



GUIDE FOR PROFESSIONALS

ECOFLO[®]

Sustainable septic solution

25
year
OF SUSTAINABLE
DEVELOPMENT

Certified system accepted by all municipalities



Certified
to BNQ
standard
NQ 3680-910



Certified
to CAN/BNQ
standard
3680-600



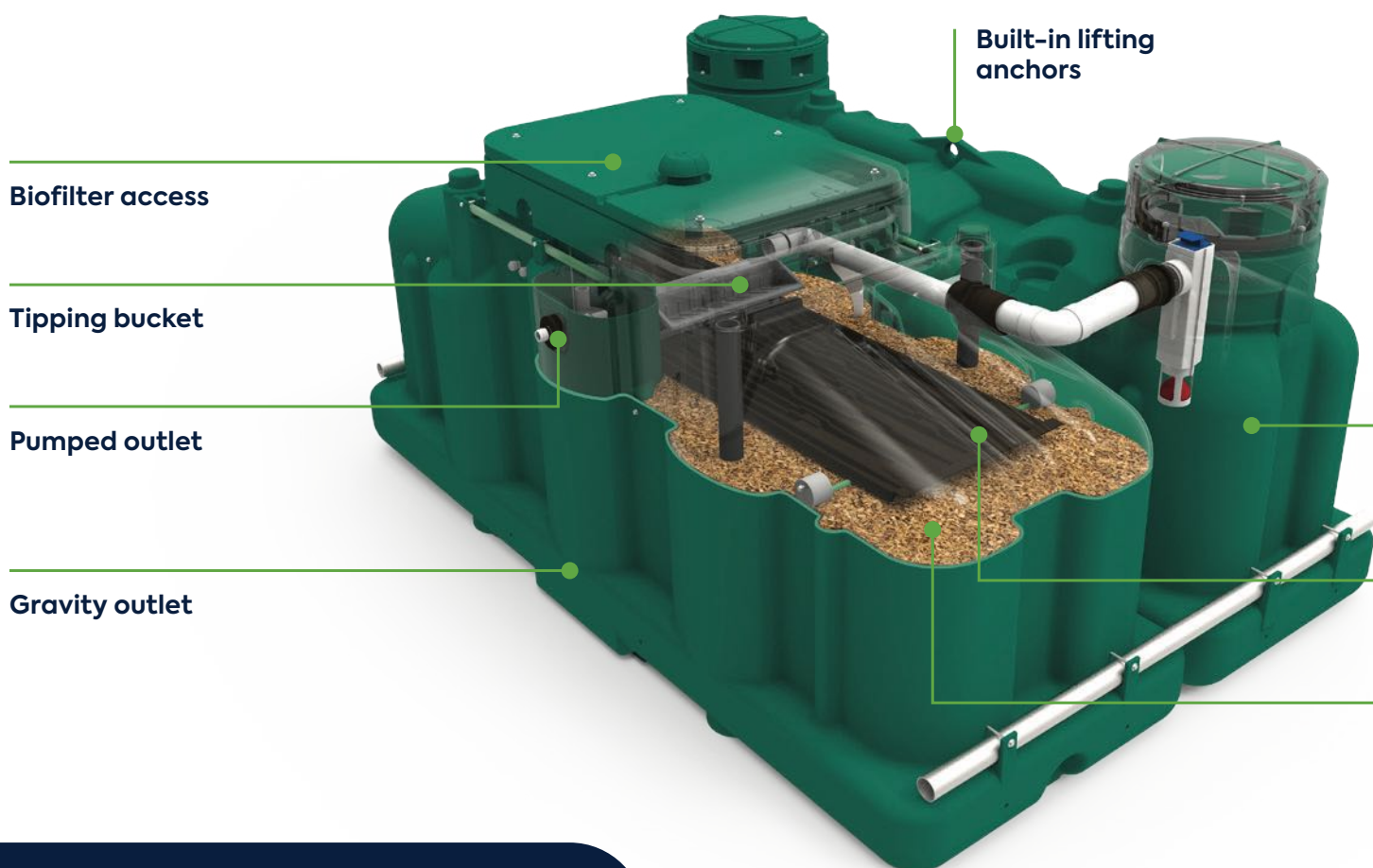
Certified
to NSF/ANSI
standard
40 & 245

Made in
Québec



ECOFLO IS HOW WE MAKE A SUSTAINABLE DIFFERENCE. TOGETHER.

Join us in the movement to make the world a better, more sustainable place. Protect your client's property and the environment by recommending Ecoflo, the most eco-responsible septic system available.



**THE #1 CHOICE IN QUÉBEC
FOR 25 YEARS!**

> 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

> MANUFACTURER SUPPORT

- expert advice, on site and by phone
- online technical information
- best warranty in the industry

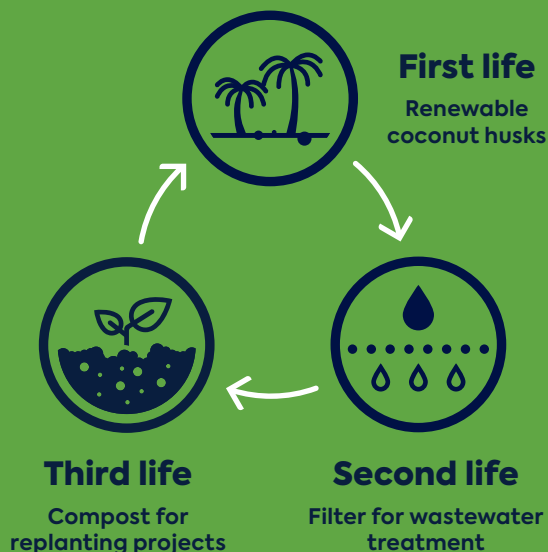
**Pack models include
primary treatment tank**

Distribution plates

Coco filter

NATURAL, RENEWABLE, COMPOSTABLE FILTER

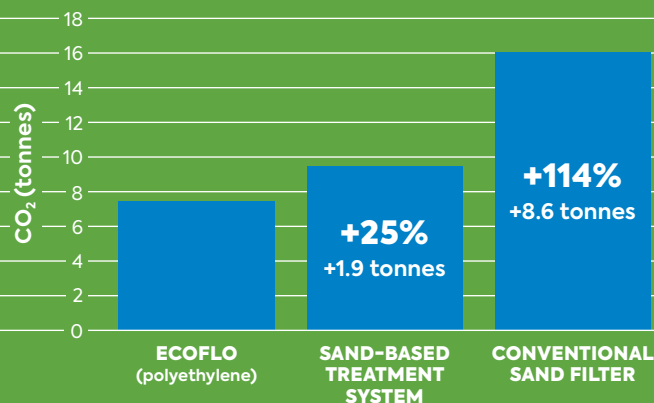
Ecoflo uses a filter made of coconut husk fragments, a renewable byproduct that is ideal for removing wastewater pollutants. Used coco filters are 100% compostable.



LOWEST CARBON FOOTPRINT

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

Total after 50-year life cycle



Notes

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

POST-INSTALLATION PEACE OF MIND



INFO-SHARING VISIT

After each installation, we visit new owners on site to teach them how Ecoflo works, answer their questions, and make sure their septic system is working perfectly.

ANNUAL MAINTENANCE

We have a province-wide network of partners, annually trained by us to maximize the life of your client's filtering medium and to protect their investment in their septic system.

- 15-point inspection
- filtering medium scarification to ensure optimal aeration and to promote healthy bacterial activity



GUARANTEED FILTER PERFORMANCE

By having the filtering medium in their Ecoflo biofilter replaced after 10 to 15 years, your client guarantees their system always protects their property and the environment

- no excavation required
- no damage to your client's landscaping
- used coco filters are 100% compostable (unlike petroleum-based filtering media)

BEST WARRANTY IN THE INDUSTRY

Proudly standing behind our products since 1995

10
YEARS

- concrete, polyethylene, and fibreglass tanks
- filtering media (coco and bi-layer)
- Premier Tech sand filters and disinfection filters (FDi)
- components and replacement parts*
- labour

ADVANTAGES FOR YOUR CLIENTS

INSTALLED FOR LIFE

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

PEACE-OF-MIND PERFORMANCE

- 24/7 autonomous operation
- never clogs your client's soil or contaminates their property
- best warranty in the industry

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

NATURAL, RENEWABLE, COMPOSTABLE FILTER

Ecoflo uses a filter made of coconut husk fragments, a renewable byproduct that is ideal for removing wastewater pollutants. Used coco filters are 100% compostable.

