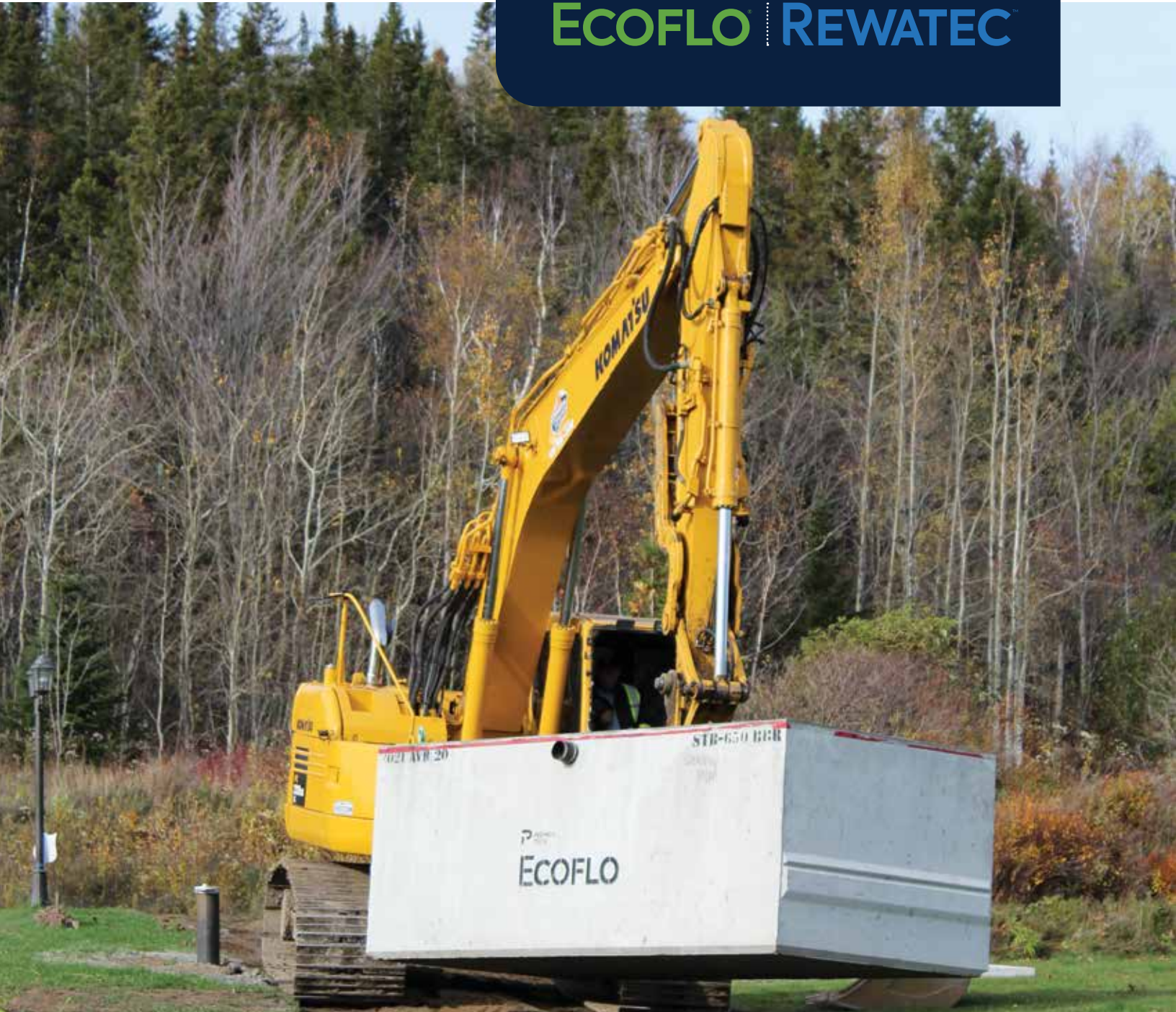




Guide for professionals

ECOFLO | **REWATEC**



Certified system accepted by all municipalities



Made in Québec

People and Technologies making a difference

Premier Tech brings to life products that help feed, protect, and improve our world.

- **World Headquarters in Québec**
- **family business**
- **founded in 1923**
- **5,000 team members in 28 countries**
- **47 factories in 16 countries**



Through its Water and Environment business group, Premier Tech designs and manufactures sustainable local solutions for:

Wastewater treatment

Residential



Commercial



Rainwater harvesting



Together, we make green technologies accessible and continuously innovate to create solutions that last.

Ecoflo is how we make a sustainable difference. Together.

Choose the Ecoflo biofilter to protect your client's property with the septic system with the lowest carbon footprint.



**THE #1 CHOICE IN QUÉBEC
SINCE 1995!**

VISIT OUR
WEBSITE



> QUICK INSTALLATION

- ready-to-use models
- easy-to-follow instructions
- can be installed in only one day

> MODELS FOR ANY SITE

- options for all soil conditions
- pumped or gravity discharge
- compact models

> PRODUCT AVAILABILITY

- 40 depots across Québec
- quality-controlled inventory
- reliable order tracking

> 10-YEAR TOTAL WARRANTY

- all treatment-related parts and labour
- proper functioning of the filtering medium and its treatment performance
- no clogging or excess sludge

> OUTPERFORMS STANDARDS

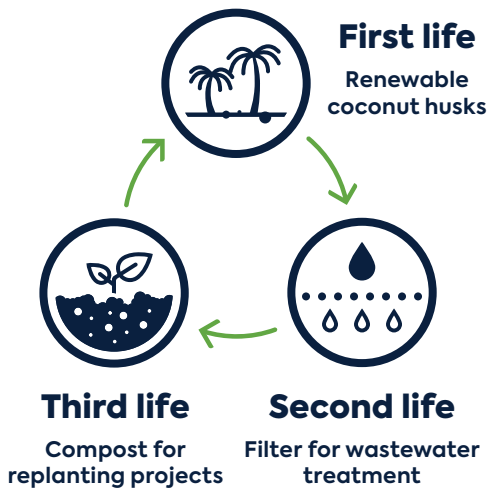
Parameter	Requirement*	Ecoflo biofilter effluent	
		100% coco filter†	Coco and peat filter
CBOD₅	≤ 15 mg/L	2 mg/L	2 mg/L
TSS	≤ 15 mg/L	2 mg/L	2 mg/L
Fecal coliforms	≤ 50,000 CFU/100 mL	350 CFU/100 mL	1,250 CFU/100 mL

* 30-day average.

† Per system certification, installation includes a Premier Tech compact sand filter.

Ecoflo advantages for your clients

NATURAL, RENEWABLE, COMPOSTABLE FILTER



INSTALLED FOR LIFE

- easy installation
- never needs to be moved or replaced
- never damages your client's landscaping

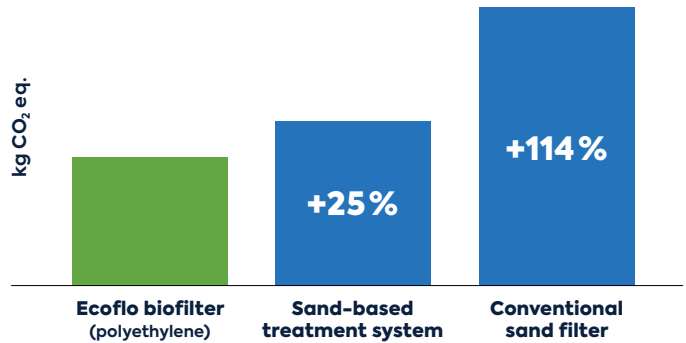
PEACE-OF-MIND PERFORMANCE

- energy-free treatment
- 24/7 autonomous operation
- never clogs soil or contaminates property
- worry-free warranty

LOWEST CARBON FOOTPRINT

From production and shipping to installation, maintenance, and usage, the Ecoflo biofilter has the lowest carbon footprint of any product on the market.

Total after 50-year life cycle



Notes

- Based on analysis of septic installations in Québec.
- Systems installed in very low permeability soil and rated for three bedrooms.
- Distances between installations and required materials assumed to be 60 km for filtration sand and stone, 33 km for backfill.
- Ecoflo biofilter installations include a compact sand filter.

BEST LONG-TERM INVESTMENT

- maintains the selling value of your client's property
- no energy bills for wastewater treatment
- no high-priced repairs or hidden costs
- no full-system replacements



A product supported by the manufacturer

START-UP VISIT

We visit new owners on site to teach them how the Ecoflo biofilter works.

PREVENTIVE MAINTENANCE

- network of annually trained local professionals
- optimizes system operations and maximizes the lifespan of the filter
- mandatory in Québec

FILTER REPLACEMENT

- guarantees the system's treatment performance for life
- new filtering medium comes with a 10-year warranty
- takes just a few hours
- never damages your client's landscaping



2022 AVERAGE COSTS

Service	Cost
Ecoflo biofilter maintenance	\$122*
Ecoflo biofilter with passive disinfection filter (FDI) maintenance	\$151*
Phosphorus removal (DpEC) with Premier Tech sand filter maintenance	\$289*
Ecoflo biofilter with UV disinfection (DiUV) maintenance	\$534*
Ecoflo biofilter filter replacement	\$2,024†

* Includes \$10 rebate offered with automatic contract renewals completed before January 1.

† Ecoflo biofilter model 6.5 used as reference. Prices may vary.



Premier Tech's 360° support

Since 1995, professionals have been the heart of our business.

IMMEDIATE ASSISTANCE

Experts available Monday to Friday to answer your field questions.



IN-PERSON FIELD SUPPORT

Experts go on site when challenges cannot be resolved with a video call.



ACCESSIBLE TRAINING

Online training programs make your installations as simple as possible.



FULL CUSTOMER SUPPORT

Teams directly assist customers, so you can concentrate on your work.





PARTS AVAILABLE ONLINE

With our online store, parts are available as soon as possible for your clients.



AFTER-SALES SERVICE FROM THE MANUFACTURER

Largest network of local partners to maintain systems and honour warranties.



PRO SPACE

Quickly find all the documents you need in one place.

10
YEAR
WARRANTY

MOST COMPLETE WARRANTY IN THE INDUSTRY

Since 1995, we have proudly developed sustainable products with warranties that are clear and complete.

