PREMIER TECH

Guide for professionals

ECOFLO® REWATEC™

NSF Certified to NSF/ANSI standard 40 & 245

Certified to CAN/BNQ standard 3680-600

Certified to BNQ standard NQ 3680-910

People and Technologies making a difference

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

- **founded in 1923**
- **family business**
- **3,000 team members in North America**
- **5,200 team members worldwide in 28 countries**
- **25 manufacturing facilities in North America**
- **48 factories in 16 countries**

Through its Water and Environment business group, Premier Tech is a world leader in designing and manufacturing sustainable local solutions for:

Wastewater treatment

Residential

Commercial

Rainwater management

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

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 questions.

IN-PERSON FIELD SUPPORT

Experts go on-site to assist in resolving challenges.

ACCESSIBLE TRAINING

Online and in-person training programs for installers, designers, and regulators.

10 YEAR WARRANTY

MOST COMPLETE WARRANTY IN THE INDUSTRY

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

* See owner's manual for details.

AFTER-SALES SERVICE FROM THE MANUFACTURER

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

PRO SPACE

Quickly find all the documents you need in one place:

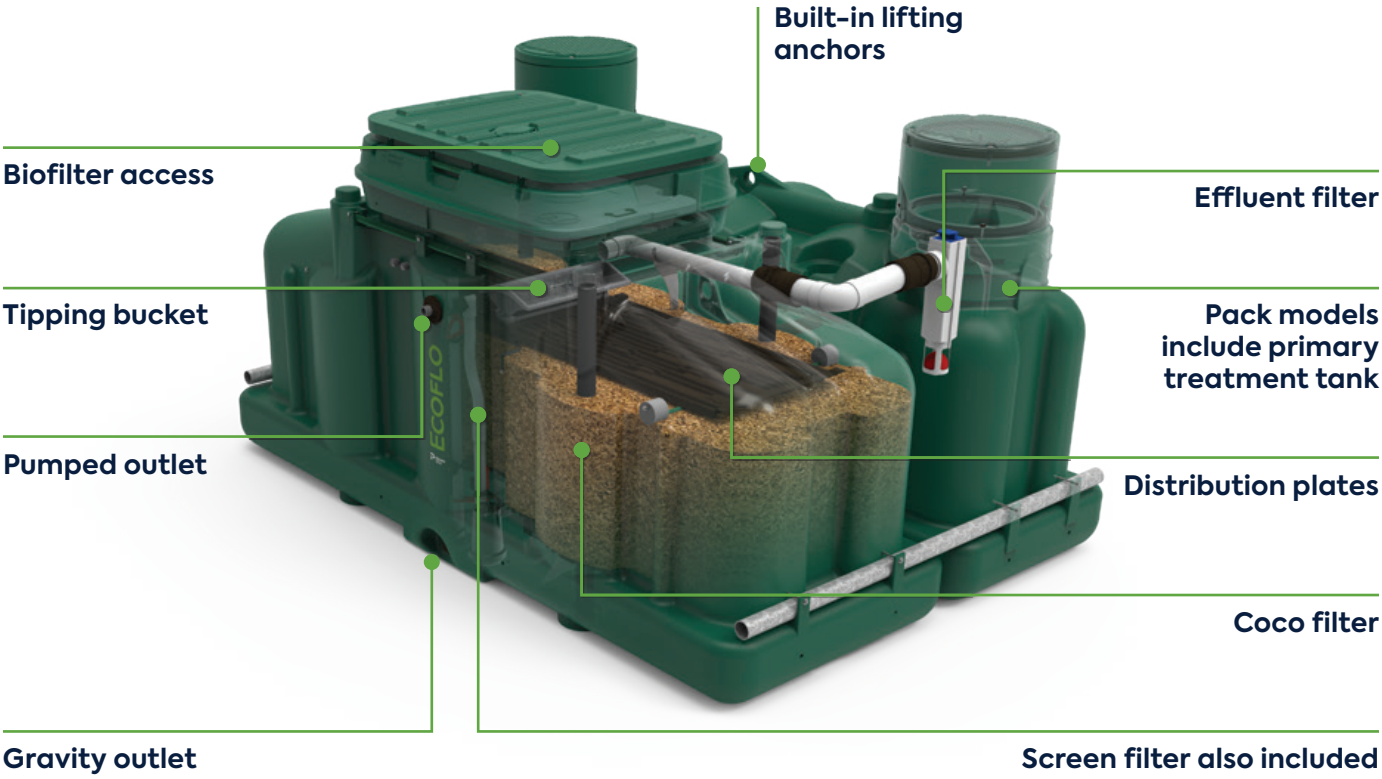
- installation guides
- technical data sheets
- technical drawings
- and more

FULL CUSTOMER SUPPORT

Our team supports you by assisting customers directly.

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 the Ecoflo biofilter, the most eco-responsible septic system available.



THE #1 COMPACT FILTER CHOICE!

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

- 140 depots across North America
- quality-controlled inventory
- reliable order tracking

10-YEAR TOTAL WARRANTY

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

> *As a system designer, installer, maintenance tech, and licensed sewage enforcement officer, I am aware of all the solutions. The Ecoflo biofilter is the way to go. I like it so much, I even included one in the design I installed for my own home in 2021.*
>
> **Brandt Fink Jr.**
> Operations Manager / Head of Operations
> RE Fink & Sons
> York County, PA

OUTPERFORMS STANDARDS

NSF/ANSI standard 40 and 245		
Parameter	**Requirement***	**Ecoflo biofilter effluent†**
TSS	< 25 mg/L	8 mg/L
$CBOD_5$	< 30 mg/L	6 mg/L
Fecal coliforms	No requirement	—

* 30-day average.