LOWEST CARBON FOOTPRINT

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



ECOFLO[®]

POLYETHYLENE PACK

All-in-one unit includes primary treatment tank and biofilter

1-4

BEDROOMS

1

EXCAVATIONS

100%
COCO

FILTER

Solution for:

- simple and quick installations
- sites with limited space

Advantages:

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

**IMPROVED
RISER**

**NEW DESIGN
COMING SOON!**



ECOFLO[®]

POLYETHYLENE

1-6

BEDROOMS

100%
COCO

FILTER

Solution for:

- sites with limited space

Advantages:

- compact and lightweight
- ready to use
- install in up to 600 mm (2') of groundwater (select models only)

**IMPROVED
RISER**

NEW DESIGN
COMING SOON!



Refer to pages 15 and 16 for technical information.

ECOFLO[®] CONCRETE

1-6

BEDROOMS

HIGH

GROUNDWATER

100%
COCO

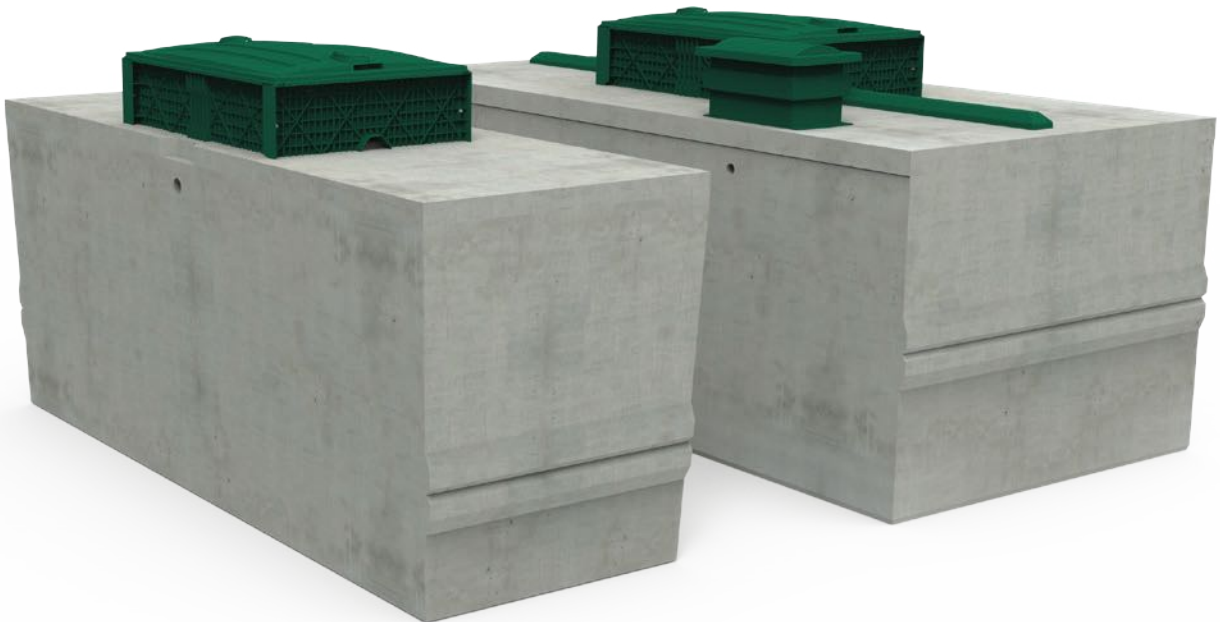
FILTER

Solution for:

- all soil types
- all water tables

Advantages:

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



ECOFLO[®]

BI-LAYER OPTIONS

1-4

BEDROOMS



DISCHARGE TO
WATERCOURSE



STANDARD
LEACHING FIELD

POLYETHYLENE

Solution for:

- sites with limited space

Refer to page 16 for technical information.

Advantages:

- compact and lightweight
- ready to use
- discharge into a watercourse or ditch (if required)



CONCRETE

Solution for:

- all soil types
- all water tables

Refer to page 18 for technical information.

Advantages:

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



FIBREGLASS

Solution for:

- sites with limited space
- gravity-discharge installations

Refer to page 19 for technical information.

Advantages:

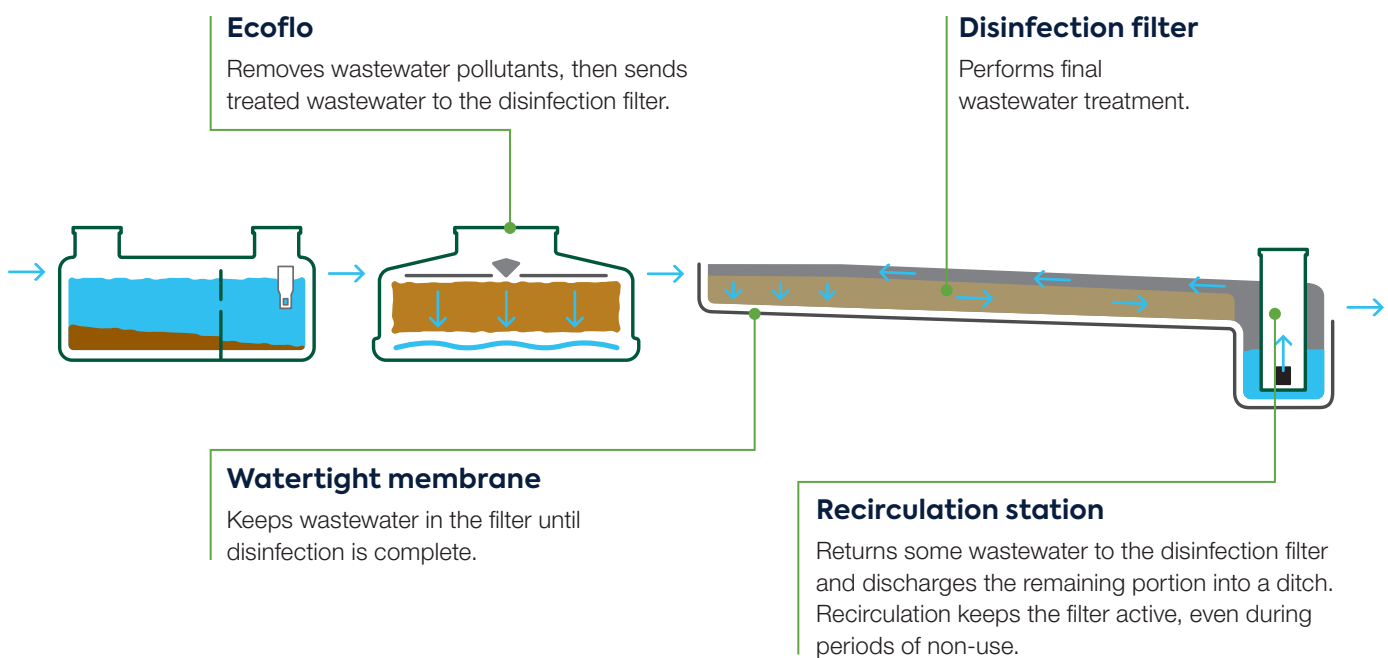
- standard leaching field directly under the tank
- compact and lightweight



ECOFLO[®]

DISINFECTION FILTER (FDi)

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



LOW MAINTENANCE

Our disinfection filter gives your clients passive treatment with minimal long-term maintenance costs.

10-YEAR WARRANTY

Your reputation matters. Our disinfection filter protects it by delivering effective, hassle-free wastewater treatment your clients can count on.