ECOFLO[®]

Polyethylene

100% coco filter

Solution for:

- 1 to 6 bedrooms
- simple and quick installations
- sites with limited space

Advantages:

- primary treatment tank and biofilter installed with one excavation*
- compact and lightweight*
- ready to use
- install in up to 600 mm (2') of groundwater (pumped models 2.8 to 4.1 only)
- one additional riser of 150 mm (6") allowed (models 2.8 to 4.1 only)



* Pack model

ECOFLO[®]

Concrete

100% coco filter

Solution for:

- 1 to 6 bedrooms
- any soil type
- all water tables

Advantages:

- high-strength tank
- ready to use (except models 6.5 and 8.4)
- install in groundwater up to the inlet pipe (pumped models only)
- one riser of 200 mm (8") allowed



ECOFLO[®]

Coco and peat options

POLYETHYLENE

Solution for:

- 1 to 4 bedrooms
- sites with limited space

Refer to page 24
for technical information.

Advantages:

- compact and lightweight
- ready to use
- possibility to discharge into a watercourse



CONCRETE

Solution for:

- 1 to 5 bedrooms
- any soil type
- all water tables

Refer to page 26
for technical information.

Advantages:

- high-strength tank
- possibility to discharge into a watercourse
- gravity or pumped discharge
- install in groundwater up to the inlet pipe (pumped models only)
- one riser of 200 mm (8") allowed



FIBREGLASS

Solution for:

- 1 to 4 bedrooms
- sites with limited space
- gravity installations

Refer to page 27
for technical information.

Advantages:

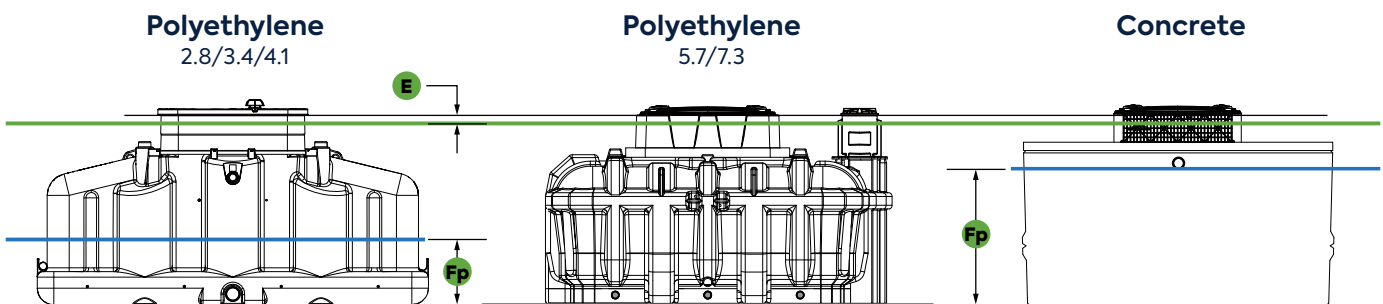
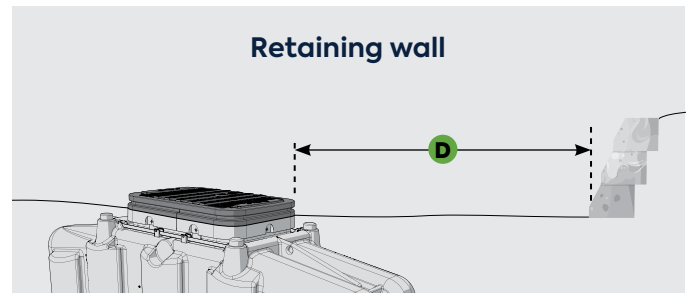
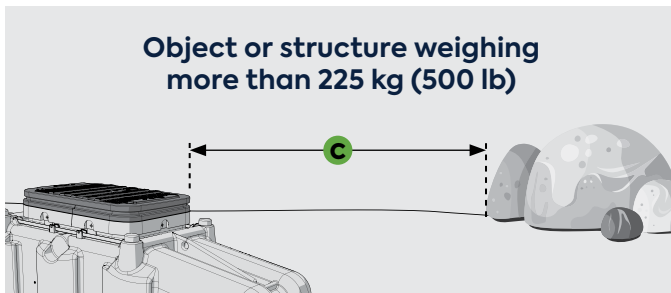
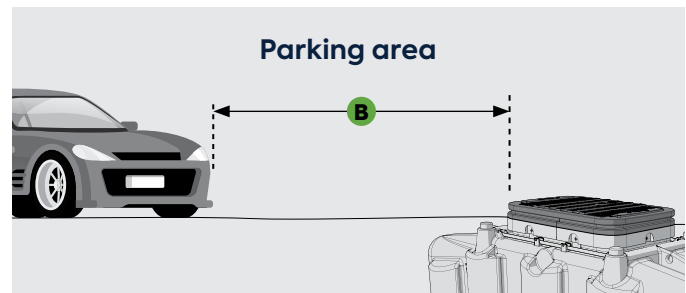
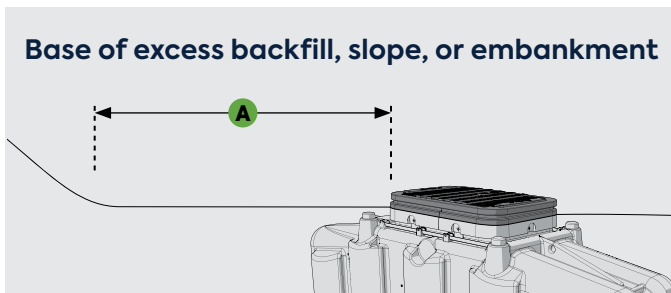
- dispersal bed directly under the tank
- compact and lightweight
- never needs electricity



Recommended distances

Installations must respect the distances in sections 7.1 and 7.2 of Q-2, r. 22. We also recommend the distances indicated in the table below. Failure to abide by these guidelines may void the warranty of the installation.

Reference points		Polyethylene 2.8/3.4/4.1	Polyethylene 5.7/7.3	Concrete	Fibreglass
Base of excess backfill, slopes, or embankments vs. biofilter lid	A	4 m (13')		2 m (6' 6")	5 m (16')
Parking area vs. biofilter lid	B	4 m (13')		2 m (6' 6")	5 m (16')
Object or structure weighing more than 225 kg (500 lb) vs. biofilter lid	C	4 m (13')		2 m (6' 6")	5 m (16')
Retaining wall vs. biofilter lid	D	4 m (13')		2 m (6' 6")	5 m (16')
Finished landscaping vs. base of biofilter lid	E	50 mm (2")			
Tree vs. biofilter lid		—			3 m (10')
Seasonal high groundwater table (SHGT) vs. base of gravity-discharge unit		Do not install in groundwater			
Seasonal high groundwater table (SHGT) vs. base of pumped-discharge unit	Fp	600 mm (2')	Do not install in groundwater	Up to bottom of inlet pipe	Do not install in groundwater



Legend — Finished landscaping — SHGT



Filtering sand

Passive disinfection filter (FDi)

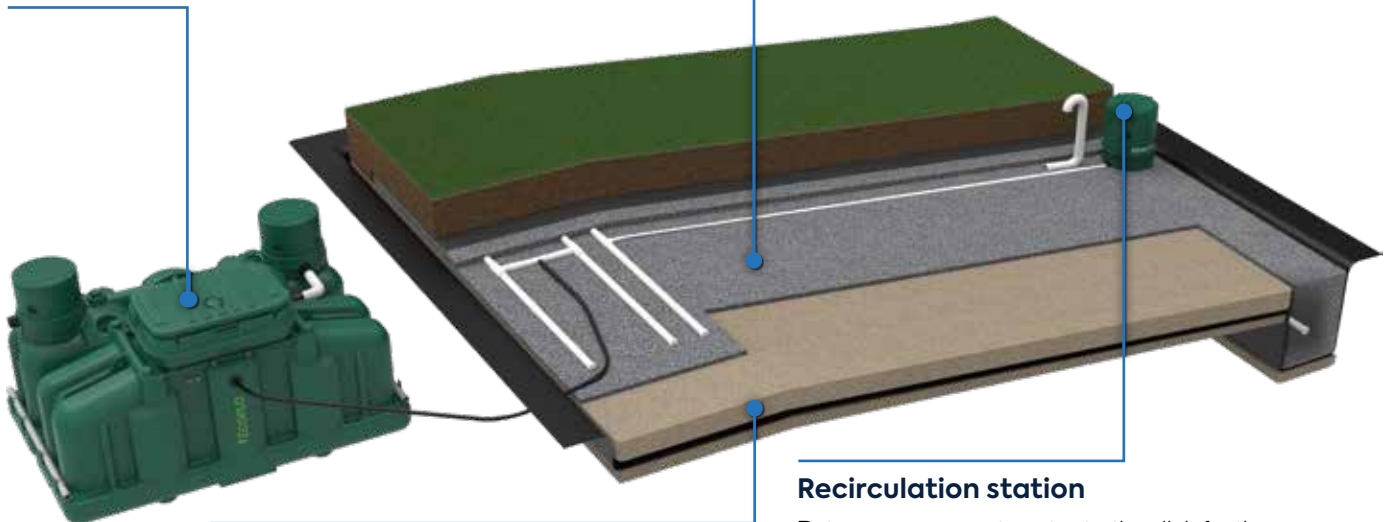
Installed downstream from the Ecoflo biofilter, our disinfection filter provides final wastewater treatment for properties with impermeable soil.

Ecoflo biofilter

Removes wastewater pollutants, then sends effluent to the disinfection filter.

Passive disinfection filter

Performs final wastewater treatment.



Watertight membrane

Keeps wastewater in the filter until disinfection is complete.

Recirculation station

Returns some wastewater to the disinfection filter and discharges the remaining portion into a ditch. Recirculation keeps the filter active, even during periods of non-use.

LOW OPERATING COSTS

The passive disinfection filter uses a recirculation pump that consumes less than \$3 worth of energy per year.

PASSIVE AND DEPENDABLE TREATMENT

The system works autonomously 24/7 to give your clients peace of mind.

TREATMENT PERFORMANCE (BNQ)

Parameter	Requirement*	Ecoflo biofilter effluent with passive disinfection filter	
		100% coco filter	Coco and peat filter
CBOD ₅	≤ 15 mg/L	2 mg/L	2 mg/L
TSS	≤ 15 mg/L	1 mg/L	2 mg/L
Fecal coliforms	≤ 200 CFU/100 mL	3 CFU/100 mL	9 CFU/100 mL

* 30-day average.

Refer to pages 30 and 31 for technical information.

Integrated UV disinfection (DiUV)

Our integrated DiUV option reliably kills wastewater pathogens, so you can safely send wastewater into a watercourse or ditch.

Wi-Fi system

Sends us instant alerts, so we can help your client protect their investment and the environment. If there is a problem, a service team will follow up on it.