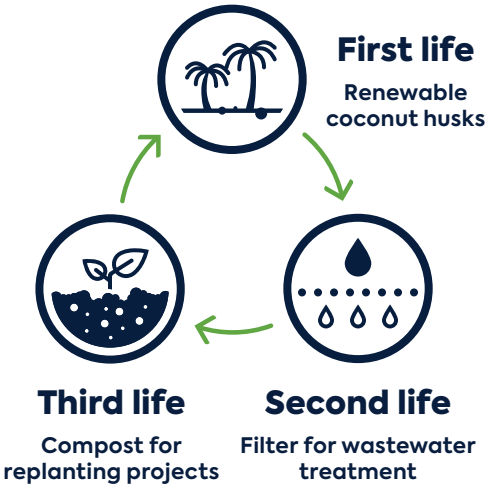
† With 100% coconut husk fragment filtering medium.

ANNUAL MAINTENANCE COSTS

$205 on average in 2023

Ecoflo benefits 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

- 24/7 autonomous operation
- never clogs your client's soil or contaminates their property
- worry-free warranty

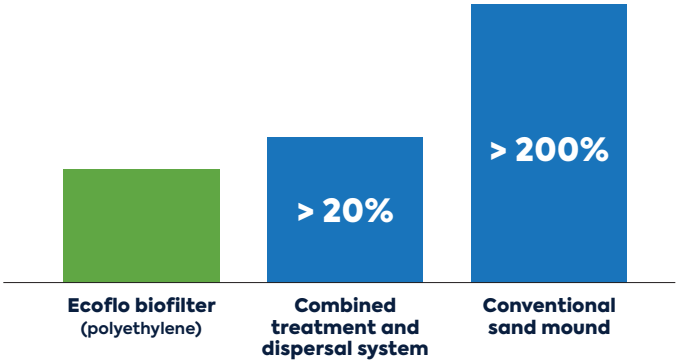
BEST LONG-TERM INVESTMENT

- 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

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 Pennsylvania.
- Systems installed in soil with percolation rate of 60 mpi and rated for four bedrooms.
- Distances between installations and required materials assumed to be 40 miles for filtration sand and stone, 20 miles for backfill.
- Ecoflo biofilter installations include final dispersal to at-grade bed.

A product supported by the manufacturer

HOMEOWNER TOUCHPOINT

After each installation, we invite new owners to an informal session to explain the Ecoflo biofilter's do's and don'ts, how to make sure their septic system is working properly, and to answer their questions.

ANNUAL MAINTENANCE

We offer annual training to our coast-to-coast network of partners to maximize the lifespan of your client's coco filter and to protect their investment in their septic system.

- 15-point inspection
- coco filter aeration to promote healthy bacterial activity
- coco filter scarification to ensure optimal biofiltration

SYSTEM REFURBISHMENT AT A FRACTION OF THE PRICE

Changing the filtering medium is as good as getting a brand new system! All septic systems clog, and while the Ecoflo biofilter's all-natural filtering medium can extend beyond 15 years, it is no exception. But here's the good part:

- no excavation required
- no damage to landscaping
- 100% compostable filtering media
- completed within 2 hours
- renewal of original warranty

ECOFLO®

Polyethylene

Solution for:

- up to 1,350 US gal/d maximum capacity
- 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 2’ of groundwater (pumped models only)
- one additional 6” riser allowed
  (models for 750 US gal/d or less only)

* Pack model

SCAN ME TO SEE HOW TO INSTALL OUR PRODUCTS

POLYETHYLENE PACK MODEL

POLYETHYLENE MODEL 2.8/3.4/4.1

POLYETHYLENE MODEL 5.7/7.3

Refer to pages 12 to 14 for technical information.

ECOFLO®

Concrete

Solution for:

- up to 1,200 US gal/d maximum capacity
- all soil types
- high water tables

Advantages:

- robust tank
- ready to use (select models only)
- install in groundwater up to the inlet pipe (pumped models only)
- one additional 8” riser allowed

SCAN ME TO SEE HOW TO INSTALL OUR PRODUCTS

CONCRETE MODEL 2.8/3.4/4.1

CONCRETE MODEL 6.5

Check the availability of concrete products with your regional representative.

Refer to page 15 for technical information.

ECOFLO®

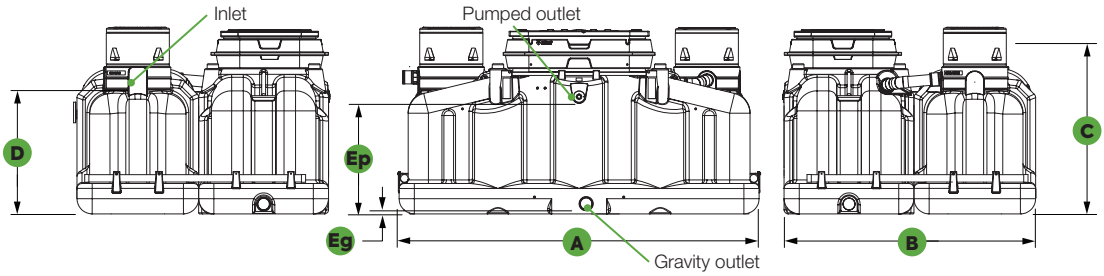
Polyethylene • Pack

	2.8	3.4	4.1
	EC7-500-P-G/P-PACK	EC7-600-P-G/P-PACK	EC7-750-P-G/P-PACK
Hydraulic capacity	500 US gal/d	600 US gal/d	750 US gal/d
Primary tank volume	800 US gal	1,000 US gal	1,250 US gal
Length (A)	10’ 2-3/4”	11’ 7-3/4”	13’ 3-1/2”
Width (B)	8’ 1-3/4”		
Height (C) Includes 12” of risers	5’ 9-3/4”		
Inlet height of primary tank from bottom (D)	4’ 2-1/2”		
Gravity water outlet height (Eg)	1-1/2”		
Pumped water outlet height (Ep)	3’ 9”		
Riser height allowed	6”		
Weight Includes internal components and coco filter	1,675 lb	1,870 lb	2,090 lb
Built-in effective volume available for dosing Pumped discharge models only	160 US gal	180 US gal	200 US gal
Emergency storage above alarm float	545 US gal	665 US gal	760 US gal

Water inlet
Ø 4” nominal

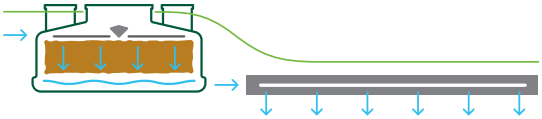
Gravity water outlet
Ø 4” nominal

Pumped water outlet
Ø 1-1/2” or 2” nominal

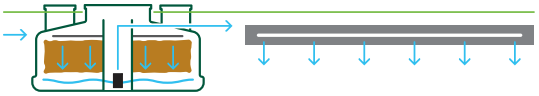


TYPICAL INSTALLATIONS

Gravity discharge to leaching field



Pumped discharge to leaching field



For float adjustments, see page 23.