ECOFLO[®]

INTEGRATED UV DISINFECTION (DiUV)

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

Improved design

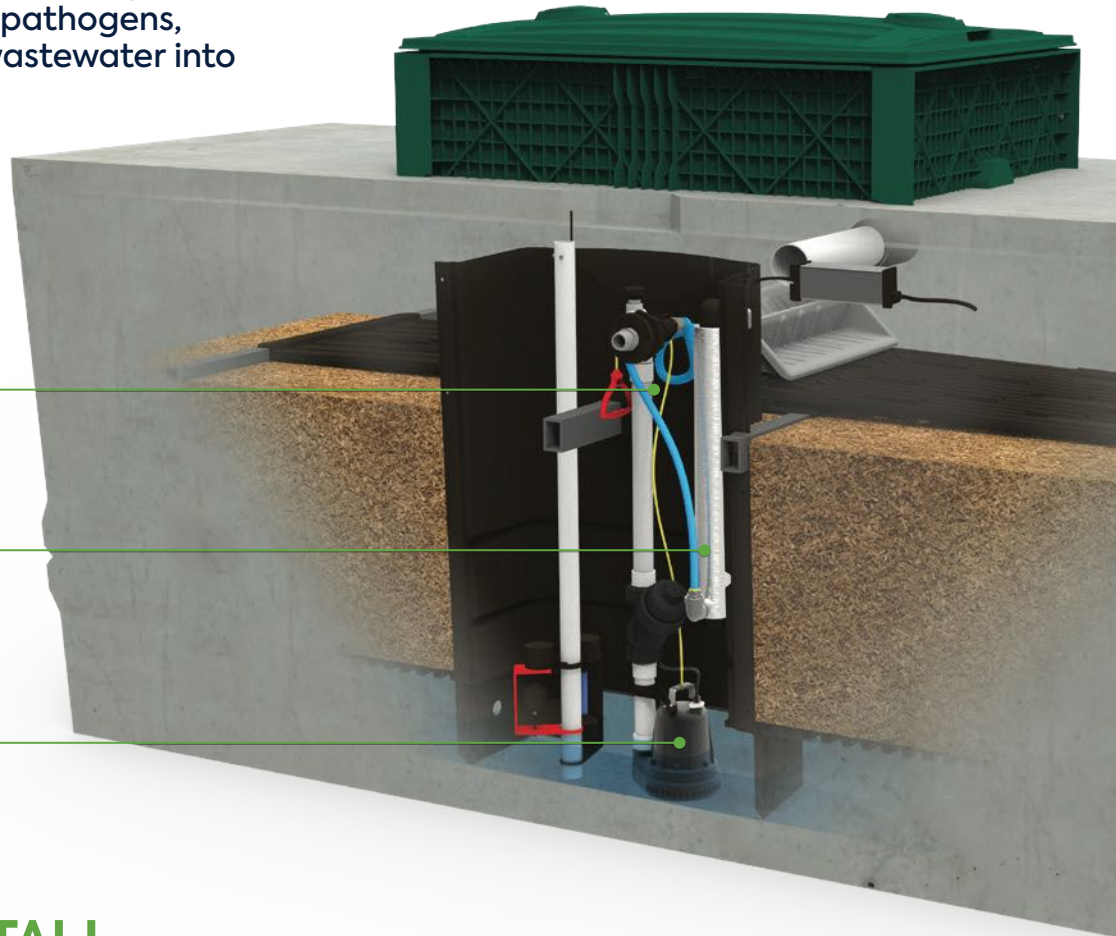
Strong, reliable parts ensure easy operation and maintenance.

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. It is also available in a separate tank.

WI-FI ALERTS



Our UV disinfection units now send us instant Wi-Fi alerts, so we can help your client protect their investment and the environment. If there is a problem, our service team will follow up on it.

REWATEC™

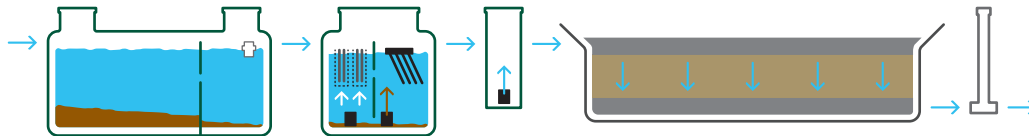
PHOSPHORUS REMOVAL (DpEC)

Solution for:

- effluents discharged near lakes or rivers

Function:

- removes phosphorus from wastewater
- protects ecologically sensitive areas by preventing harmful algae growth



Refer to page 25 for technical information.

COMPONENTS AND ACCESSORIES

SEPTIC TANKS

- rated for two to six bedrooms
- up to 6,600 L total nominal capacity

Refer to page 26
for technical information.



PUMPING STATIONS

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

Refer to page 27
for technical information.



PUMPS

- up to 0.5 hp
- reliable and durable

Refer to page 27
for technical information.



FLOW DIVIDERS

- pressurized or gravity flow
- two to 10 outlets



RISERS

- from 150 to 355 mm
(6" to 1' 2")



PRODUCT SPECIFICATIONS

PRODUCT LINE

PRODUCT LINE				TERTIARY TREATMENT OPTIONS			
				Disinfection filter (FDi)	Integrated UV disinfection (DIUV)	UV disinfection (DIUV) in separate tank	Phosphorus removal (DpEC)
ECO FLO®							
Bedrooms	Hydraulic Capacity	Model	Filter				
POLYETHYLENE							
2	1,080 L/d	EC-2.8-P-G/P	Coco	✓	✓	✓	✗
		EC-2.8-P-G/P-PACK	Coco	✓	✓	✓	✗
3	1,260 L/d	EC-3.4-P-G/P	Coco	✓	✓	✓	✗
		EC-3.4-P-G/P-PACK	Coco	✓	✓	✓	✗
		STB-570P/PR	Bi-layer	✓	✗	✓	✓
4	1,440 L/d	EC-4.1-P-G/P	Coco	✓	✓	✓	✗
		EC-4.1-P-G/P-PACK	Coco	✓	✓	✓	✗
4+	1,620 L/d	ST/STB-730P/PR	Bi-layer	✓	✗	✓	✓
5 and 6	2,160 L/d	EC-5.7-P-G/P	Coco	✓	✗	✓	✗
6+	2,810 L/d	EC-7.3-P-G/P	Coco	✓	✗	✓	✗
CONCRETE							
2	1,080 L/d	EC-2.8-C-G/P	Coco	✓	✓	✓	✗
		STB-500B/BR	Bi-layer	✓	✗	✓	✓
3	1,260 L/d	EC-3.4-C-G/P	Coco	✓	✓	✓	✗
4	1,440 L/d	EC-3.8-C-G/P	Coco	✓	✓	✓	✗
		STB-650B/BR	Bi-layer	✓	✗	✓	✓
5	1,800 L/d	EC-5.0-C-G/P	Coco	✓	✗	✓	✗
6+	2,500 L/d	EC-6.5-C-G/P	Coco	✓	✗	✓	✗
FIBREGLASS							
2	1,080 L/d	ST-500	Bi-layer	✓	✗	✗	✗
4	1,440 L/d	ST-650	Bi-layer	✓	✗	✗	✗

NEED HELP?

For help choosing the right Ecoflo model, tertiary treatment options, and accessories, call our expert in your area. You'll get free, professional advice to transform any challenge into a custom-made septic solution.

+1 800 632-6356

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
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	2,360 mm (7' 9")		2,480 mm (8' 2")
Height C <small>Includes 300 mm (12") of risers</small>	1,770 mm (5' 9-1/2")		
Inlet height of primary tank from bottom D	1,310 mm (4' 3-1/2")		
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 filtering medium</small>	760 kg (1,675 lb)	850 kg (1,870 lb)	950 kg (2,090 lb)
Built-in effective dosing volume <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 21		