Improved design

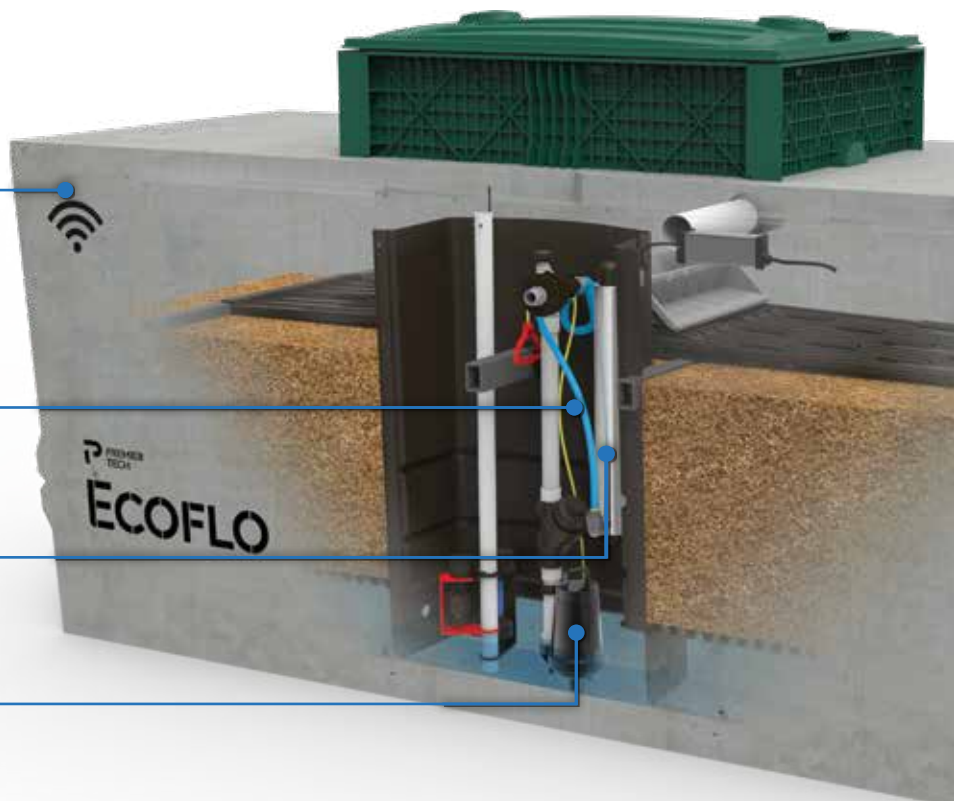
Strong, reliable parts ensure easy operation and maintenance.

New UV lamp

Maximizes flow while lowering energy consumption.

Integrated pump

Discharges treated wastewater in any site conditions and keeps ditch water out of the treatment unit.



READY TO INSTALL

We make installation fast and simple by pre-assembling and pre-wiring our UV disinfection units.

SOLUTIONS FOR ANY SITE

UV disinfection can be integrated in many polyethylene and concrete Ecoflo biofilter models for up to six bedrooms. It is also available in a separate tank.

TREATMENT PERFORMANCE (BNQ)

Parameter	Requirement*	Ecoflo biofilter effluent with UV disinfection	
		100% coco filter	Coco and peat filter
CBOD ₅	≤ 15 mg/L	4 mg/L	2 mg/L
TSS	≤ 15 mg/L	4 mg/L	2 mg/L
Fecal coliforms	≤ 20 CFU/100 mL†	2 CFU/100 mL	2 CFU/100 mL

* 30-day average.

† Before photoreactivation.

REWATEC™

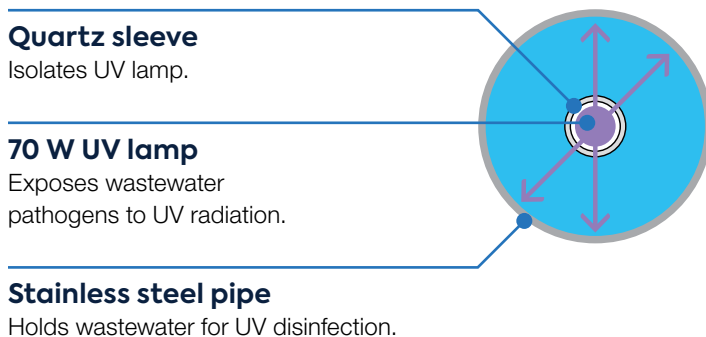
UV disinfection (DiUV)



Parts and labour

CLASSIC UV DISINFECTION

INTEGRATED OR SEPARATE TANK

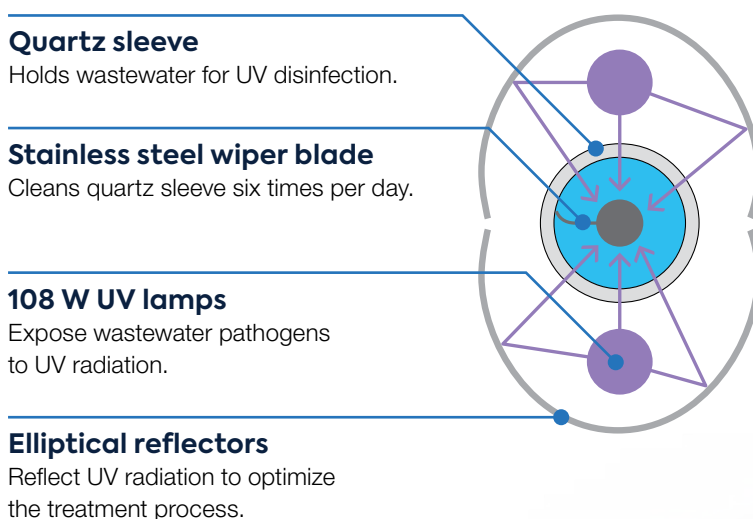


RECOMMENDED INFLUENT QUALITY

Parameter	Level
Iron	< 0.3 mg/L (0.3 ppm)
Manganese	< 0.05 mg/L (0.05 ppm)
Water hardness	< 120 mg/L (7 gpg)

SELF-CLEANING UV DISINFECTION

SEPARATE TANK ONLY



Our self-cleaning UV disinfection unit will not be available after 2022.

Phosphorus removal (DpEC)

Without proper treatment, phosphorus in wastewater can cause harmful algae growth in lakes and rivers. Protect these sensitive areas with our phosphorus removal option.

Electrocoagulation unit

Reaction zone

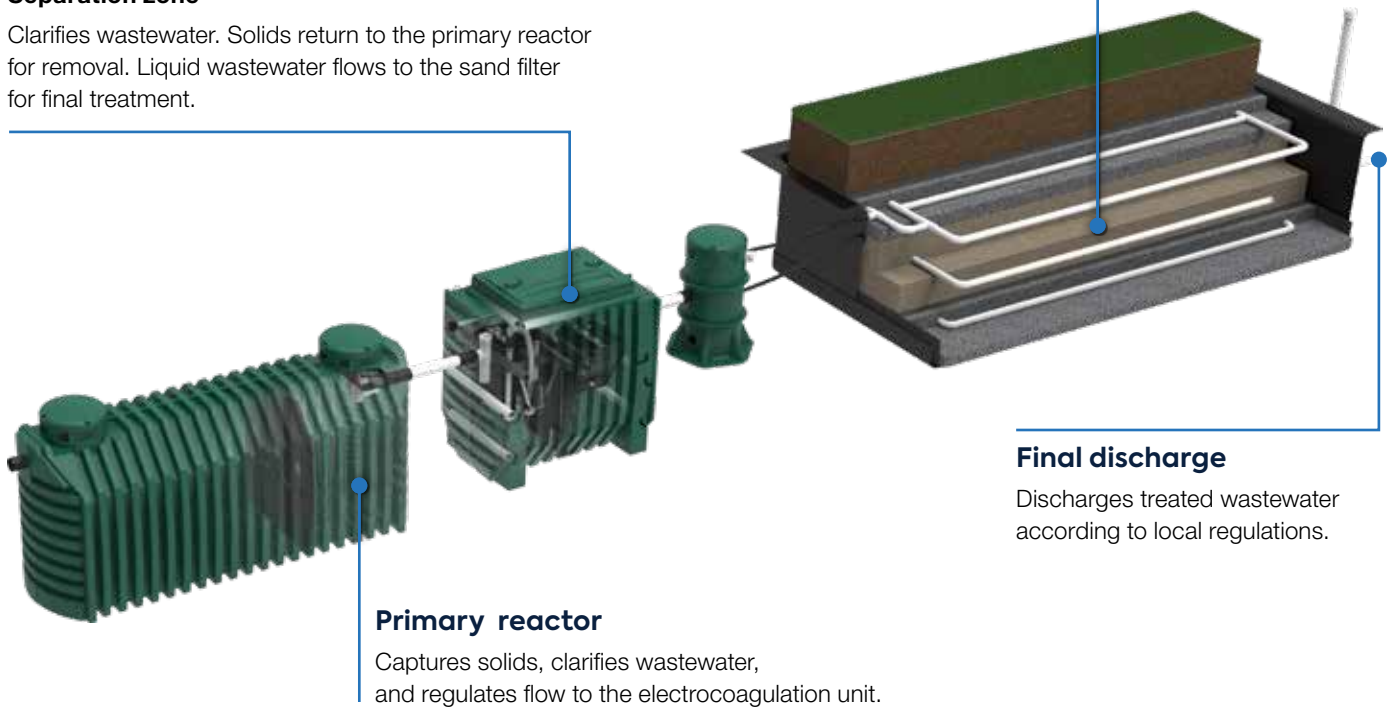
Has two pairs of self-cleaning aluminum electrodes. Aluminum particles react with phosphorus in wastewater, transforming soluble phosphorus into solid compounds.

Separation zone

Clarifies wastewater. Solids return to the primary reactor for removal. Liquid wastewater flows to the sand filter for final treatment.

Watertight sand filter

Performs final wastewater treatment.



Primary reactor

Captures solids, clarifies wastewater, and regulates flow to the electrocoagulation unit.

Final discharge

Discharges treated wastewater according to local regulations.

TREATMENT PERFORMANCE (BNQ)

Parameter	Requirement*	Phosphorus removal unit with sand filter
CBOD ₅	< 15 mg/L	1 mg/L
TSS	< 15 mg/L	2 mg/L
Total phosphorus	< 1 mg/L	0.04 mg/L
Fecal coliforms	≤ 200 CFU/100 mL	47 CFU/100 mL

* 30-day average.

Refer to pages 32 and 33 for technical information.

REWATEC™

Components and accessories

SEPTIC TANKS

- up to 6,600 L total nominal capacity
- high-strength polyethylene

Refer to page 34
for technical information.