ECOFLO®

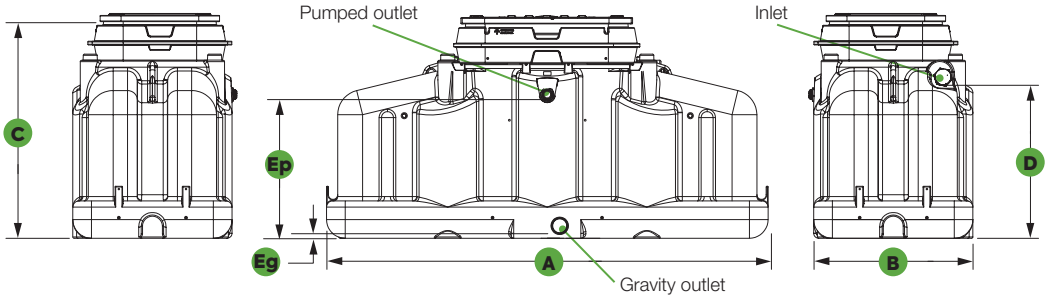
Polyethylene

	2.8	3.4	4.1
	EC7-500-P-G/P	EC7-600-P-G/P	EC7-750-P-G/PDV
Hydraulic capacity	500 US gal/d	600 US gal/d	750 US gal/d
Length (A)	10’ 2-3/4”	11’ 7-3/4”	13’ 3-1/2”
Width (B)	4’ 2-1/2”		
Height (C) Includes 12” of risers	5’ 9-3/4”		
Inlet height from bottom (D)	4’ 1/2”		
Gravity water outlet height (Eg)	1-3/4”		
Pumped water outlet height (Ep)	3’ 8-7/8”		
Riser height allowed	6”		
Weight Includes internal components and coco filter	1,235 lb	1,345 lb	1,455 lb
Built-in effective volume available for dosing Pumped discharge models only	160 US gal	180 US gal	200 US gal
Emergency storage above alarm float	545 US gal	665 US gal	760 US gal

Water inlet
Ø 4” nominal

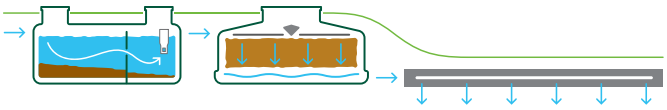
Gravity water outlet
Ø 4” nominal

Pumped water outlet
Ø 1-1/2” or 2” nominal

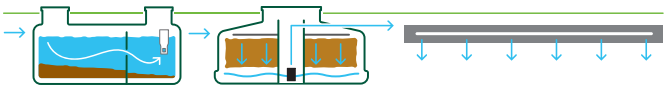


TYPICAL INSTALLATIONS

Gravity discharge to leaching field



Pumped discharge to leaching field



For float adjustments, see page 23.

ECOFLO®

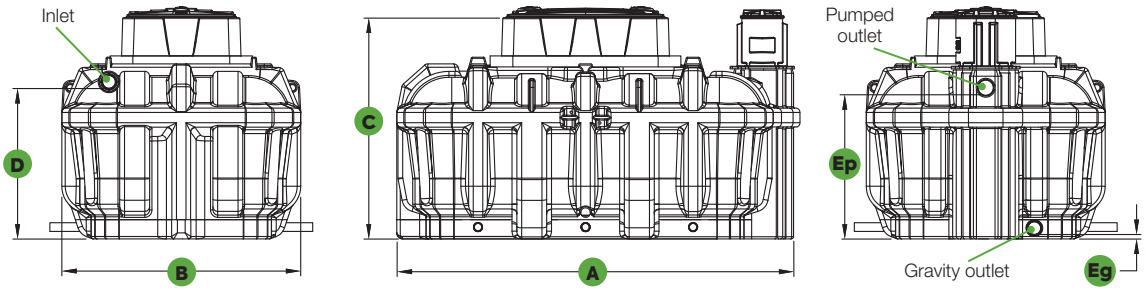
Polyethylene

	5.7	7.3
	EC7-1050-P-G/PDV	**EC7-1350-P-G/PDV**
Hydraulic capacity	1,050 US gal/d	1,350 US gal/d
Length (A)	11’ 3/4”	13’ 5-1/2”
Width (B)	6’ 6-3/4”	6’ 8-3/4”
Height (C)	6’ 3/4”	
Inlet height from bottom (D)	4’ 1-1/2”	
Gravity water outlet height (Eg)	4”	
Pumped water outlet height (Ep)	4’ 3/4”	
Riser height allowed	No additional risers allowed	
Weight Includes internal components and coco filter	2,640 lb	3,120 lb
Built-in effective volume available for dosing Pumped discharge models only	230 US gal	295 US gal
Total emergency storage capacity	1,155 US gal	1,595 US gal

Water inlet
Ø 4” nominal

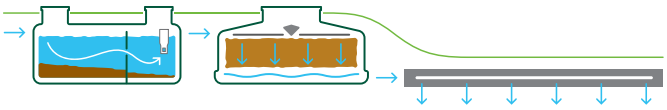
Gravity water outlet
Ø 4” nominal

Pumped water outlet
Ø 1-1/2” or 2” nominal

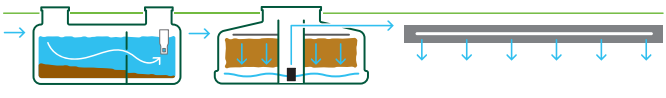


TYPICAL INSTALLATIONS

Gravity discharge to leaching field



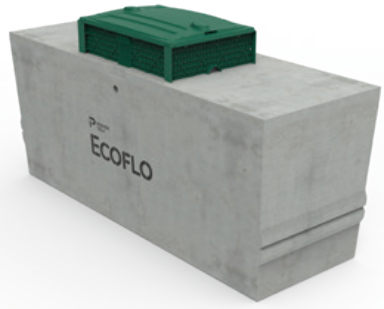
Pumped discharge to leaching field



For float adjustments, see page 23.