Water inlet

Ø 100 mm (4") nominal

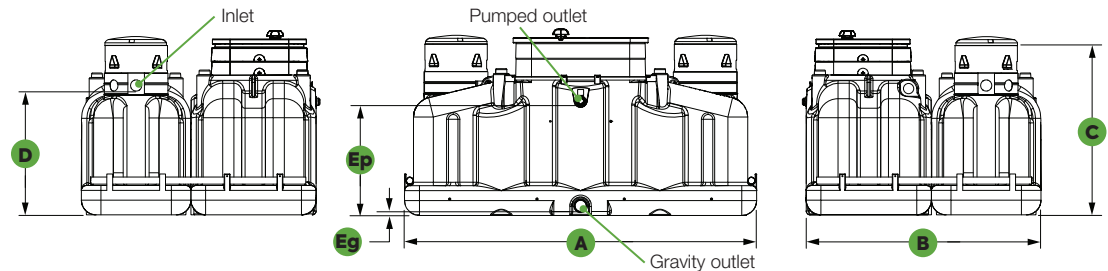
Gravity water outlet

Ø 100 mm (4") nominal

Pumped water outlet

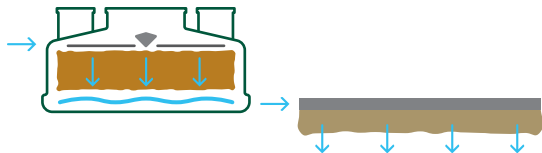
Ø 38 mm (1-1/2") or

Ø 25 mm (1") nominal

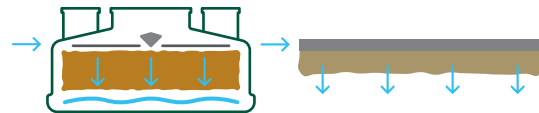


TYPICAL INSTALLATIONS

Gravity discharge to Premier Tech sand filter



Pumped discharge to Premier Tech sand filter



POLYETHYLENE

100% coco filter

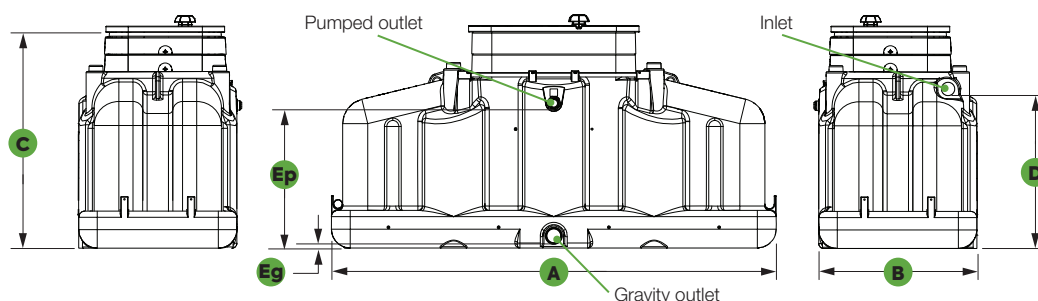


		EC-2.8-P-G/P	EC-3.4-P-G/P	EC-4.1-P-G/P
Bedrooms		2	3	4
Hydraulic capacity		1,080 L/d	1,260 L/d	1,440 L/d
Length	A	3,120 mm (10' 3")	3,550 mm (11' 8")	4,050 mm (13' 4")
Width	B	1,280 mm (4' 2")		
Height <small>Includes 300 mm (12") of risers</small>	C	1,770 mm (5' 9-1/2")		
Inlet height from bottom	D	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 filtering medium</small>		560 kg (1,235 lb)	610 kg (1,345 lb)	660 kg (1,455 lb)
Built-in effective dosing volume <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 21		

Water inlet
Ø 100 mm (4") nominal

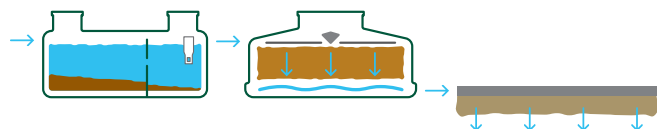
Gravity water outlet
Ø 100 mm (4") nominal

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

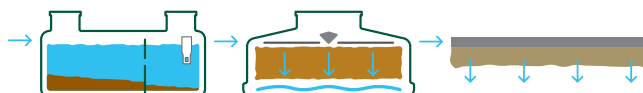


TYPICAL INSTALLATIONS

Gravity discharge to Premier Tech sand filter



Pumped discharge to Premier Tech sand filter



POLYETHYLENE

100% coco or bi-layer filter



	Coco Filter		Bi-layer Filter	
	EC-5.7-P-G/P	EC-7.3-P-G/P	STB-570P/PR	STB-730P/PR
Bedrooms	5 and 6	6+	3	4+
Hydraulic capacity	2,160 L/d	2,810 L/d	1,260 L/d	1,620 L/d
Length	A 3,380 mm (11' 1")	4,130 mm (13' 7")	3,380 mm (11' 1")	4,130 mm (13' 7")
Width	B 2,000 mm (6' 7")	2,050 mm (6' 9")	2,000 mm (6' 7")	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 filtering medium	1,200 kg (2,640 lb)	1,415 kg (3,120 lb)	1,200 kg (2,640 lb)	1,415 kg (3,120 lb)
Dosing volume Pumped discharge models only	115 L	150 L	115 L	150 L
Retention volume Between bottom of filtering medium and base of tank	500 L	610 L	500 L	610 L
Maximum pumping distances	Refer to the table on page 21			

Water inlet

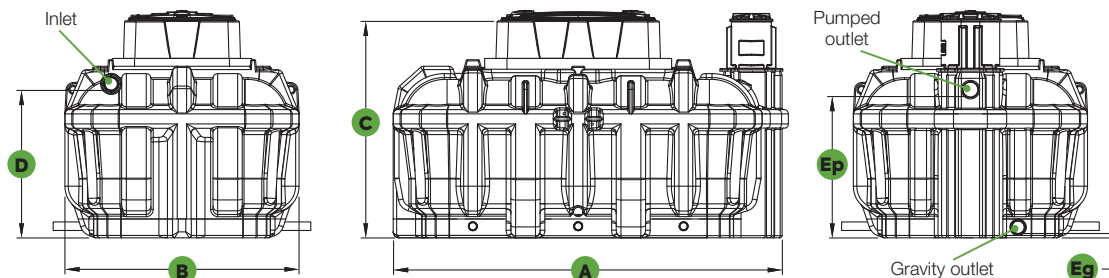
Ø 100 mm (4") nominal

Gravity water outlet

Ø 100 mm (4") nominal

Pumped water outlet

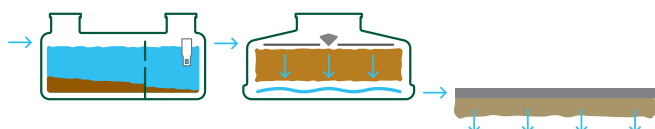
Coco: 25 mm (1") or
38 mm (1-1/2") nominal
Bi-layer: 25 mm (1") nominal



TYPICAL INSTALLATIONS

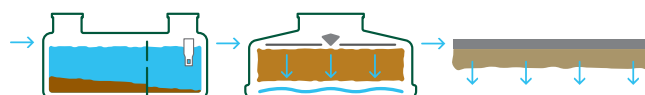
Coco filter: gravity discharge to Premier Tech sand filter

Bi-layer filter: gravity discharge to leaching field



Coco filter: pumped discharge to Premier Tech sand filter

Bi-layer filter: pumped discharge to leaching field



CONCRETE

100% coco filter



		EC-2.8-C	EC-3.4-C	EC-3.8-C
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	1,800 mm (5' 11")		
Inlet height from bottom	D	1,210 mm (4')		
Gravity water outlet height	Eg	120 mm (4-3/4")		
Pumped water outlet height	Ep	1,170 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 21		