PUMPING STATIONS

- up to 255 L effective dosing volume
- high-strength polyethylene

Refer to page 35
for technical information.



PUMPS

- up to 0.5 hp
- reliable and durable

Refer to page 35
for technical information.



FLOW DIVIDERS

- pressurized or gravity flow
- two to 10 outlets




RISERS

- from 150 to 355 mm
(6 to 14")



Advanced secondary and tertiary treatment combinations

			 TERTIARY TREATMENTS			
			Passive disinfection filter (FDi)	Integrated UV disinfection (DIUV)	UV disinfection (DIUV) in separate tank	Phosphorus removal (DpEC)
Bedrooms	Hydraulic capacity	Model				
100% COCO FILTER						
2	1,080 L/d	EC-2.8	✓	✓	✓	✗
3	1,260 L/d	EC-3.4	✓	✓	✓	✗
4	1,440 L/d	EC-3.8	✓	✓	✓	✗
		EC-4.1	✓	✓	✓	✗
5	1,800 L/d	EC-5.0	✓	✗	✓	✗
5 and 6	2,160 L/d	EC-5.7	✓	✗	✓	✗
6+	2,810 L/d	EC-7.3	✓	✗	✓	✗
	2,500 L/d	EC-6.5	✓	✗	✓	✗
	3,240 L/d	EC-8.4	✓	✗	✓	✗
COCO AND PEAT FILTER						
2	1,080 L/d	STB-500	✓	✗	✓	✓
		ST-500	✓	✗	✗	✗
3	1,260 L/d	STB-570	✓	✗	✓	✓
4	1,440 L/d	STB-650	✓	✗	✓	✓
		ST-650	✓	✗	✗	✗
4+	1,620 L/d	STB-730	✓	✗	✓	✓
		ST-730	✓	✗	✓	✓
5	1,860 L/d	STB-840	✓	✗	✓	✓

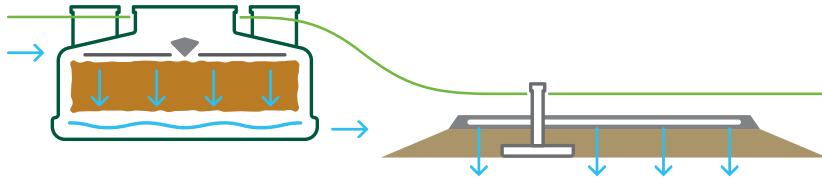
NEED HELP?

For help choosing the right Ecoflo biofilter model, tertiary treatments, and accessories, call our expert in your area. You will get free, professional advice to transform any challenge into a custom solution.

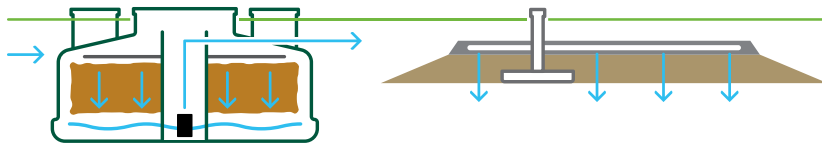
+1 800 632-6356
support.ptwe.na@premiertech.com

A range of products to meet your needs

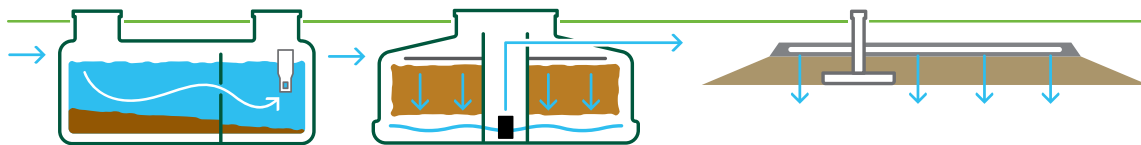
Polyethylene Ecoflo biofilter Pack model with a 100% coco filter and gravity discharge to a compact sand filter.



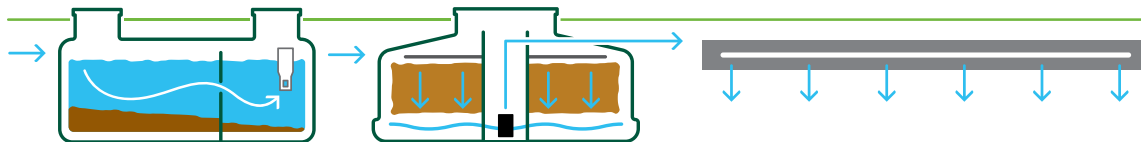
Polyethylene Ecoflo biofilter Pack model with a 100% coco filter and pumped discharge to a compact sand filter.



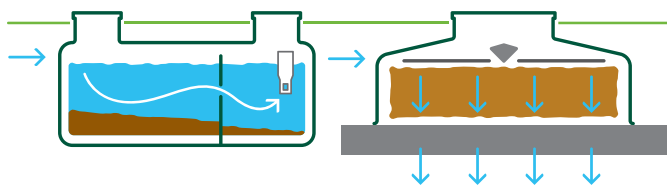
Polyethylene or concrete Ecoflo biofilter with a 100% coco filter and gravity or pumped discharge to a compact sand filter.



Polyethylene or concrete Ecoflo biofilter with a coco and peat filter and gravity or pumped discharge to a polishing field.

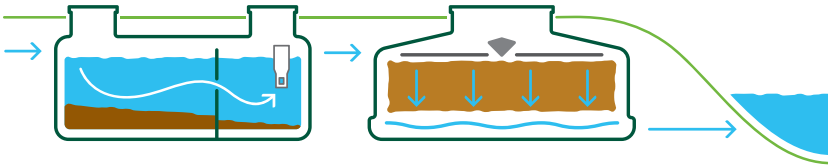


Fibreglass Ecoflo biofilter with a coco and peat filter and a polishing field under the tank.

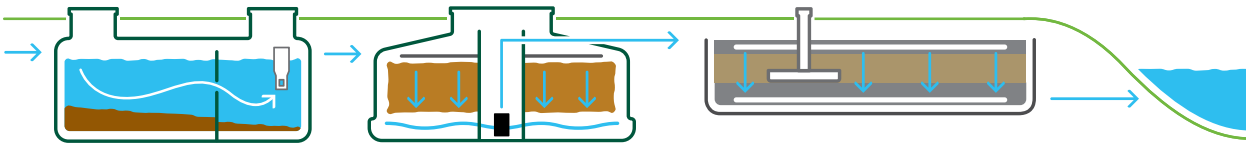


MAIN CONFIGURATIONS OFFERED

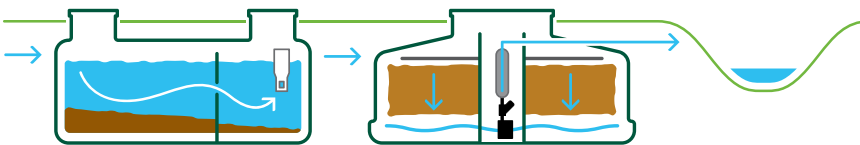
Ecoflo biofilter with a coco and peat filter and gravity or pumped discharge to a watercourse.



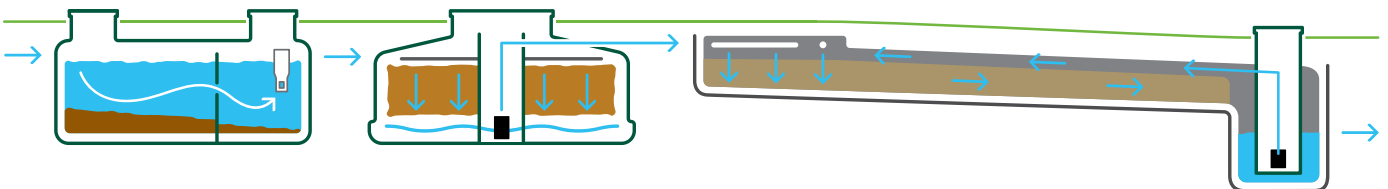
Polyethylene or concrete Ecoflo biofilter with a 100% coco filter and gravity or pumped discharge to a sand filter that sends effluent into a watercourse.



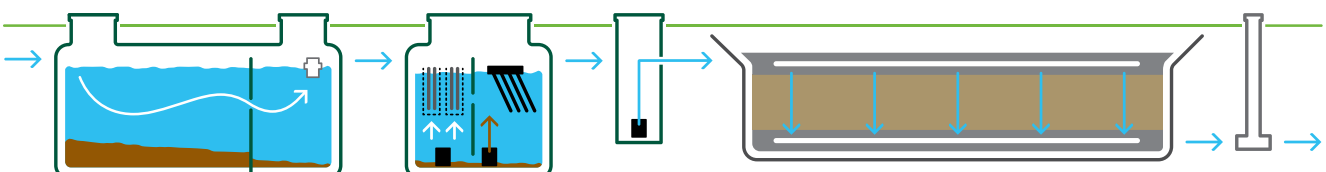
Polyethylene or concrete Ecoflo biofilter with a 100% coco filter and an integrated UV disinfection unit that pumps effluent into a ditch.



Ecoflo biofilter with a 100% coco or a coco and peat filter that sends effluent to a passive disinfection filter.



Phosphorus removal system with gravity or pumped discharge to a watertight sand filter.