ECOFLO®

Concrete



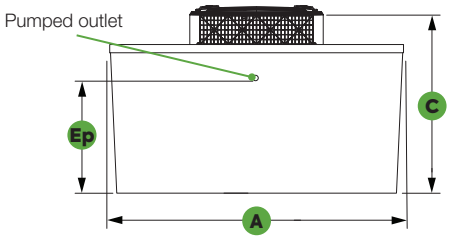
	2.8	3.4	4.1	6.5
	EC7-500-C-G/PDV	EC7-600-C-G/P	EC7-750-C-G/PDV	EC7-1200-C-G/P
Hydraulic capacity	500 US gal/d	600 US gal/d	750 US gal/d	1,200 US gal/d
Length A	10’ 1/8”’	11’ 9-3/4”	12’ 7-1/4”	12’ 7-1/2”
Width B	4’ 2-5/8”	4’ 2-5/8”	4’ 4-3/4”	6’ 10”
Height C	6’ 5-1/4”	5’ 10-7/8”	6’ 8-7/8”	6’ 9-1/4”
Inlet height from bottom D	4’ 6”	3’ 11-5/8”	4’ 10”	4’ 8”
Gravity water outlet height Eg	5”	4-3/4”	5”	6”
Pumped water outlet height Ep	4’ 3-1/2”	3’ 10”	5’	4’ 9-3/4”
Riser height allowed	8”			
Weight Includes tank, upper slab, internal components, and coco filter	9,900 lb	10,000 lb	15,840 lb	19,520 lb
Built-in effective volume available for dosing Pumped discharge models only	150 US gal	34 US gal	200 US gal	220 US gal
Emergency storage above alarm float	500 US gal	145 US gal	750 US gal	1,360 US gal

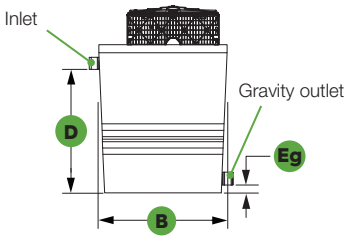
Check product availability with your regional representative.

Water inlet
Ø 4” nominal

Gravity water outlet
Ø 4” nominal

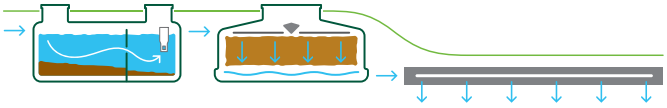
Pumped water outlet
Ø 1-1/2” or 2” nominal



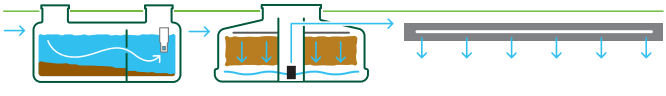


TYPICAL INSTALLATIONS

Gravity discharge to leaching field



Pumped discharge to leaching field

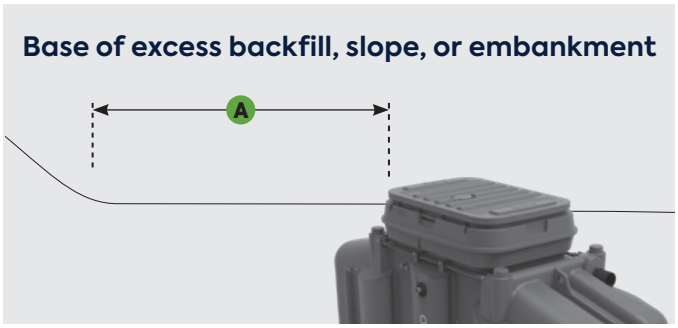


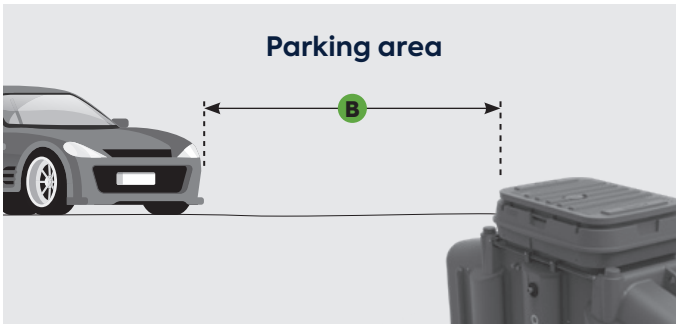
For float adjustments, see page 23.

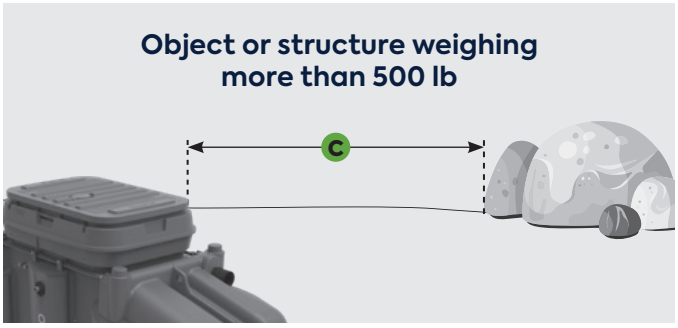
Recommended distances

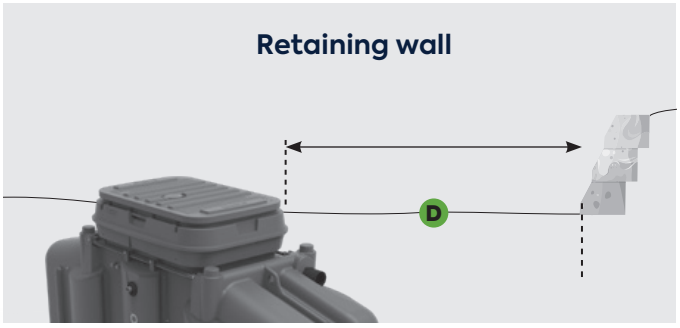
We recommend the following distance guidelines. Failure to abide by these guidelines may void the warranty of the installation.