Water inlet

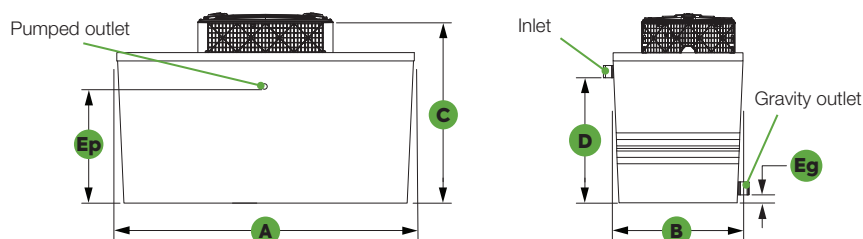
Ø 100 mm (4") nominal

Gravity water outlet

Ø 100 mm (4") nominal

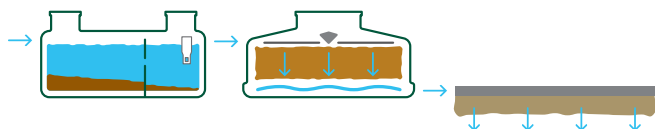
Pumped water outlet

Ø 25 mm (1") nominal

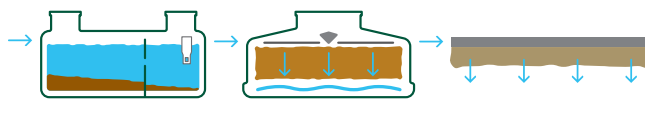


TYPICAL INSTALLATIONS

Gravity discharge to Premier Tech sand filter



Pumped discharge to Premier Tech sand filter



CONCRETE

100% coco or bi-layer filter



	Coco Filter		Bi-layer Filter	
	EC-5.0-C-P	EC-6.5-C-P	STB-500B/BR	STB-650B/BR
Bedrooms	5	6+	2	4
Hydraulic capacity	1,800 L/d	2,500 L/d	1,260 L/d	1,440 L/d
Length A	2,980 mm (9' 9-1/4")	3,850 mm (12' 7-1/2")	2,980 mm (9' 9-1/4")	3,850 mm (12' 7-1/2")
Width B	1,960 mm (6' 5")	1,970 mm (6' 5-1/2")	1,960 mm (6' 5")	1,970 mm (6' 5-1/2")
Height C	1,870 mm (6' 2")	1,820 mm (6')	1,870 mm (6' 2")	1,820 mm (6')
Inlet height from bottom D	1,325 mm (4' 4")	1,330 mm (4' 4-3/8")	1,325 mm (4' 4")	1,330 mm (4' 4-3/8")
Gravity water outlet height Eg	200 mm (8")	150 mm (6")	200 mm (8")	150 mm (6")
Pumped water outlet height Ep	1,390 mm (4' 7")	1,340 mm (4' 5")	1,390 mm (4' 7")	1,340 mm (4' 5")
Riser height allowed	200 mm (8")			
Tank weight	3,630 kg (8,000 lb)	4,990 kg (11,000 lb)	3,630 kg (8,000 lb)	4,990 kg (11,000 lb)
Tank and upper slab weight	5,220 kg (11,500 lb)	6,805 kg (15,000 lb)	5,220 kg (11,500 lb)	6,805 kg (15,000 lb)
Tank and filtering medium weight	3,990 kg (8,790 lb)	5,450 kg (12,020 lb)	3,990 kg (8,790 lb)	5,450 kg (12,020 lb)
Total weight <small>Includes tank, upper slab, internal components, and filtering medium</small>	5,575 kg (12,290 lb)	7,270 kg (16,020 lb)	5,575 kg (12,290 lb)	7,270 kg (16,020 lb)
Dosing volume <small>Pumped discharge models only</small>	160 L	200 L	160 L	200 L
Retention volume <small>Between bottom of filtering medium and base of tank</small>	430 L	545 L	430 L	545 L
Maximum pumping distances	Refer to the table on page 21			

Water inlet

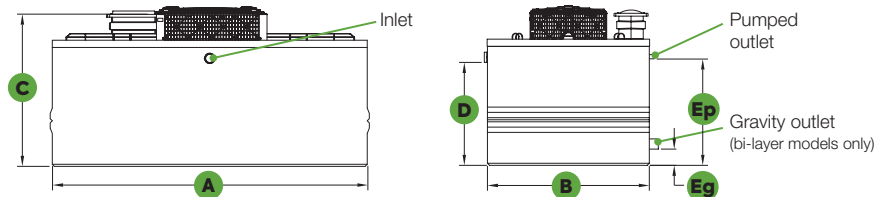
Ø 100 mm (4") nominal

Gravity water outlet

Ø 100 mm (4") nominal

Pumped water outlet

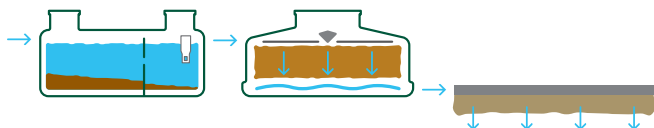
Ø 25 mm (1") nominal



TYPICAL INSTALLATIONS

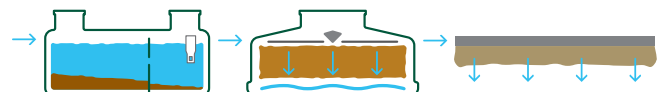
Coco filter: gravity discharge to Premier Tech sand filter

Bi-layer filter: gravity discharge to leaching field



Coco filter: pumped discharge to Premier Tech sand filter

Bi-layer filter: pumped discharge to leaching field



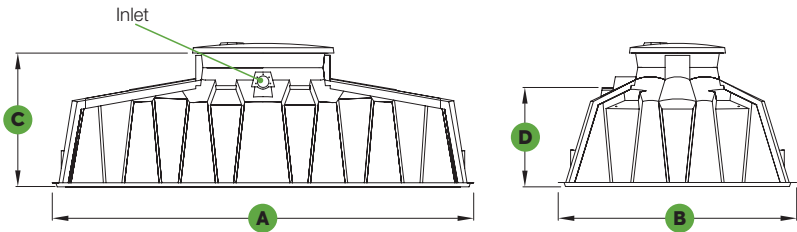
FIBREGLASS

Bi-layer filter



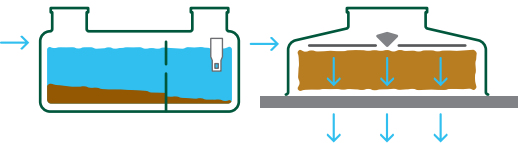
		ST-500	ST-650
Bedrooms		2	4
Hydraulic capacity		1,080 L/d	1,440 L/d
Length	A	3,345 mm (11')	4,175 mm (13' 8")
Width	B	2,361 mm (7' 9")	
Height	C	1,320 mm (4' 4")	
Inlet height from bottom	D	970 mm (3' 2")	
Riser height allowed		No risers allowed	
Weight		115 kg (250 lb)	135 kg (300 lb)

Water inlet
 Ø 100 mm (4") nominal



TYPICAL INSTALLATION

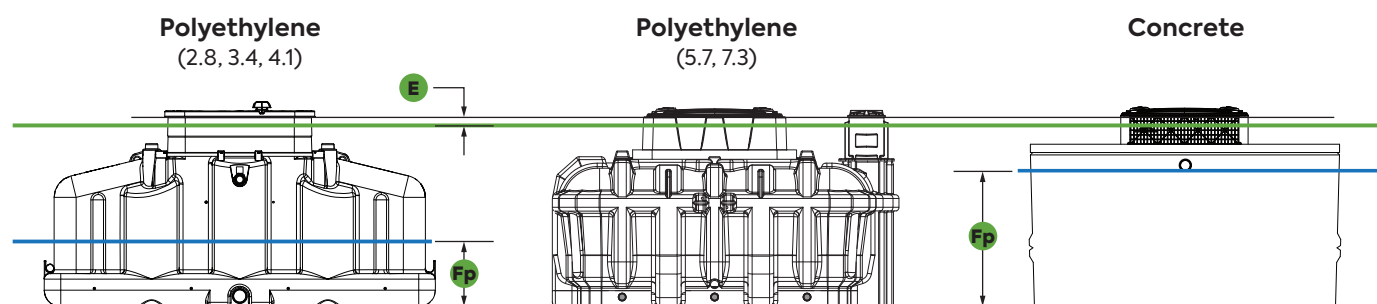
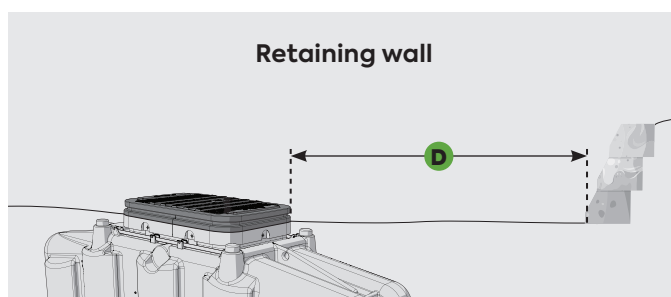
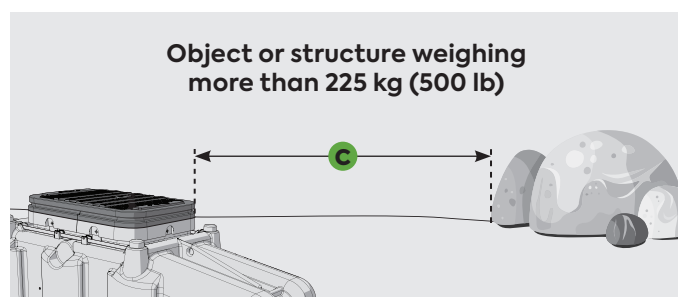
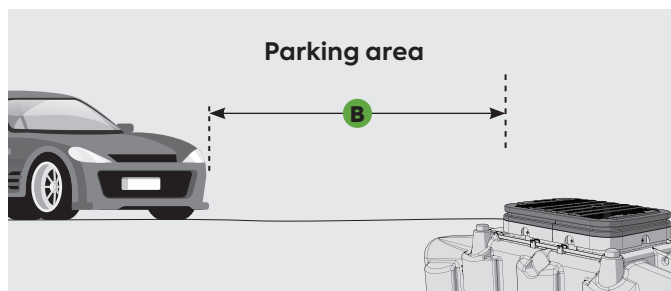
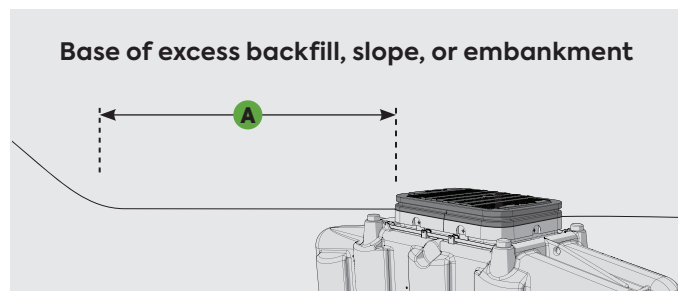
Standard leaching field directly under the tank



RECOMMENDED DISTANCES

Installations must comply with distances outlined in sections 7.1 and 7.2 of Q-2, r. 22. We also recommend the following distances. Failure to abide by these guidelines may void the warranty of the installation.