ECOFLO[®]

Polyethylene • Pack

100% coco filter



	EC-2.8-P-G/P-PACK	EC-3.4-P-G/P-PACK	EC-4.1-P-G/P-PACK
Number of bedrooms	2	3	4
Hydraulic capacity	1,080 L/d	1,260 L/d	1,440 L/d
Primary tank volume	3,000 L	3,600 L	4,750 L
Length A	3,120 mm (10' 3")	3,550 mm (11' 8")	4,050 mm (13' 4")
Width B	2,480 mm (8' 2")		
Height C <small>Includes 300 mm (12") of risers</small>	1,770 mm (5' 9-3/4")		
Inlet height of primary tank from bottom D	1,285 mm (4' 2-1/2")		
Gravity water outlet height Eg	44 mm (1-3/4")		
Pumped water outlet height Ep	1,140 mm (3' 9")		
Riser height allowed	150 mm (6")		
Weight <small>Includes internal components and coco filter</small>	760 kg (1,675 lb)	850 kg (1,870 lb)	950 kg (2,090 lb)
Built-in effective volume available for dosing <small>Pumped discharge models only</small>	95 L	115 L	135 L
Maximum dosing volume	600 L	680 L	757 L
Retention volume <small>Between bottom of filtering medium and base of tank</small>	850 L	980 L	1,090 L
Maximum pumping distances	Refer to the table below		

Water inlet

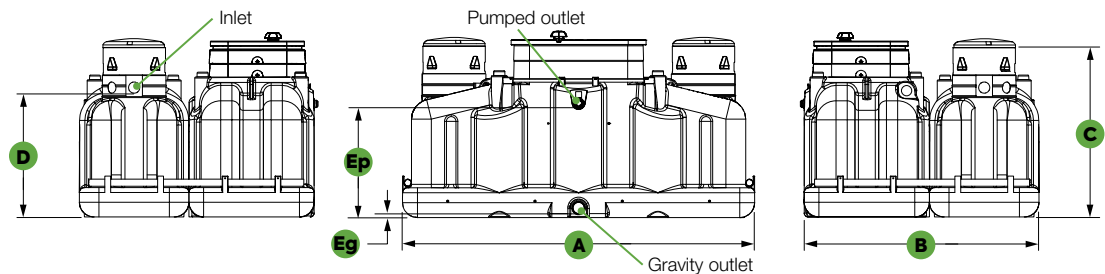
Ø 100 mm (4") nominal

Gravity water outlet

Ø 100 mm (4") nominal

Pumped water outlet

Ø 38 mm (1-1/2") or
Ø 25 mm (1") nominal



MAXIMUM PUMPING DISTANCES

	Water head				
	7.5 m (25')	6 m (20')	4.5 m (15')	3 m (10')	1.5 m (5')
Maximum length Ø 25 mm (1") pipe	7.5 m (25')	18 m (60')	21 m (70')	24 m (80')	27 m (90')
Maximum length Ø 38 mm (1-1/2") pipe*	30 m (100')		60 m (200')		

* Excluding concrete models 2.8 and 6.5.

ECOFLO®

Polyethylene

100% coco filter



	EC-2.8-P-G/P	EC-3.4-P-G/P	EC-4.1-P-G/P
Number of bedrooms	2	3	4
Hydraulic capacity	1,080 L/d	1,260 L/d	1,440 L/d
Length A	3,120 mm (10' 3")	3,550 mm (11' 8")	4,050 mm (13' 4")
Width B	1,280 mm (4' 2")		
Height C <small>Includes 300 mm (12") of risers</small>	1,770 mm (5' 9-1/2")		
Inlet height from bottom D	1,230 mm (4' 1/2")		
Gravity water outlet height Eg	44 mm (1-3/4")		
Pumped water outlet height Ep	1,140 mm (3' 9")		
Riser height allowed	150 mm (6")		
Weight <small>Includes internal components and coco filter</small>	560 kg (1,235 lb)	610 kg (1,345 lb)	660 kg (1,455 lb)
Built-in effective volume available for dosing <small>Pumped discharge models only</small>	95 L	115 L	135 L
Maximum dosing volume	600 L	680 L	757 L
Retention volume <small>Between bottom of filtering medium and base of tank</small>	850 L	980 L	1,090 L
Maximum pumping distances	Refer to the table on page 22		

Water inlet

Ø 100 mm (4") nominal

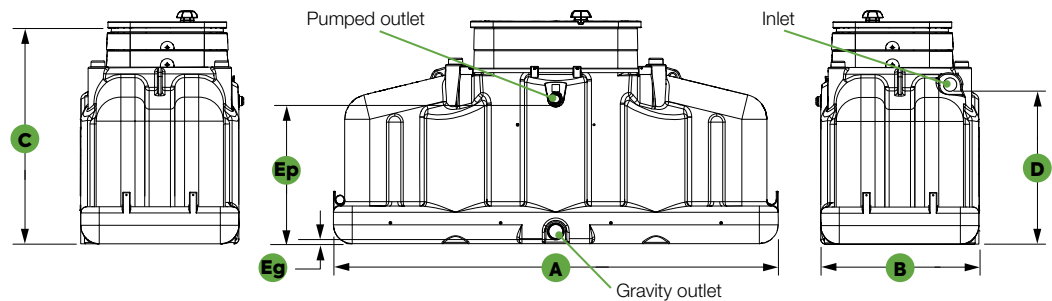
Gravity water outlet

Ø 100 mm (4") nominal

Pumped water outlet

Ø 38 mm (1-1/2") or

Ø 25 mm (1") nominal



ECOFLO®

Polyethylene

100% coco or coco and peat filter



	100% coco filter	
	EC-5.7-P-G/P	EC-7.3-P-G/P
Number of bedrooms	5 and 6	6+
Hydraulic capacity	2,160 L/d	2,810 L/d

	Coco and peat filter	
	STB-570P/PR	STB-730P/PR
Number of bedrooms	3	4+
Hydraulic capacity	1,260 L/d	1,620 L/d

Length	A	3,380 mm (11' 1")	4,130 mm (13' 7")
Width	B	1,840 mm (6' 1/2")	2,050 mm (6' 9")
Height	C	1,850 mm (6' 1")	
Inlet height from bottom	D	1,260 mm (4' 2")	
Gravity water outlet height	Eg	76 mm (3")	
Pumped water outlet height	Ep	1,240 mm (4' 1")	
Riser height allowed		No additional risers allowed	
Weight Includes internal components and coco filter		1,200 kg (2,640 lb)	1,415 kg (3,120 lb)
Dosing volume Pumped discharge models only		115 L	150 L
Retention volume Between bottom of filtering medium and base of tank		500 L	610 L
Maximum pumping distances		Refer to the table on page 22	

Water inlet

Ø 100 mm (4") nominal

Gravity water outlet

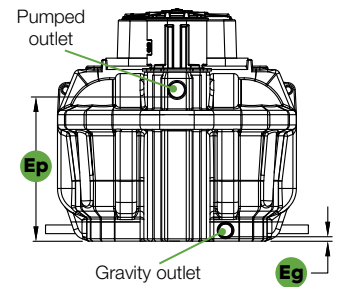
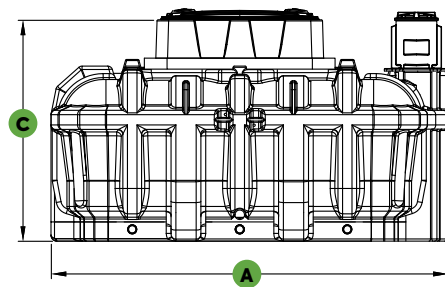
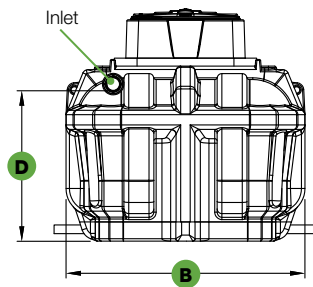
Ø 100 mm (4") nominal

Pumped water outlet

Coco: 25 mm (1") or

38 mm (1-1/2")

Coco and peat: 25 mm (1")



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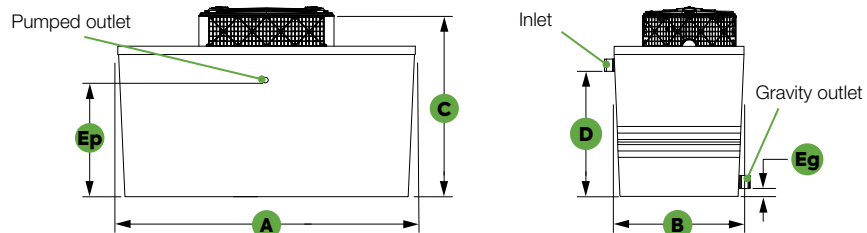
Concrete

100% coco filter



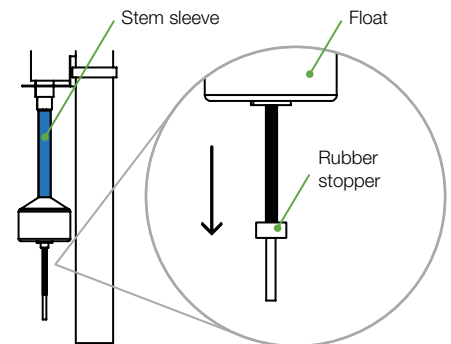
	EC-2.8-C	EC-3.4-C	EC-3.8-C
Number of bedrooms	2	3	4
Hydraulic capacity	1,080 L/d	1,260 L/d	1,440 L/d
Length A	3,050 mm (10')	3,600 mm (11' 10")	3,975 mm (13')
Width B	1,285 mm (4' 3")		
Height C	1,802 mm (5' 11")		
Inlet height from bottom D	1,210 mm (4')		
Gravity water outlet height Eg	121 mm (4-3/4")		
Pumped water outlet height Ep	1,168 mm (3' 10")		
Riser height allowed	200 mm (8")		
Weight Includes tank, upper slab, internal components, and filtering medium	3,900 kg (8,690 lb)	4,545 kg (10,000 lb)	5,000 kg (11,000 lb)
Dosing volume Pumped discharge models only	105 L	130 L	145 L
Retention volume Between bottom of filtering medium and base of tank	450 L	550 L	610 L
Maximum pumping distances	Refer to the table on page 22		

- Water inlet**
Ø 100 mm (4") nominal
- Gravity water outlet**
Ø 100 mm (4") nominal
- Pumped water outlet**
Ø 38 mm (1-1/2") nominal



ON/OFF FLOAT ADJUSTMENTS

Ecoflo biofilter model	Distance	Downward adjustment to rubber stopper
EC-2.8 2 bedrooms	0 to 18 m (0 to 60')	None (factory setting)
	18 to 30 m (60 to 100')	7 mm (1/4")
	30 m (100') or more	Distance not covered
EC-3.4/3.8/4.1 3 to 4 bedrooms	0 to 21 m (0 to 70')	None (factory setting)
	21 to 40 m (70 to 130')	7 mm (1/4")
	40 to 52 m (130 to 170')	13 mm (1/2")
	52 to 61 m (170 to 200')	13 mm (1/2") and cut 6 mm (1/4") from the tube



ECOFLO®

Concrete

100% coco or coco and peat filter



	100% coco filter		
	EC-5.0-C-P	EC-6.5-C-P	EC-8.4-C-P
Number of bedrooms	5	6+	6+
Hydraulic capacity	1,800 L/d	2,500 L/d	3,240 L/d

	Coco and peat filter		
	STB-500B/BR	STB-650B/BR	STB-840B/BR
Number of bedrooms	2	4	5
Hydraulic capacity	1,260 L/d	1,440 L/d	1,865 L/d