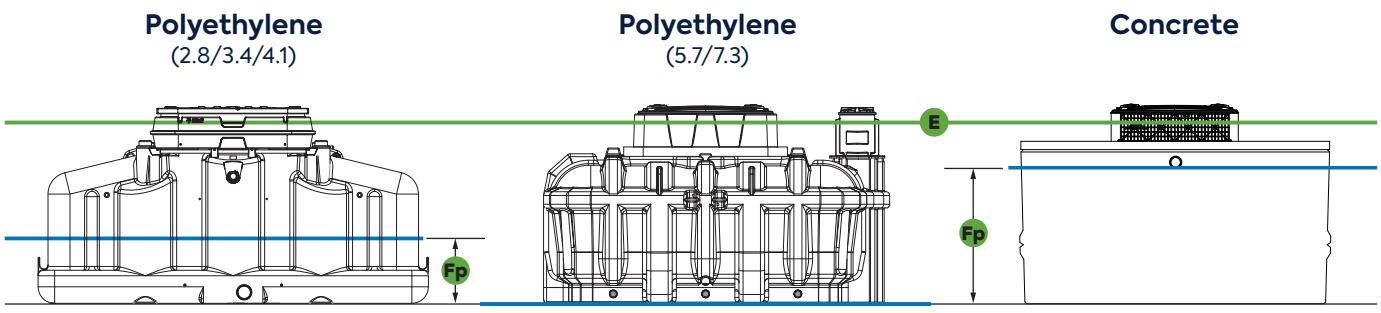
Reference points		Polyethylene		Concrete
		2.8/3.4/4.1	5.7/7.3	
Base of excess backfill, slopes, or embankments vs. biofilter lid	A	13’		10’
Parking area vs. biofilter lid	B	13’		10’
Object or structure weighing more than 500 lb (225 kg) vs. biofilter lid	C	13’		10’
Retaining wall vs. biofilter lid	D	13’		10’
Finished landscaping vs. base of biofilter lid	E	2”		
Seasonal high groundwater table vs. base of gravity-discharge unit		Do not install in groundwater		
Seasonal high groundwater table vs. base of pumped-discharge unit	Fp	2’	Do not install in groundwater	Up to bottom of inlet pipe







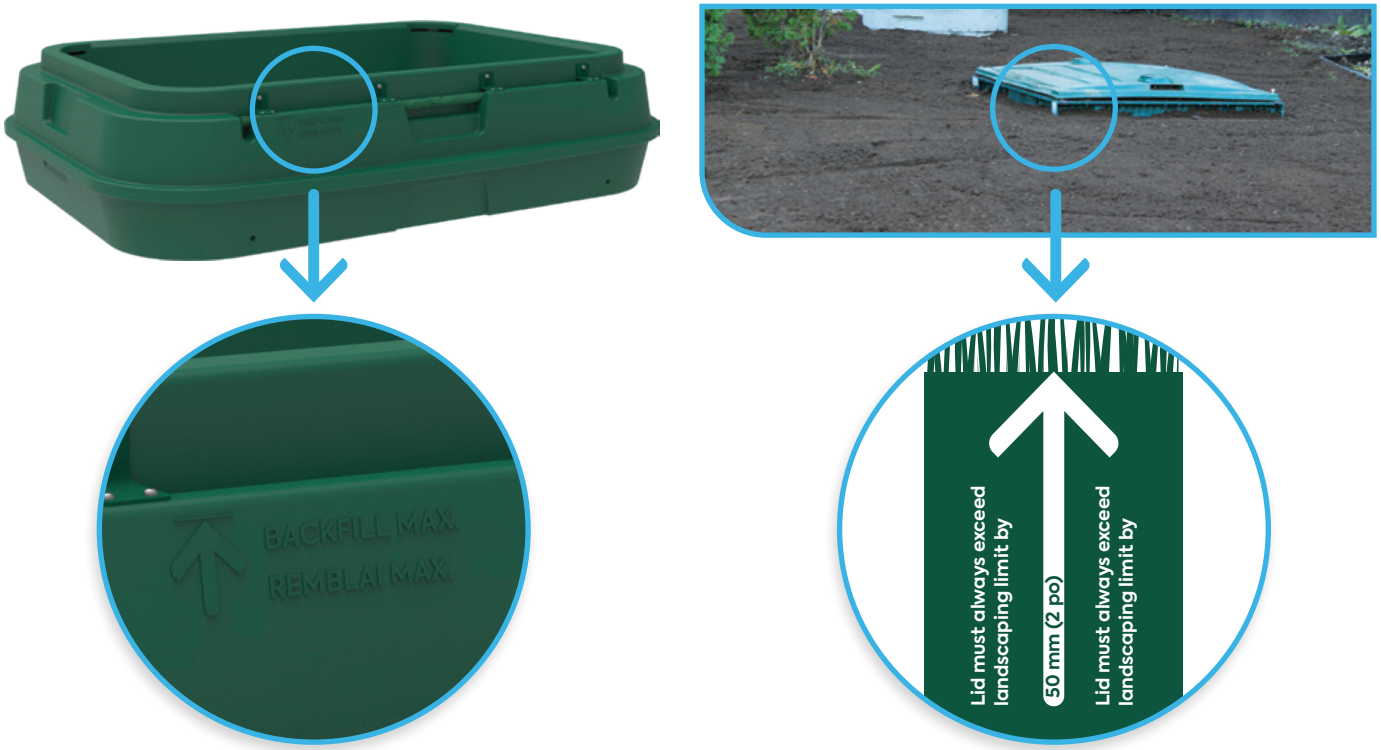




Legend Finished landscaping Seasonnal high groundwater table

Lid clearance

Keep 2'' distance between the landscape level and the top of the lid.