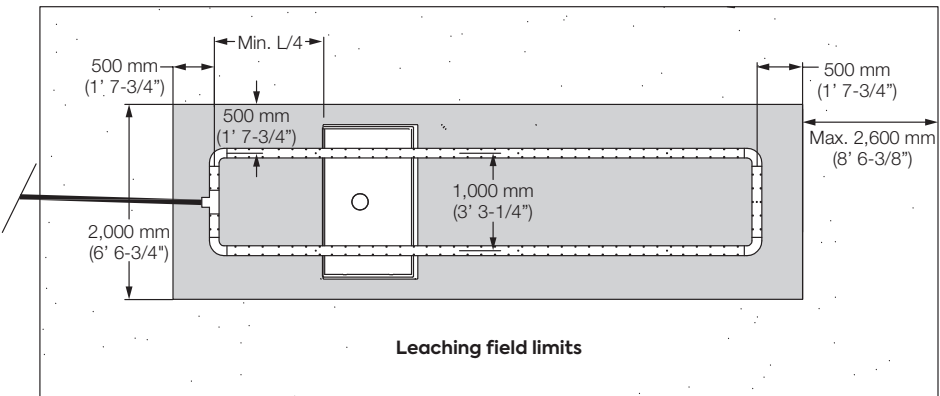
Reference Points		Polyethylene		Concrete	Fibreglass
		2.8, 3.4, 4.1	5.7, 7.3		
Base of excess backfill, slopes, or embankments vs. biofilter lid	A	4 m (13')		3 m (10')	5 m (16')
Parking area vs. biofilter lid	B	4 m (13')		3 m (10')	5 m (16')
Object or structure weighing more than 225 kg (500 lb) vs. biofilter lid	C	4 m (13')		3 m (10')	5 m (16')
Retaining wall vs. biofilter lid	D	4 m (13')		3 m (10')	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



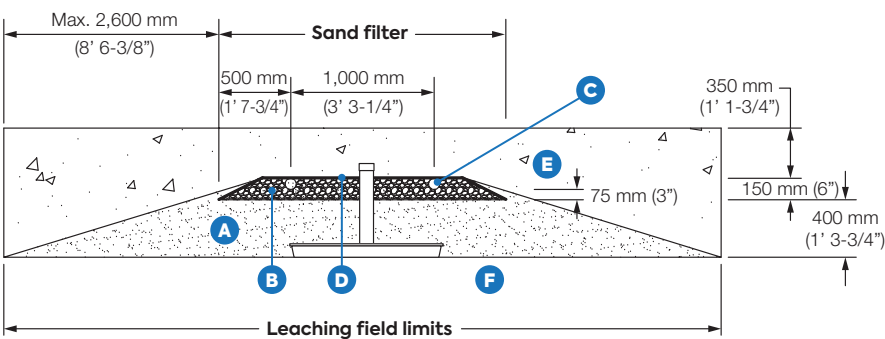
PREMIER TECH SAND FILTER

INSTALLATION DIMENSIONS

Top view



Side view



- Legend**
- A. Filtering sand (Q-2, r. 22)
 - B. Particle-free 3/4" crushed stone
 - C. 75 mm (3") perforated PVC rigid pipe
 - D. Geotextile separation
 - E. Air-permeable backfill
 - F. Receiving soil

MINIMUM SURFACE AREA

With maximum hydraulic load of 150 L/m² per day

Bedrooms	Daily Flow	Minimum Surface Area
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

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 mm	< 20%

MAXIMUM PUMPING DISTANCES

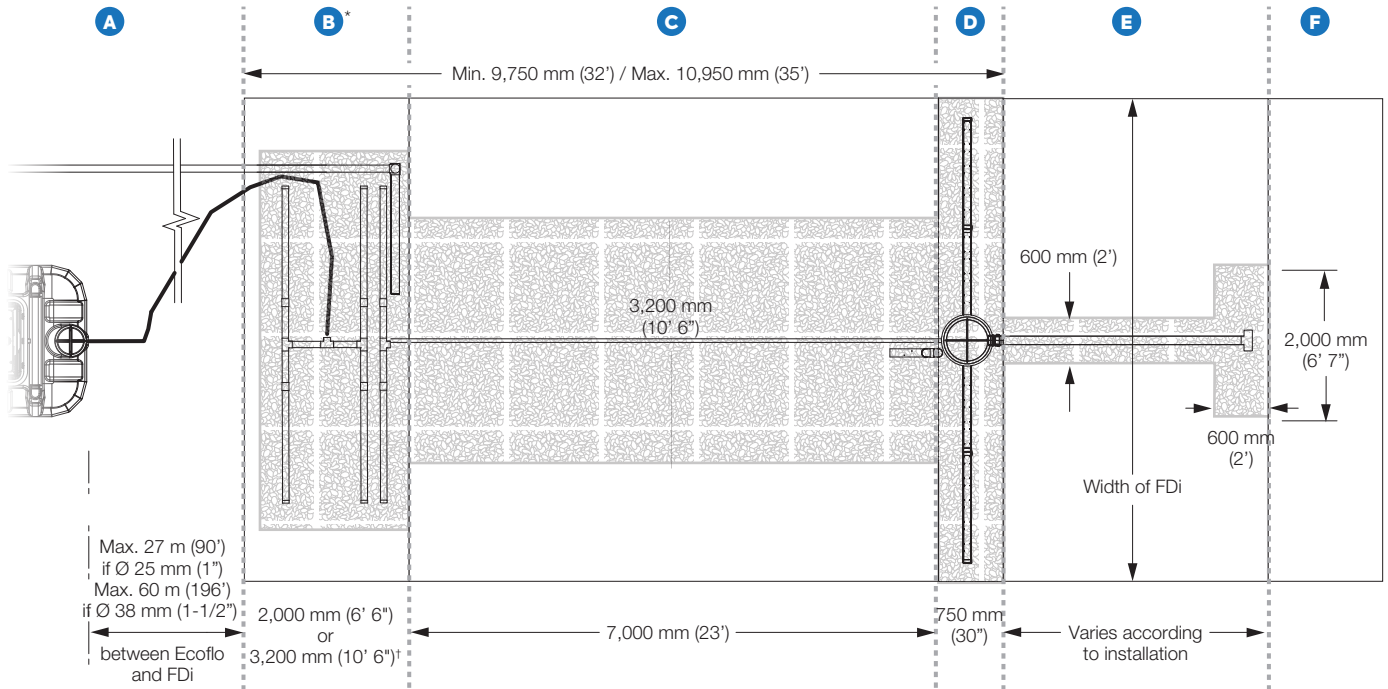
	Water Head				
	7.5 m (25')	6 m (20')	4.5 m (15')	3 m (10')	1.5 m (5')
Maximum length Ø 25 mm (1") pipe	7.5 m (25')	18 m (60')	21 m (70')	24 m (80')	27 m (90')
Maximum length Ø 38 mm (1-1/2") pipe*	30 m (100')		60 m (200')		

* Excluding concrete models 2.8 and 6.5.

