the connector plugs from the float and pump wires by cutting 5 cm (2") from the end. Make 2 holes of 2 cm (13/16") in diameter in one side of the secondary access well to pass the connectors through to the other side. Insert the wiring into the system through the 2 holes. The junction box is located in the secondary access on the insulating board. Identify and insert the wires into the junction box as shown in the diagram above. Use waterproof screw-thread wire connectors for the connections to ensure the water does not affect the electrical circuit. Follow the diagram's colour code. Since the white wire of the On/Off float is connected to the pump's black wire (live wire), wrapping the white wire in electrical tape is strongly recommended. Close the junction box. Pass the electrical wires from the pumping unit through the groove in the insulating board. Place the insulating board inside the access, install the junction box on top and close the lid of the secondary access.

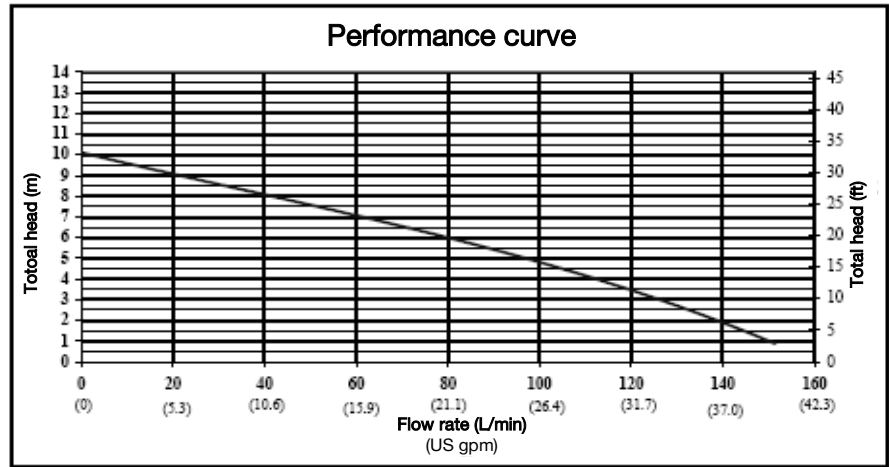
NOTE: Use two separate circuit-breakers, one for the electrical power of the pump and the other for the alarm box connection. Do not connect anything else on these circuit-breakers (for example: household appliance). They must be used for the pump and the alarm box only.

The pumping unit uses 0.25 kWh per day.

The figure on the right represents the performance curve of the pump supplied with the Ecoflo Biofilter with integrated pump. Note that this curve was obtained with clear water, the pump might not perform as well with wastewater. If you have questions about the interpretation of this curve, please do not hesitate to contact Premier Tech Aqua.

Pump characteristics:

- 0.4 HP
- 6.6 Amps
- 1 phase, 60 Hz, 115 V



4.10. System operation verification and warranty seals

The installed system is certified under **CAN/BNQ 3680-600 (2009)** and correspond to a B-IV treatment class and for the NSF/ANSi Std 40 Class 1.

Certifié BNQ Certified

CAN/BNQ 3680-600
Certificat #1338

Ecoflo®

Classe / Class B-IV

Réacteur primaire (ou fosse septique) avec préfiltre et Biofiltre Ecoflo® (alimentation sur demande)
Pre-treatment Chamber (or Septic Tank) with Effluent Filter and Ecoflo® Biofilter (demand dosed)

Réacteur primaire (ou fosse septique) avec préfiltre et Biofiltre Ecoflo® (alimentation régularisée)
Pre-treatment Chamber (or Septic Tank) with Effluent Filter and Ecoflo® Biofilter (time-dosed)

PREMIER TECH
AQUA

The installer has to select the system installed in the following sticker (see below an example for the model 5.7 with the NSF/ANSI Std 40, Class I certification and the NSF/ANSI 40 serial number).

Ecoflo® 5.7* *Meets the performance requirements of the following Standards, Refer to NSF, BNQ or CAN/BNQ official product listing.
 *Rencontre les requis de performance des normes ci-bas mentionnées. Voir la liste des produits certifiés NSF, BNQ ou CAN/BNQ.

			Max. Daily Flow Débit quotidien max.		Listed Models Modèles listés	Check Cocher
(1)	Ecoflo® Coco 17,1 US gal / ft ² * d - 700 L / m ² * d	EC7 Model Series	1 050 gpd	3 975 L/d	EC7-1050-P-P/G	<input type="checkbox"/> <input type="checkbox"/>
(2)	Ecoflo® Coco 14,1 US gal / ft ² * d - 575 L / m ² * d	ECdn Model Series	865 gpd	3 275 L/d	ECdn-865-P	<input type="checkbox"/>
(3)	Ecoflo® Coco 12,25 US gal / ft ² * d - 500 L / m ² * d	EC5 Model Series	750 gpd	2 840 L/d	ECP-750-P/G	<input type="checkbox"/> <input type="checkbox"/>
(4)	Ecoflo® Coco 9,45 US gal / ft ² * d - 385 L / m ² * d	EC FAS Model Series	570 gpd	2 160 L/d	EC-5.7-P-P/G-FAS	<input type="checkbox"/> <input type="checkbox"/>
(5)	Ecoflo® Coco 9,45 US gal / ft ² * d - 385 L / m ² * d	EC Model Series	570 gpd	2 160 L/d	EC-5.7-P-P + DIUV EC-5.7-P-P/G + FDI	<input type="checkbox"/> <input type="checkbox"/>
(6)	Ecoflo® Biofiltre 9,45 US gal / ft ² * d - 385 L / m ² * d	ST/STB Model Series	580 gpd	2 200 L/d	●	<input type="checkbox"/>
(7)	Ecoflo® Biofiltre 8,59 US gal / ft ² * d - 350 L / m ² * d	ST/STB Model Series	520 gpd	1 970 L/d	● ST-570P ● STB-570P	<input type="checkbox"/> <input type="checkbox"/>
(8)	Ecoflo® Biofiltre 7,56 US gal / ft ² * d - 308 L / m ² * d	ST/STB Model Series	460 gpd	1 755 L/d	● STB-570PR	<input type="checkbox"/>
(9)	Ecoflo® Biofiltre 5,42 US gal / ft ² * d - 221 L / m ² * d	ST/STB Model Series	330 gpd	1 260 L/d	● +	<input type="checkbox"/>
(10)	Ecoflo® Biofiltre 5,42 US gal / ft ² * d - 221 L / m ² * d	ST/STB Model Series	330 gpd	1 260 L/d	● DIUV ● FDI	<input type="checkbox"/> <input type="checkbox"/>