Components and accessories

PUMPING STATIONS

- up to 67 US gal effective dosing volume
- high-strength polyethylene

Refer to page 22 for technical information.

PUMPS

- up to 0.5 hp
- reliable and durable

Refer to page 22 for technical information.

FLOW DIVIDERS

- pressurized or gravity flow
- two to 10 outlets

RISERS

- from 6" to 14"

REWATEC™

Integrated UV disinfection (DiUV)

Our integrated DiUV option reliably kills wastewater pathogens, allowing for safe direct discharge into a watercourse or ditch.

Wi-Fi system
Instant alerts allow us to help your client protect their investment and the environment. A service team will follow-up on any problem.

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 sites of any condition and keeps ditch water out of the treatment unit.

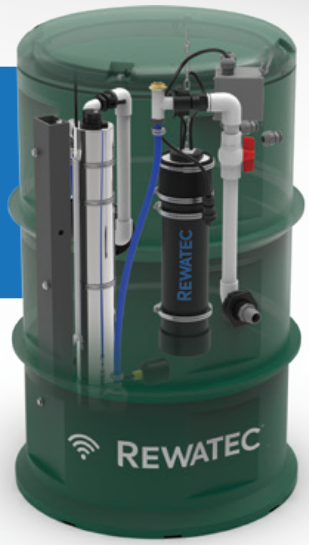
READY TO INSTALL

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. It is also available in a separate tank.

Also available in stand-alone UV disinfection system



UV specifications

ECOFLO			REWATEC	
Hydraulic capacity	Size	Model	Integrated UV disinfection	UV disinfection in separate tank
POLYETHYLENE				
500 US gal/d	2.8	EC7-500-P-G/P	✓	✓
		EC7-500-P-G/P-Pack	✓	✓
600 US gal/d	3.4	EC7-600-P-G/P	✓	✓
		EC7-600-P-G/P-Pack	✓	✓
750 US gal/d	4.1	EC7-750-P-G/P	✓	✓
		EC7-750-P-G/P-Pack	✓	✓
1,050 US gal/d	5.7	EC7-1050-P-G/P	✗	✓
1,350 US gal/d	7.3	EC7-1350-P-G/P	✗	✓
CONCRETE				
500 US gal/d	2.8	EC7-500-C-G/PDV	✓	✓
600 US gal/d	3.4	EC7-600-C-G/P	✓	✓
750 US gal/d	4.1	EC7-750-C-G/PDV	✓	✓
1,200 US gal/d	6.5	EC7-1200-C-G/PDV	✗	✓

Check regional product availability with your regional representative.

TREATMENT RESULTS

Parameter	BNQ* 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†

* Bureau de normalization du Québec certification, similar to NSF certification.

† Before photoreactivation.

RECOMMENDED INFLUENT QUALITY

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

UV pumps

The **maximum length of the pressurized pipe** (flexible pipe) starting from the pump with a pipe measuring 25 mm (1") or 38 mm (1.5") in diameter depends on the pressure head (for instance, the difference in gradient between the base of the pump and the end of the pressurized pipe). The following table indicates the different pressurized pipe lengths allowed.

Height of the pressure head	4.5 m (15')	3 m (10')	1.5 m (5')
Maximum Ø 25 mm (1") pipe length	30 m (100')	30 m (100')	30 m (100')
Maximum Ø 38 mm (1.5") pipe length*	30 m (100')	30 m (100')	30 m (100')

* Does not apply to EC-2.8-C-P model

Parts and labor

Champion 0.4 hp pump
is for UV usage only
6.6 A, 1 phase, 60 Hz, 115 V

REWATEC™

Nitrogen reduction (ECDn)

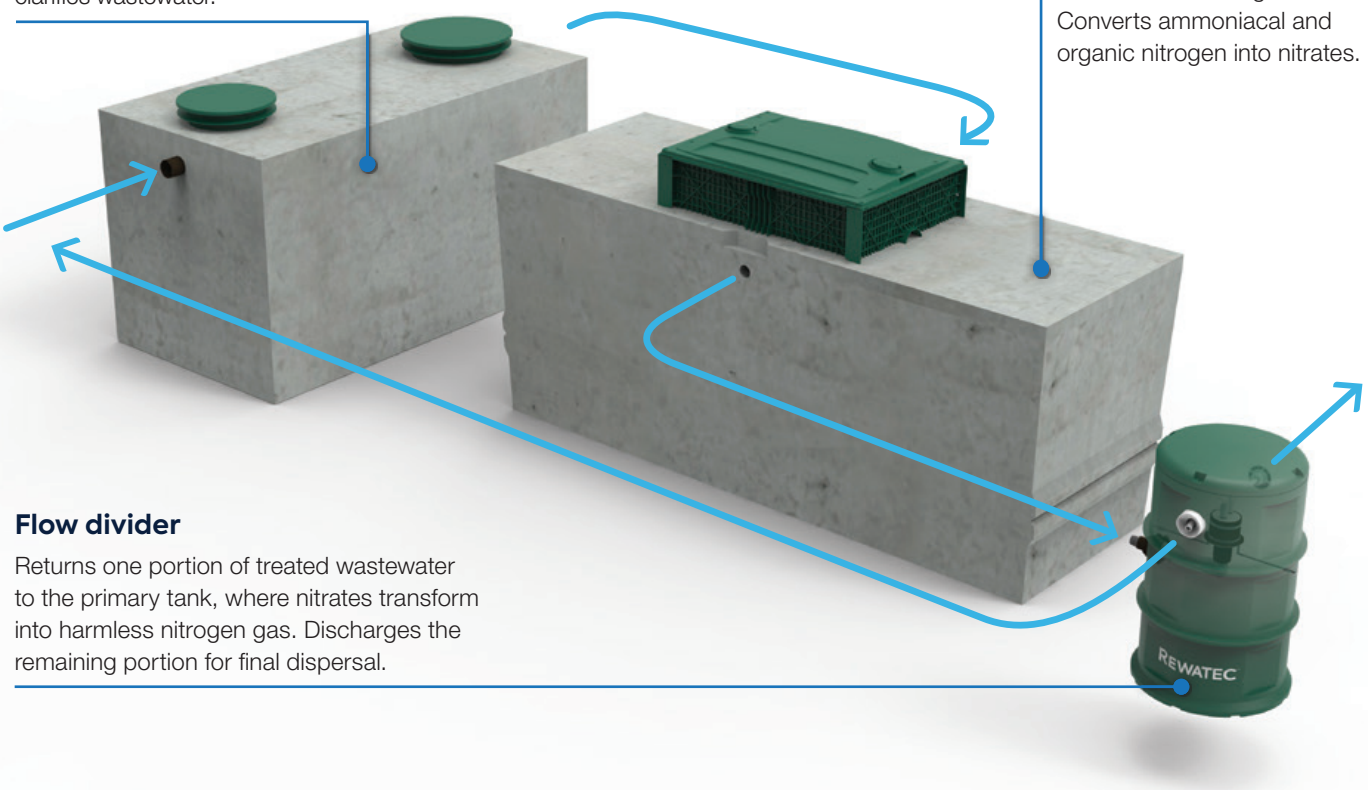
Safely discharge near ecologically sensitive areas with our nitrogen reduction offer that converts ammoniacal nitrogen into harmless nitrogen gas.