Length	A	2,920 mm (9' 7")	3,800 mm (12' 6")	4,910 mm (16' 2")
Width	B	1,960 mm (6' 5")	1,960 mm (6' 5")	2,100 mm (6' 11")
Height	C	1,870 mm (6' 2")	1,820 mm (6')	2,025 mm (6' 8")
Inlet height from bottom	D	1,300 mm (4' 3")	1,250 mm (4' 1")	1,430 mm (4' 8")
Gravity water outlet height	Eg	200 mm (8")	150 mm (6")	150 mm (6")
Pumped water outlet height	Ep	1,390 mm (4' 7")	1,340 mm (4' 5")	1,495 mm (4' 10")
Riser height allowed		200 mm (8")		
Tank weight		3,630 kg (8,000 lb)	4,990 kg (11,000 lb)	6,850 kg (15,100 lb)
Tank and upper slab weight		5,220 kg (11,500 lb)	6,805 kg (15,000 lb)	9,665 kg (21,265 lb)
Tank and filtering medium weight		3,990 kg (8,790 lb)	5,450 kg (12,020 lb)	7,300 kg (16,100 lb)
Total weight Includes tank, upper slab, internal components, and filtering medium		5,575 kg (12,290 lb)	7,270 kg (16,020 lb)	10,125 kg (22,320 lb)
Dosing volume Pumped discharge models only		160 L	200 L	500 L
Retention volume Between bottom of filtering medium and base of tank		430 L	545 L	2,000 L
Maximum pumping distances		Refer to the table on page 22		

Water inlet

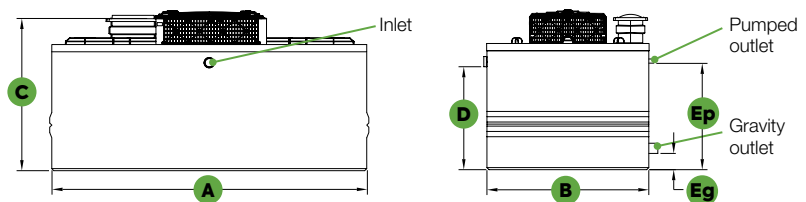
Ø 100 mm (4") nominal

Gravity water outlet

Ø 100 mm (4") nominal

Pumped water outlet

Ø 25 mm (1") nominal



ECOFLO[®]

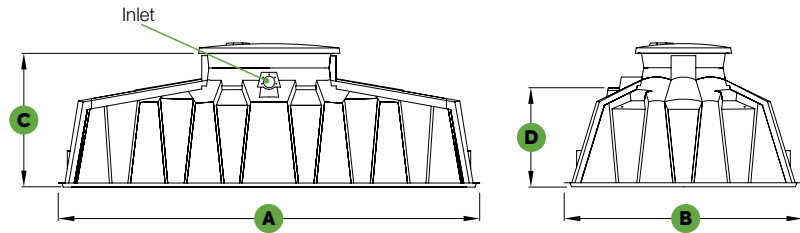
Fibreglass

Coco and peat filter



	ST-500	ST-650
Number of bedrooms	2	4
Hydraulic capacity	1,080 L/d	1,440 L/d
Length A	3,345 mm (11')	4,175 mm (13' 8")
Width B	2,361 mm (7' 9")	
Height C	1,320 mm (4' 4")	
Inlet height from bottom D	970 mm (3' 2")	
Riser height allowed	No additional risers allowed	
Weight	115 kg (250 lb)	135 kg (300 lb)

Water inlet
 Ø 100 mm (4") nominal



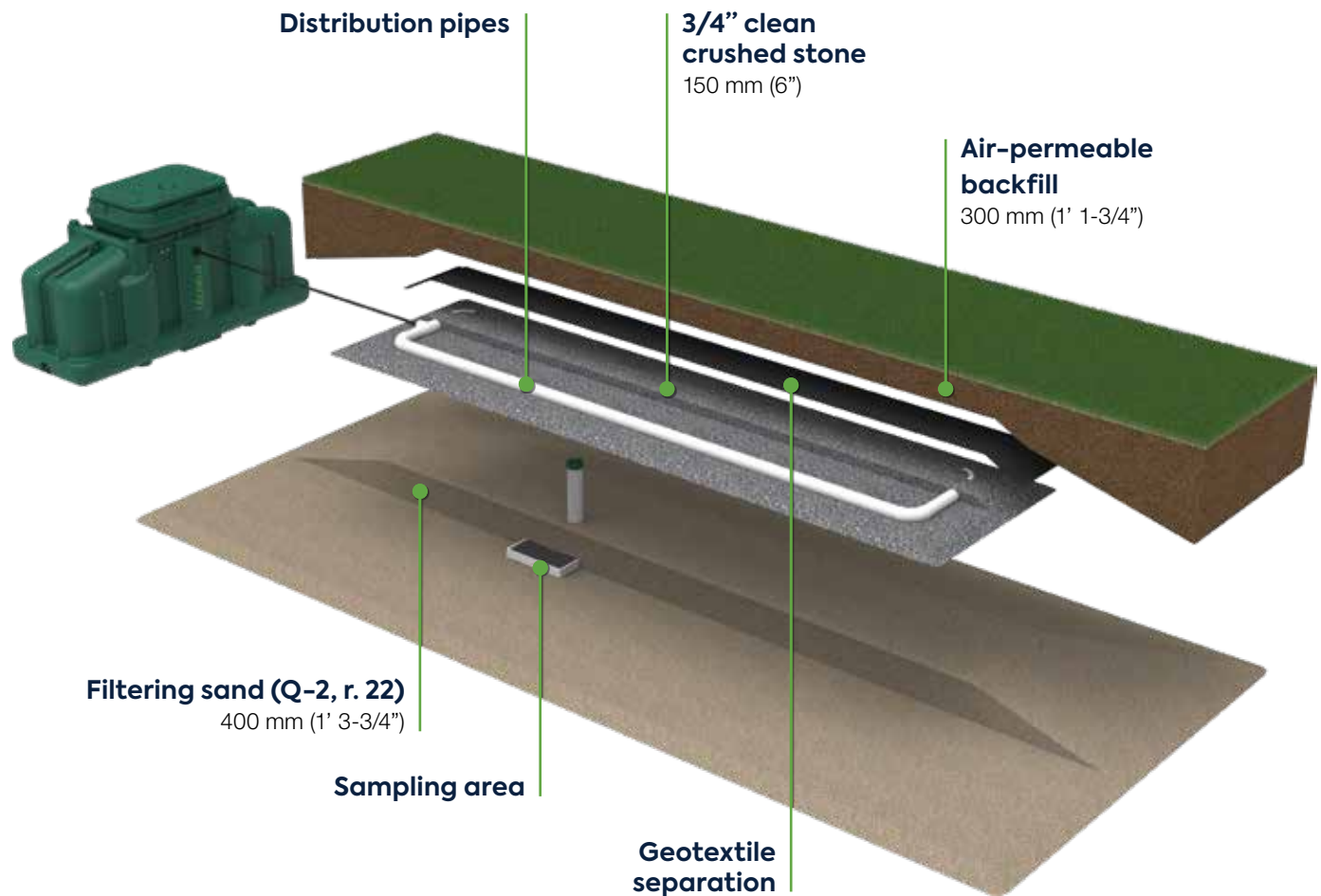
ECOFLO[®]

Compact sand filter

For models with a 100% coco filter



Filtering sand



MINIMUM SURFACE AREA

With a maximum hydraulic load of 150 L/m² per day

Bedrooms	Daily flow	Minimum surface
2	1,080 L/d	7.2 m ²
3	1,260 L/d	8.4 m ²
4	1,440 L/d	9.6 m ²
5	1,800 L/d	12 m ²
6	2,160 L/d	14.4 m ²
6+	3,240 L/d	21.6 m ²

SAND SPECIFICATIONS

Q-2, r. 22

Parameter	Specification
Effective diameter (D ₁₀)	Between 0.25 and 1 mm
Uniformity coefficient (C _U)	≤ 4.5
Particles < 80 μm	< 3%
Particles > 2.5 μm	< 20%