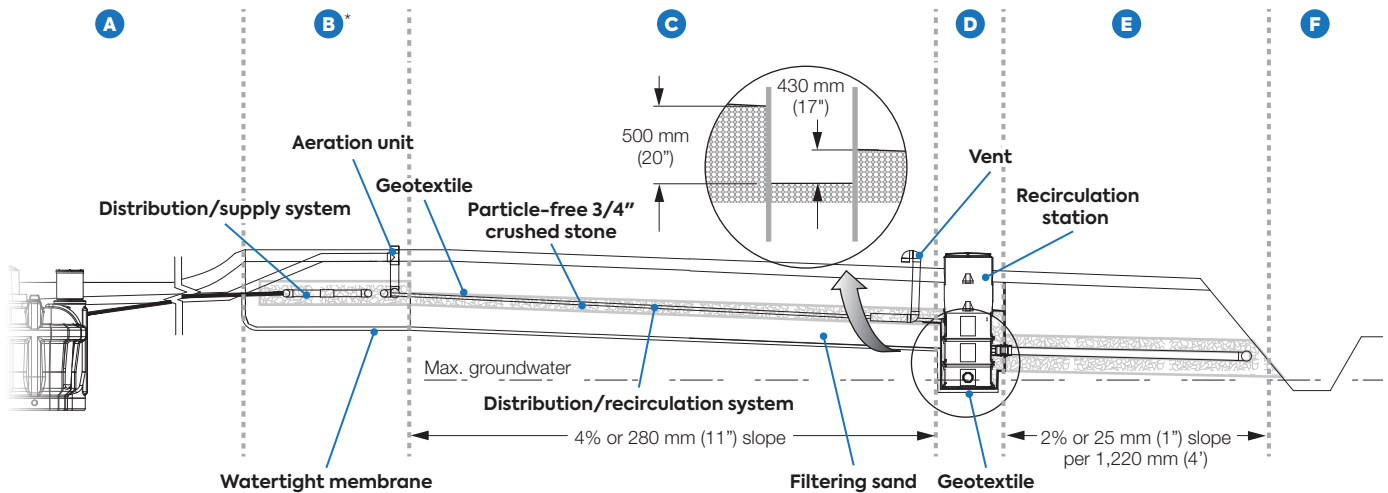
DISINFECTION FILTER (FDi)

INSTALLATION DIMENSIONS

Top view



Side view



Legend

- A. Ecoflo
- B. Entry zone
- C. Leaching field
- D. Collection zone
- E. Emissary zone
- F. Watercourse or ditch

Notes

- * Install Ecoflo with open or perforated bottoms directly above the intake zone.
- † Open-bottom or perforated models only.

Recommended widths

Bedrooms	Hydraulic Capacity	FDi Width	
		Coco Filter	Bi-layer Filter
≤ 2	1,080 L/d	5.4 m (17' 8-1/2")	4.8 m (15' 9")
3	1,260 L/d	6.3 m (20' 8")	5.6 m (18' 4-1/2")
4	1,440 L/d	7.2 m (23' 7-1/2")	6.4 m (21')
4+	1,620 L/d	8.1 m (26' 7")	7.2 m (23' 7-1/2")
5	1,800 L/d	9 m (14' 9")	2 sections of 4 m (13' 1-1/2")
6	2,160 L/d	2 sections of 5.4 m (17' 8-1/2")	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' 7-1/2")

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.

MINIMUM QUANTITIES OF MATERIALS

Bedrooms	Coco Filter		Bi-layer Filter	
	3/4" Crushed Stone	Filtering Sand	3/4" Crushed Stone	Filtering Sand
≤ 2	18 t	30 t	16 t	27 t
3	19 t	35 t	17 t	32 t
4	20 t	40 t	18 t	36 t
5	33 t	51 t	30 t	46 t
6	36 t	59 t	32 t	54 t

SAND SPECIFICATIONS

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

TREATMENT RESULTS (BNQ)

Parameter	Effluent Standard	FDi Effluent
TSS	< 15 mg/L	2 mg/L
CBOD ₅	< 15 mg/L	2 mg/L
Fecal coliforms	< 200 CFU/100 mL	10 CFU/100 mL

UV DISINFECTION (DiUV)

TREATMENT RESULTS (BNQ)

Parameter	Effluent Standard	DiUV Effluent
TSS	< 15 mg/L	4 mg/L
CBOD ₅	< 15 mg/L	4 mg/L
Fecal coliforms	< 20 CFU/100 mL*	< 2 CFU/100 mL*

* Before photoreactivation.

CLASSIC UV DISINFECTION

INTEGRATED OR SEPARATE TANK

Quartz sleeve

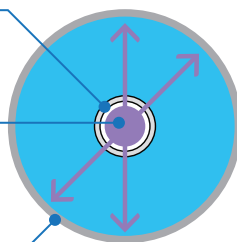
Isolates UV lamp.

70 W UV lamp

Exposes wastewater pathogens to UV radiation.

Stainless steel pipe

Holds wastewater for UV disinfection.



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

Quartz sleeve

Holds wastewater for UV disinfection.

Stainless steel wiper blade

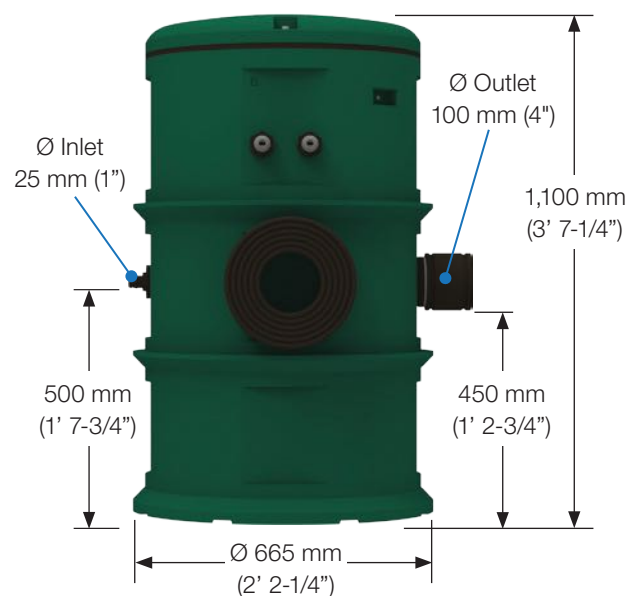
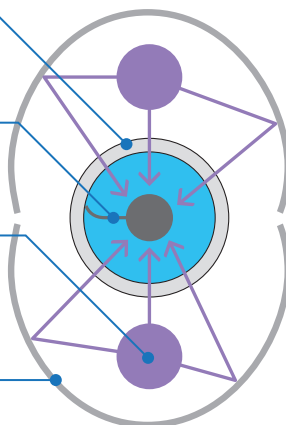
Cleans quartz sleeve six times per day.

108 W UV lamps

Expose wastewater pathogens to UV radiation.

Elliptical reflectors

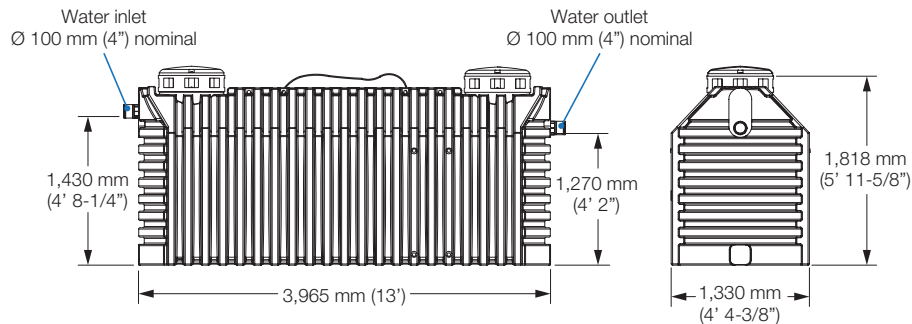
Reflect UV radiation to optimize the treatment process.



PHOSPHORUS REMOVAL (DpEC)

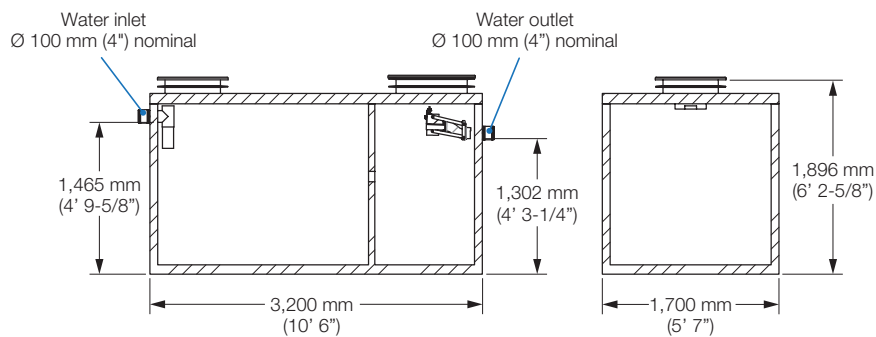
TANK DIMENSIONS

Polyethylene primary reactor (PRT-660P)