Septic tank (with baffle)

Captures solids and clarifies wastewater.

Ecoflo biofilter

Filters wastewater through a coconut husk fragment filter. Converts ammoniacal and organic nitrogen into nitrates.



Flow divider

Returns one portion of treated wastewater to the primary tank, where nitrates transform into harmless nitrogen gas. Discharges the remaining portion for final dispersal.

COMPACT SIZE

Our nitrogen reduction option is ideal for sites with limited installation space.

SOLUTIONS FOR ANY SITE

Nitrogen reduction is available with many polyethylene and concrete Ecoflo biofilter models.

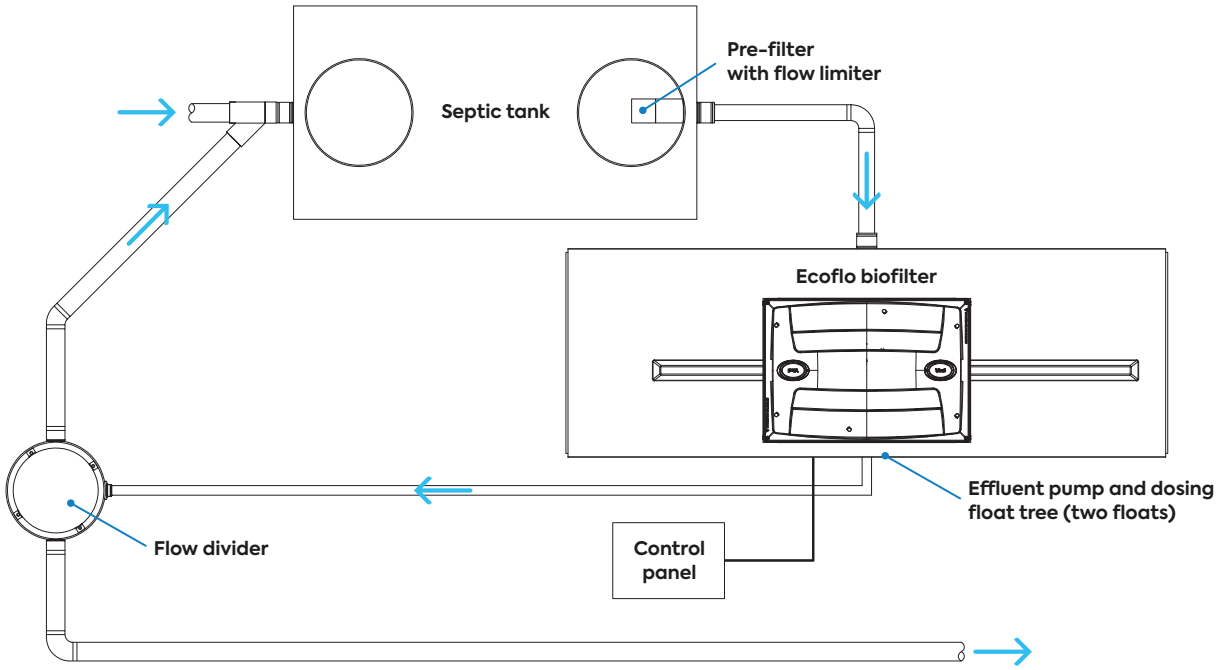
TREATMENT RESULTS

Parameter	NSF effluent standard	ECDn effluent
TSS	< 30 mg/L	2 ± 2 mg/L
$CBOD_5$	< 25 mg/L	4 ± 3 mg/L
Total nitrogen reduction	> 50%	54%
pH	6 to 9	7.1

REWATEC™

Nitrogen reduction (ECDn)

TYPICAL INSTALLATION



Polyethylene

Hydraulic capacity	Model
500 US gal/d	ECDN-500-P
600 US gal/d	ECDN-600-P
	ECDN-600-P-PACK
865 US gal/d	ECDN-865-P
1,100 US gal/d	ECDN-1100-P

Concrete

Hydraulic capacity	Model
600 US gal/d	ECDN-600-C
1,000 US gal/d	ECDN-1000-C

REWATEC™

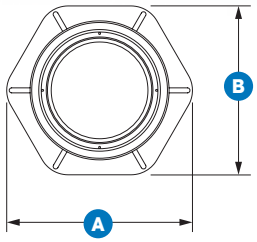
Pumping stations

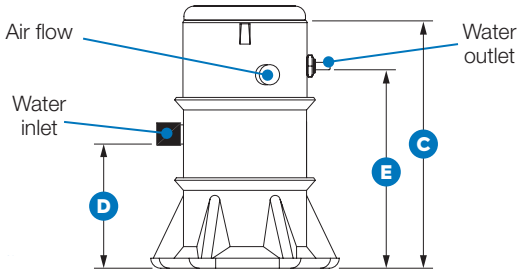
	PSA-240	PSA-240H
Pump	0.4 hp	0.5 hp
Float	On/off pump switch and alarm switch	
Length of base (A)	3’ 1-1/2”	
Width of base (B)	2’ 10”	
Height (C)	4’ 2”	5’ 4”
Inlet height (D)	2’ 1”	3’ 5-3/4”
Outlet height (E)	3’ 4”	
Riser height allowed	2’ 4”	
Weight	110 lb	123 lb
Effective dosing volume	40 US gal	67 US gal
Total volume At water inlet level	63 US gal	106 US gal