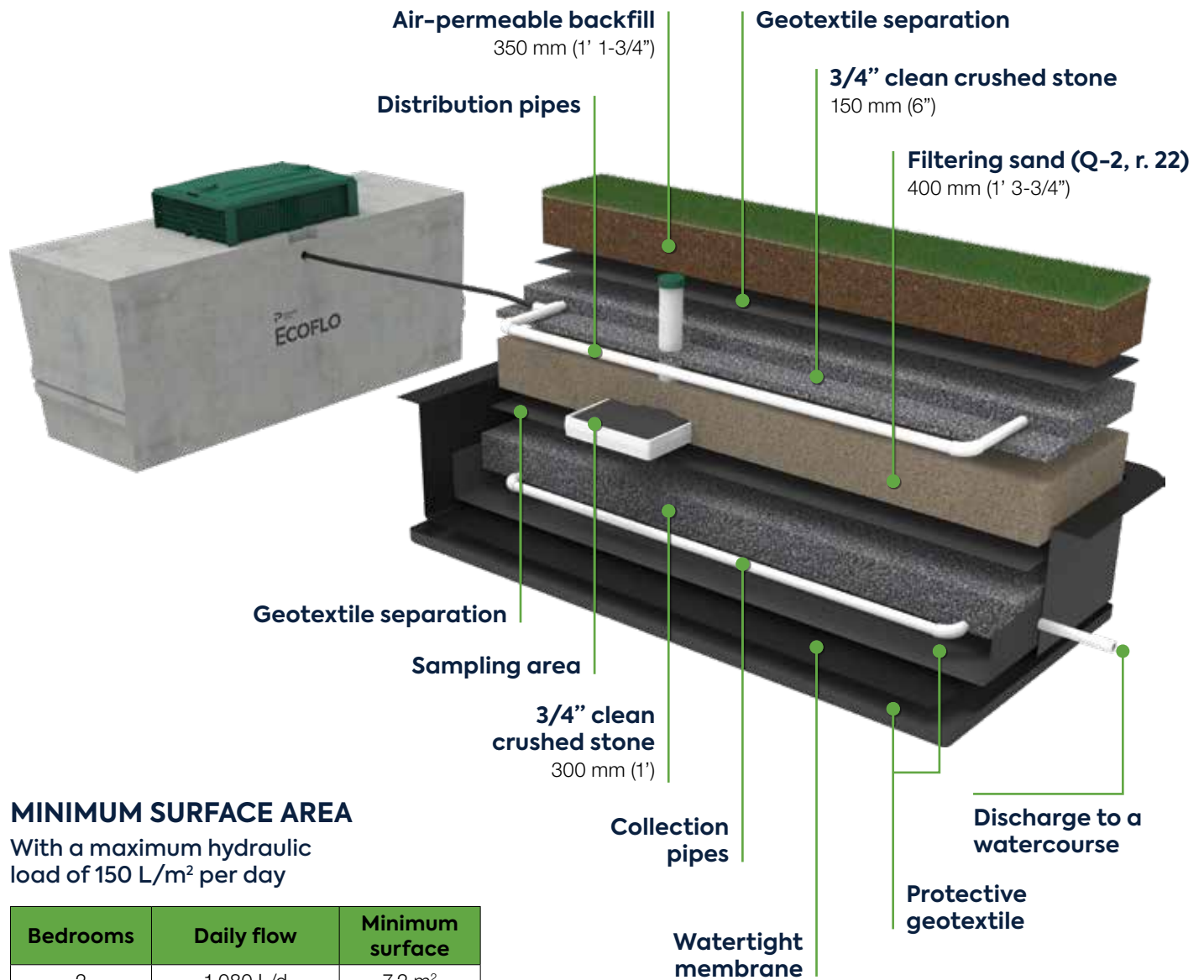
ECOFLO®

Sand filter discharging into a watercourse

For models with a 100% coco filter



Filtering sand



MINIMUM SURFACE AREA

With a maximum hydraulic load of 150 L/m² per day

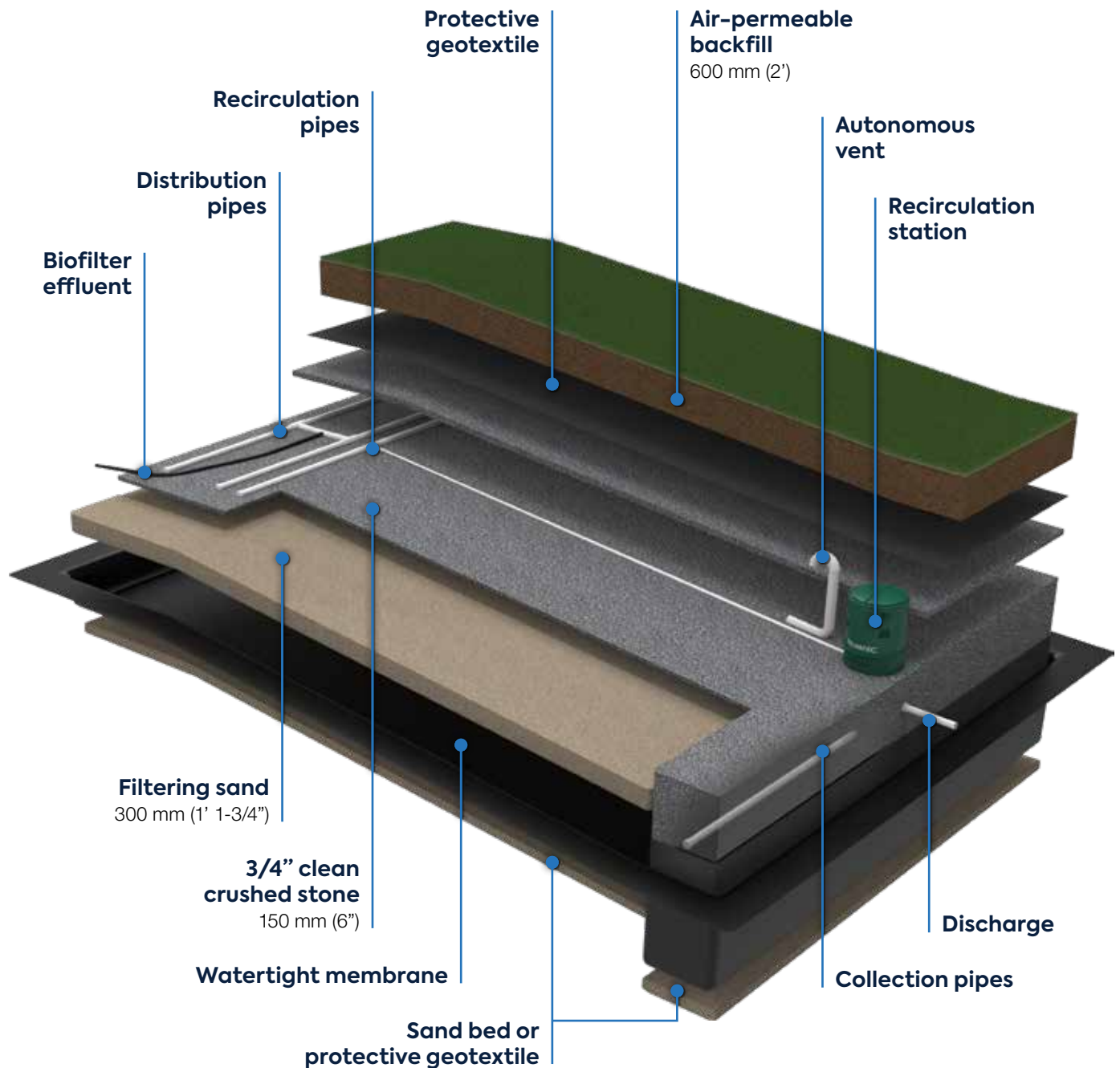
Bedrooms	Daily flow	Minimum surface
2	1,080 L/d	7.2 m ²
3	1,260 L/d	8.4 m ²
4	1,440 L/d	9.6 m ²
5	1,800 L/d	12 m ²
6	2,160 L/d	14.4 m ²
6+	3,240 L/d	21.6 m ²

REWATEC™

Passive disinfection filter (FDi)



Filtering sand



RECOMMENDED WIDTHS

Bedrooms	Hydraulic capacity	FDi width	
		100% coco filter	Coco and peat filter
≤ 2	1,080 L/d	5.4 m (17' 8")	4.8 m (15' 9")
3	1,260 L/d	6.3 m (20' 8")	5.6 m (18' 4")
4	1,440 L/d	7.2 m (23' 7")	6.4 m (21')
4+	1,620 L/d	8.1 m (26' 7")	7.2 m (23' 7")
5	1,800 L/d	9 m (29' 6")	8 m (26' 3")
6	2,160 L/d	2 sections of 5.4 m (17' 8")	2 sections of 4.8 m (15' 9")
—	3,240 L/d	2 sections of 8.1 m (26' 7")	2 sections of 7.2 m (23' 7")

MINIMUM QUANTITIES OF MATERIALS

Bedrooms	100% coco filter		Coco and peat filter	
	3/4" crushed stone	Filtering sand	3/4" crushed stone	Filtering sand
≤ 2	18,000 kg (18 t)	30,000 kg (30 t)	16,000 kg (16 t)	27,000 kg (27 t)
3	19,000 kg (19 t)	35,000 kg (35 t)	17,000 kg (17 t)	32,000 kg (32 t)
4	20,000 kg (20 t)	40,000 kg (40 t)	18,000 kg (18 t)	36,000 kg (36 t)
5	33,000 kg (33 t)	51,000 kg (51 t)	30,000 kg (30 t)	46,000 kg (46 t)
6	36,000 kg (36 t)	59,000 kg (59 t)	32,000 kg (32 t)	54,000 kg (54 t)

REQUIRED SAND SPECIFICATIONS

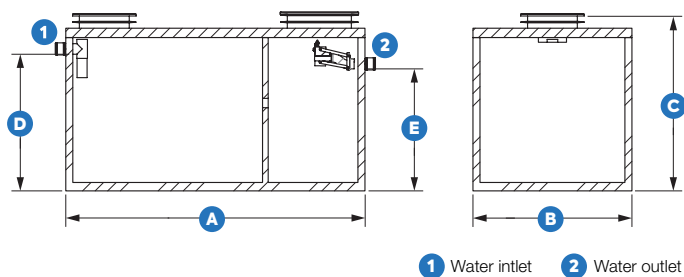
Parameter	Specification
Effective diameter (D_{10})	Between 0.15 and 0.45 mm
Uniformity coefficient (C_u)	≤ 5
Particles < 80 μ m	< 4%
Particles > 2.5 mm	< 20%

REWATEC™

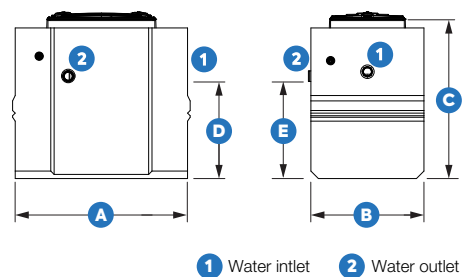
Phosphorus removal (DpEC)

		Polyethylene primary reactor (PRT-660P)	Concrete primary reactor (PRT-660B)	Electrocoagulation unit
Length	A	3,965 mm (13')	3,200 mm (10' 6")	1,900 mm (6' 2-3/4")
Width	B	1,330 mm (4' 4-3/8")	1,700 mm (5' 7")	1,250 mm (4' 1-1/4")
Height	C	1,818 mm (5' 11-5/8")	1,896 mm (6' 2-5/8")	1,880 mm (6' 2")
Inlet height	D	1,430 mm (4' 8-1/4")	1,462 mm (4' 9-5/8")	1,222 mm (4' 1/8")
Outlet height	E	1,270 mm (4' 2")	1,305 mm (4' 3")	1,140 mm (3' 8-7/8")
Weight		325 kg (717 lb)	5,370 kg (11,840 lb)	250 kg (550 lb)