Patent(s) granted Brevet(s) obtenu(s)	- CA2499637; US7,097,768; ES2285173; EP1539325 (BE, FR)	Notice issued on Avis émis le	2017/09/28	Reference(s) Référence(s)	3685
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For current data regarding all patent application(s) and patent(s) for this product or any part thereof, consult the following website:
patentmarking.premiertech.com
 Serial number / Numéro de série

Pour des renseignements à jour concernant les demande(s) de brevet et brevet(s) pour ce produit ou une partie de celui-ci, consultez le site web suivant:

N0001A



After making sure the tipping bucket is fully operational and that the distribution plates are installed properly, install the insulating board inside the main access. Seal it shut by attaching the handle of the insulating board to the access of the **Ecoflo Biofilter** using the two plastic fasteners. Finally, close the lid of the **Ecoflo Biofilter**.



Note that the owner does not have to do anything in particular to start the system.

Do not forget the inspection permit, where applicable.

CHECK POINTS FOLLOWING INSTALLATION:

- NEVER cover or bury the lids of your septic system with mulch, soil or a permanent structure. Always keep the lids accessible.
- The lids of you septic system must be at least 50 mm (2") above the surface of the landscaped lot.
- NEVER install a riser on the access of a polyethylene Ecoflo Biofilter.**
- NEVER plant a tree within 6 m (20') of the Ecoflo Biofilter lid and within 2 m (6.5') of the absorption bed.
- NEVER open the lids or go inside the septic tank or biofilter.
- NEVER connect a drain pipe, roof gutter, sump pump or air conditioning drain to your septic system.
- NEVER operate a vehicle or place objects weighing over 225 kg (500 lbs) within 4 m (13'.1") of the lid. Pass on this information to all those who have access to your system (landscaper, snow blower, etc.).
- NEVER let anything accumulate on top of your septic system (for example: compacted snow). The overload could damage the system.
- NEVER empty the backwash of a spa or pool into your septic system.
- NEVER empty wastewater of a recreational vehicle (camping trailer, caravan, etc.) into your septic system.
- NEVER use automatic toilet cleaners.
- If there is a delay in finishing the landscape after the initial installation of the system, place reference posts and protective fences to identify the location of the Ecoflo Biofilter. This will prevent any circulation on the unit and help indicate the system's final level.
- If a pumping station is installed upstream of the Ecoflo Biofilter, an airflow duct must be connected from the pumping station to the Ecoflo Biofilter.
- Households must be equipped with an air vent that is in proper working condition and complies with the applicable standards. Premier Tech Aqua strongly recommends using a 100 mm (4") Ø pipe.
- Hand over the package containing the Owner's Manual and the Maintenance Agreement to the customer. This package is located inside the water intake protective cap.
- Remind the customer to fill out and sign the Maintenance Agreement. The customer must keep the white copy, give the yellow copy to the local regulatory body and send the pink copy to Premier Tech Aqua.

By respecting these guidelines, you are contributing to the proper operation of your wastewater treatment system. Failure to abide by these guidelines may, at Premier Tech Aqua's discretion, render the warranty invalid.

5. Handling

5.1. Handling

5.1.1. Standard handling method

- Lifting rings should always be used unless a significant amount of water has infiltrated the system. In this case, refer to *Section 5.1.2 Handling systems in which water has infiltrated*.



- Lifting rings should always be used with lifting straps or shackles of appropriate size and capacity.

5.1.2. Handling systems in which water has infiltrated

If water has infiltrated the system during storage, it must be pumped out (refer to Section 5: *Pumping Procedure*). Lifting chains must be properly secured on the protruding galvanized pipes.



- Make sure the chains or lifting straps used to move the system are strong enough to withstand the water's additional weight. Even if the excess water is emptied from the shell, water absorbed by the filtering media still remains, please handle with care.
Use equipment with adequate lifting capacity to handle the system. As specified above, the actual weight to be handled and the dry weight indicated on the first page of this document may differ significantly due to the amount of water in the system.

For both handling methods

- Always support the system with four (4) lifting points. Make sure the load is evenly distributed on the four (4) lifting points (lifting rings, galvanized pipes, etc).
- When handling the system, always keep it levelled to avoid movement of the components inside the shell.
- Carefully move the system making sure everyone keeps a safe distance from the system as well as the equipment on site.
- Handle the system gently and uniformly, sudden movements should be avoided.
- The handler is responsible for any damage caused to the system occurring while handling.
- Never handle more than one system at a time.

If you have any questions or comments, do not hesitate to contact Premier Tech Aqua at 1 800 632-6356.



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