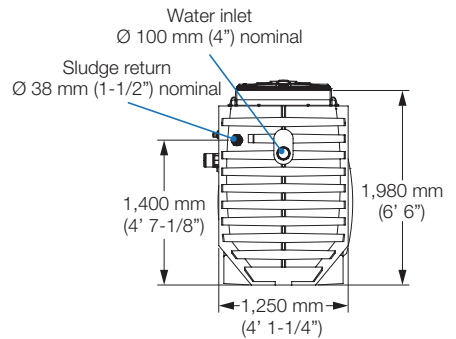
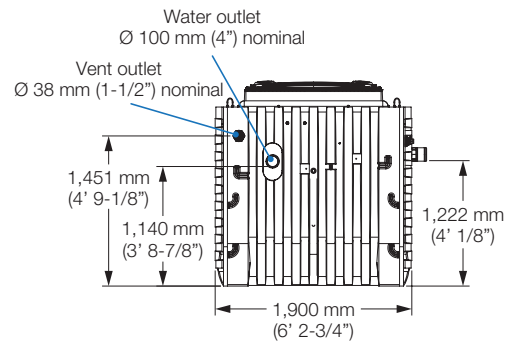
Weight: 325 kg (717 lb)

Concrete primary reactor (PRT-660B)



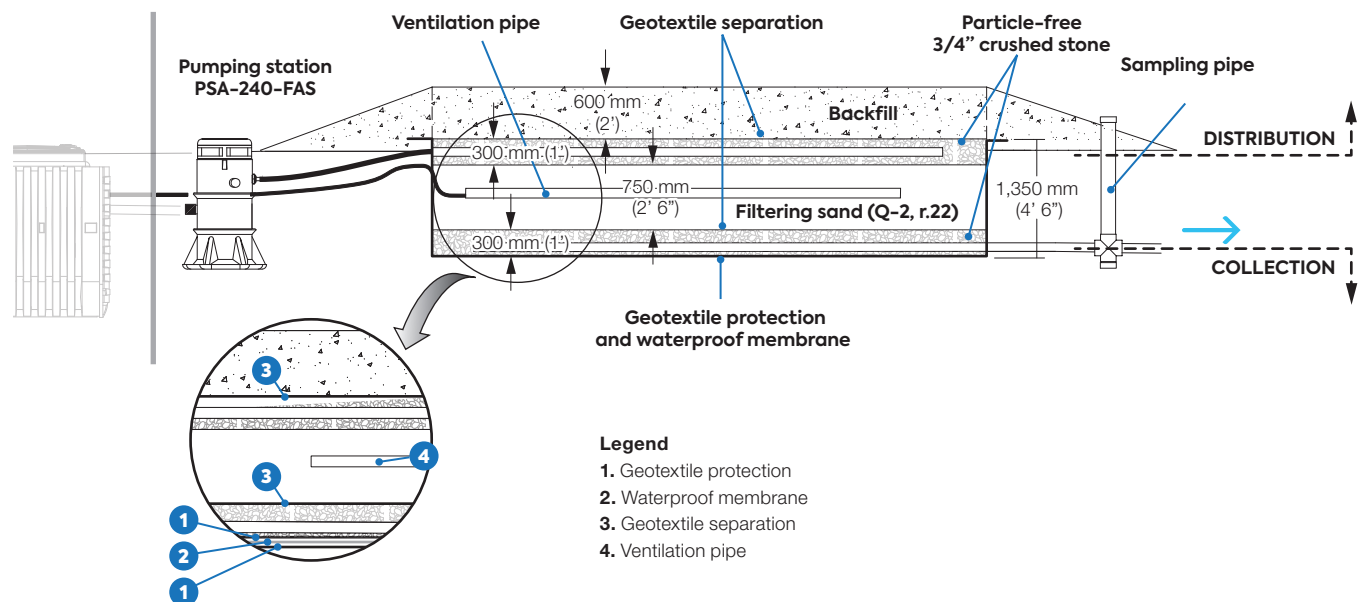
Weight: 5,370 kg (11,840 lb)

Electrocoagulation unit









Weight: 250 kg (550 lb)

SAND FILTER DIMENSIONS

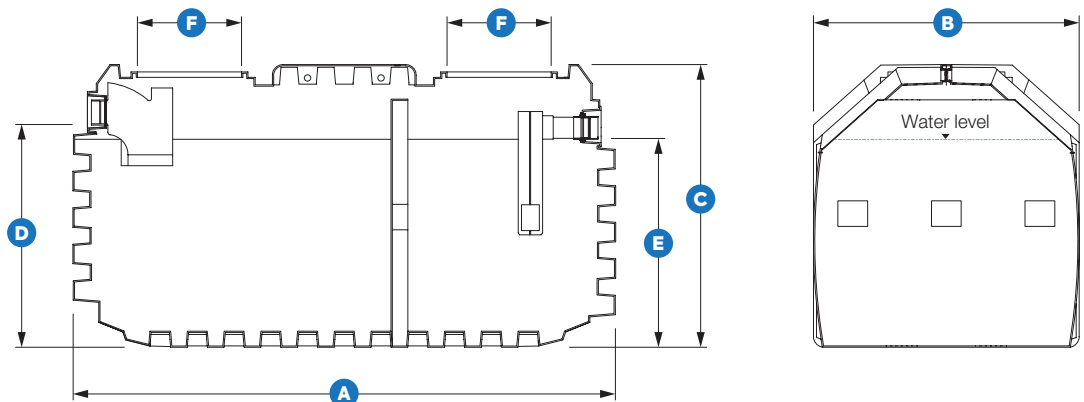


SEPTIC AND HOLDING TANKS



	Septic Tanks with Effluent Filter						Holding Tanks*	
	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 	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 	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 	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 	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 	980 mm (3' 2-1/2")				1,320 mm (4' 4")		—	
Openings diameter 	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

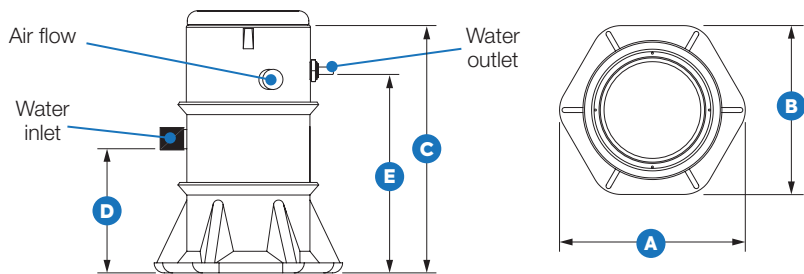


		PSA-240	PSA-240H
Pump		120 V	
Float		On/off pump switch and alarm switch	
Length of base	A	950 mm (3' 1-1/2")	
Width of base	B	865 mm (2' 10")	
Height	C	1,270 mm (4' 2")	1,625 mm (5' 4")
Inlet height	D	635 mm (2' 1")	1,060 mm (3' 5-3/4")
Outlet height	E	1,015 mm (3' 4")	
Riser height allowed		710 mm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

Water inlet
 Ø 100 mm (4") nominal

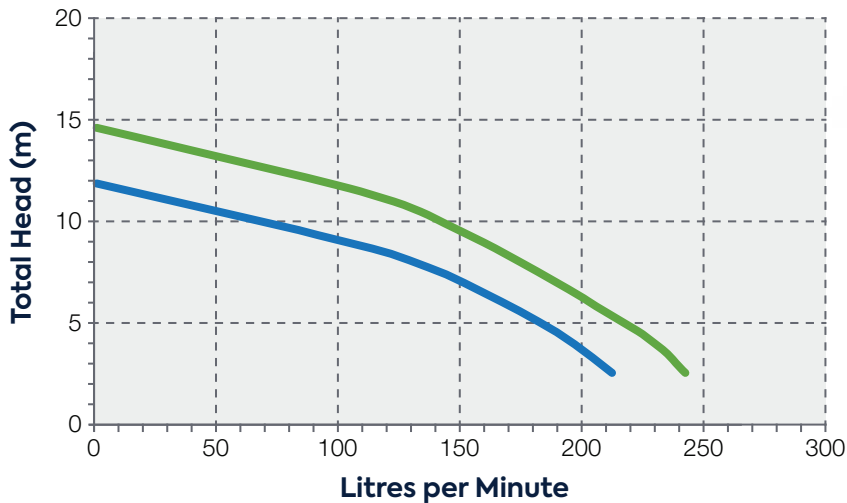
Water outlet
 Ø 38 mm (1-1/2") or
 Ø 50 mm (2") nominal

Air flow
 Ø 100 mm (4") nominal



PUMPS

PERFORMANCE CURVE



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

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