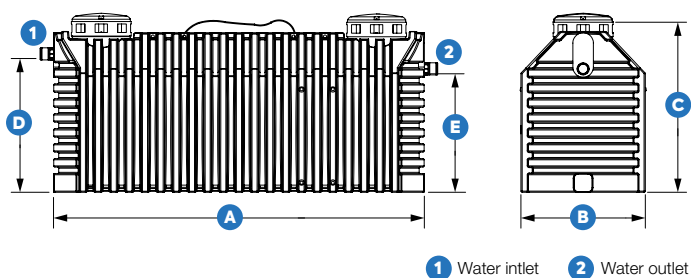
Concrete primary reactor



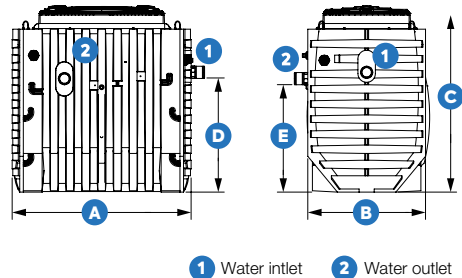
Concrete electrocoagulation unit



Polyethylene primary reactor



Polyethylene electrocoagulation unit



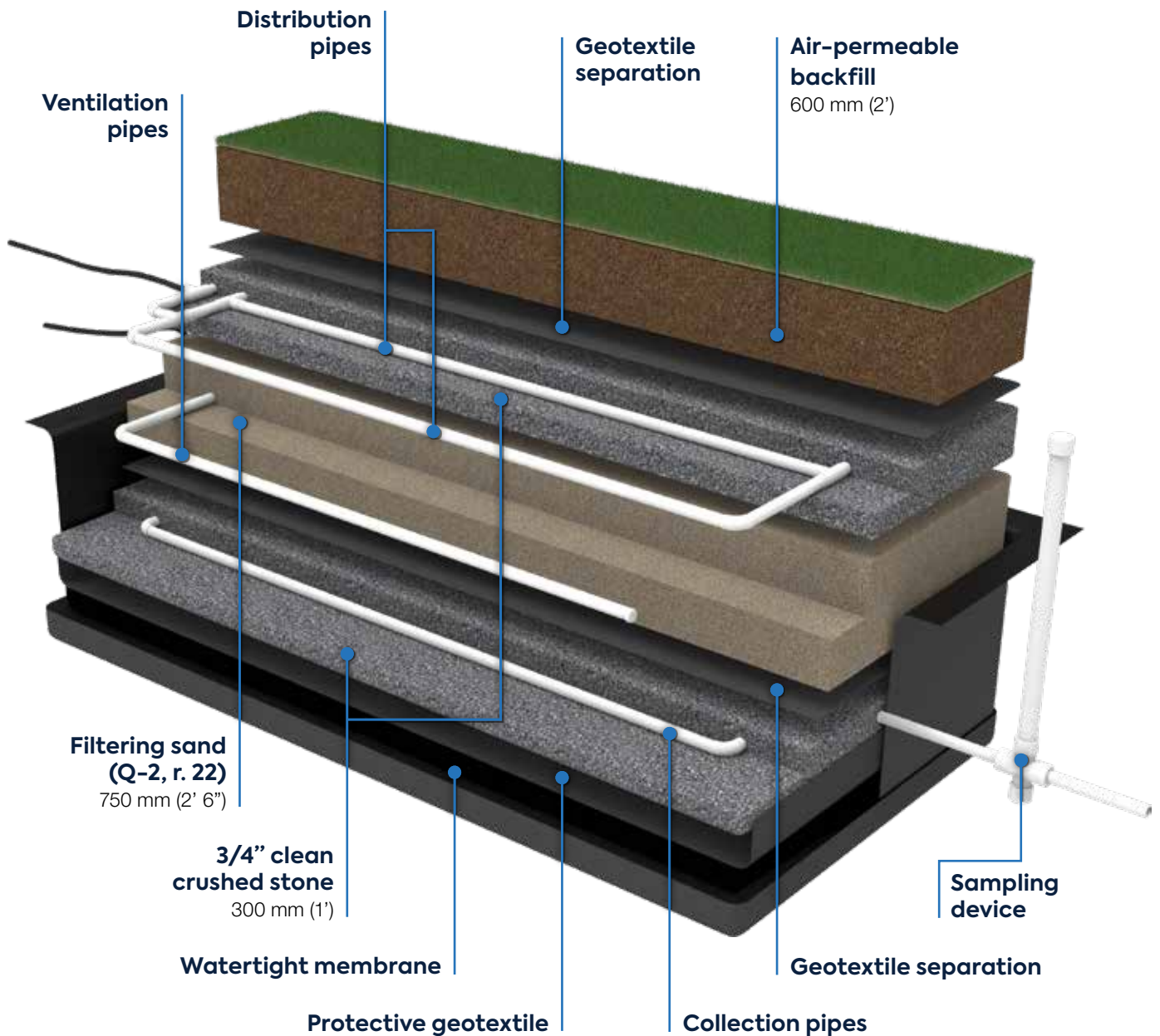
Water inlet
 Ø 100 mm (4") nominal

Water outlet
 Ø 100 mm (4") nominal

REWATEC™

Watertight sand filter

For phosphorus removal



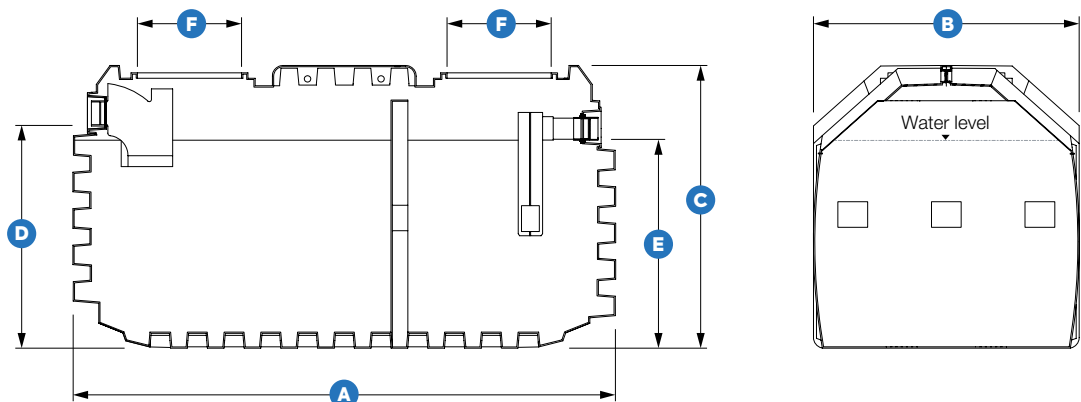
REWATEC™

Septic and holding tanks



	Septic tank with effluent filter						Holding tank*	
	PST-280	PST-340	PST-390	PST-440	PST-500	PST-660	PHT-390	PHT-660
Bedrooms	2	3	4	5	6		Year-round occupancy	
							1 and 2	3 to 6
							Seasonal occupancy	
							1 to 4	5 and 6
Total nominal capacity	2,800 L	3,400 L	3,900 L	4,400 L	4,800 L	6,650 L	3,900 L	6,650 L
Liquid capacity	2,260 L	3,000 L	3,300 L	3,700 L	4,100 L	5,800 L	3,450 L	5,900 L
Length A	2,495 mm (8' 2")	3,035 mm (9' 11-1/2")	3,320 mm (10' 10-1/2")	3,777 mm (12' 4-3/4")	2,920 mm (9' 7")	3,965 mm (13')	3,320 mm (10' 10-1/2")	3,965 mm (13')
Width B	1,250 mm (4' 1-1/4")				1,330 mm (4' 4-3/8")		1,250 mm (4' 1-1/4")	1,330 mm (4' 4-3/8")
Height C	1,330 mm (4' 4-3/8")				1,720 mm (5' 7-3/4")		1,490 mm (4' 10-5/8")	1,890 mm (6' 2-3/8")
Inlet height D	1,055 mm (3' 5-1/2")				1,400 mm (4' 7-1/8")		1,055 mm (3' 5-1/2")	1,400 mm (4' 7-1/8")
Outlet height E	980 mm (3' 2-1/2")				1,320 mm (4' 4")		—	
Openings diameter F	470 mm (1' 6-1/2")							
Weight	160 kg (353 lb)	180 kg (397 lb)	190 kg (419 lb)	210 kg (463 lb)	265 kg (584 lb)	325 kg (717 lb)	210 kg (463 lb)	350 kg (772 lb)
Certification	BNQ 3680-905						NQ 3682-901	

* Certified for certain applications by Health Canada's Health Products and Food Branch.



Pumping stations



	PSA-240	PSA-240H
Pump	120 V	
Float	On/off pump switch and alarm switch	
Length of base A	950 mm (3' 1-1/2")	
Width of base B	865 mm (2' 10")	
Height C	1,270 mm (4' 2")	1,625 mm (5' 4")
Inlet height D	635 mm (2' 1")	1,060 mm (3' 5-3/4")
Outlet height E	1,015 mm (3' 4")	
Riser height allowed	710 mm (2' 4")	
Weight	50 kg (110 lb)	56 kg (123 lb)
Effective dosing volume	150 L	255 L
Total volume At water inlet level	240 L	400 L

Water inlet

Ø 100 mm (4") nominal

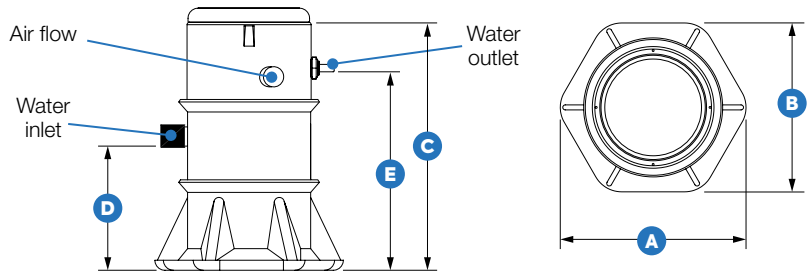
Water outlet

Ø 38 mm (1-1/2") or

Ø 50 mm (2") nominal

Air flow

Ø 100 mm (4") nominal



MAXIMUM PUMPING DISTANCES

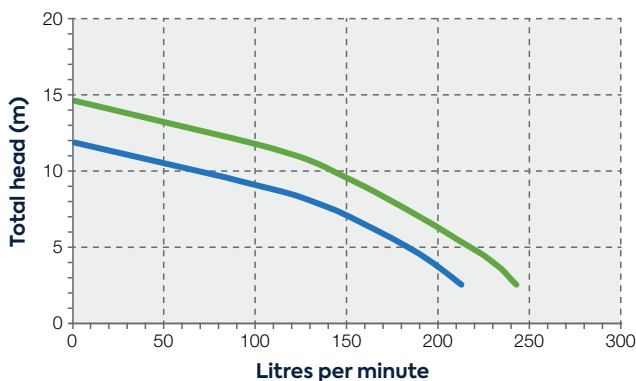
Ø 38 mm (1-1/2") nominal	Pipe length between pumping station and purification component							
	6 m (20')	12 m (40')	18 m (60')	24 m (80')	30 m (100')	36 m (120')	42 m (140')	48 m (160')
Wire length for on/off float								
100 mm (4")*	125 mm (5")	150 mm (6")	175 mm (7")	200 mm (8")†	225 mm (9")†	250 mm (10")†		

* The float is pre-adjusted to this length in the factory.

† Vertically move the alarm float 50 mm (2") higher than its original location on the float shaft. Maintain the same rope length of 75 mm (3").

Pumps

PERFORMANCE CURVE



Legend

- Champion 0.5 hp pump (with Ecoflo biofilter)
- Champion 0.4 hp pump (with integrated DiUV)
6.6 A, 1 phase, 60 Hz, 115 V



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