Water inlet
Ø 4” nominal

Water outlet
Ø 1-1/2” or 2” nominal

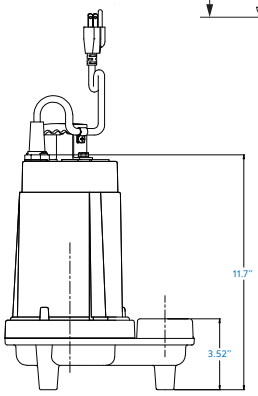
Air flow
Ø 4” nominal

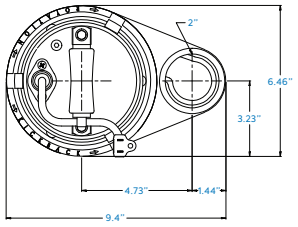




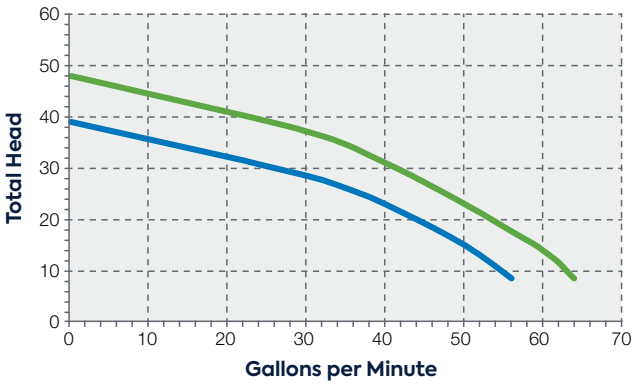
Pumps

Parts and labor





PERFORMANCE CURVE



Legend

- Champion 0.4 hp pump (supplied with all pumping stations) 6.6 A, 1 phase, 60 Hz, 115 V
- Champion 0.5 hp pump (supplied with all pumped Ecoflo biofilter) 8.5 A, 1 phase, 60 Hz, 115 V

ELECTRICAL SPECIFICATION FOR FLOATS

Float switches must be used with pumps that provide integral thermal overload protection.

	Single phase	
	Maximum pump running current	Maximum pump starting current
120 VAC 50/60 Hz	13 A	60 A
230 VAC 50/60 Hz	12 A	60 A

Pumps that exceed the currents in these specifications require a pump controller that will allow the stock floats to be used for signal rather than providing power.

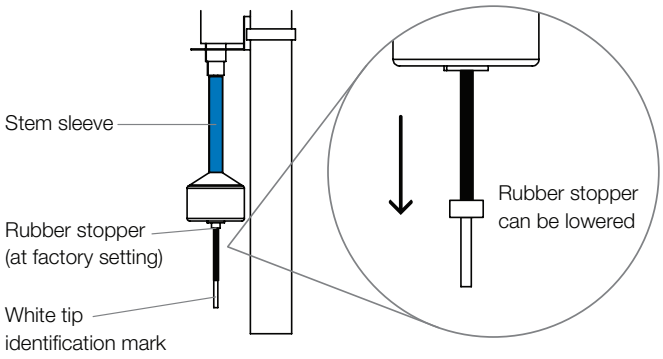
Refer to the technical datasheet for the vault dimensions.

Float adjustments

The dose given by the on/off float depends on the length of the float stem, the length of the stem sleeve, and the position of the rubber stopper.

The factory setting will give the minimum dose. To customize the setting to accommodate local regulations or on-site requirements:

- cut a section of the stem sleeve
- lower the rubber stopper along the stem



POLYETHYLENE

Desired dose volume					Adjustment	Final sleeve length
2.8 – 500	3.4 – 600	4.1 – 750	5.7 – 1050	7.3 – 1350		
21 US gal	24 US gal	26 US gal	20 US gal		None (factory setting)	4-1/2”
22 US gal	30 US gal	35 US gal	30 US gal	40 US gal	Lower rubber stopper **1/4”** along stem	4-1/2”
80 US gal	95 US gal	100 US gal	85 US gal	115 US gal	Lower rubber stopper **2-1/2”** along stem*	4-1/2”
105 US gal	120 US gal	130 US gal	110 US gal	155 US gal	Make sleeve 3-1/2” long and lower rubber stopper **2-1/2**” along stem*	3-1/2”
130 US gal	150 US gal	165 US gal	140 US gal	195 US gal	Make sleeve 2-1/2” long and lower rubber stopper **2-1/2”** along stem*	2-1/2”
160 US gal	180 US gal	200 US gal	175 US gal	235 US gal	Make sleeve 1-1/2” long and lower rubber stopper **2-1/2”** along stem*	1-1/2”
			230 US gal	295 US gal	Remove sleeve and lower rubber stopper **2-1/2”** along stem*	0”

* Or until identification mark.

CONCRETE

Desired dose volume		Adjustment	Final sleeve length
2.8 – 500	4.1 – 750		
20 US gal	20 US gal	None (factory setting)	4-1/2”
70 US gal	95 US gal	Lower rubber stopper **2-1/4”** along stem	4-1/2”
90 US gal	120 US gal	Make sleeve 3-1/2” long and lower rubber stopper **2-1/4”** along stem*	3-1/2”
110 US gal	140 US gal	Make sleeve 2-1/2” long and lower rubber stopper **2-1/4”** along stem*	2-1/2”
125 US gal	170 US gal	Make sleeve 1-1/2” long and lower rubber stopper **2-1/4”** along stem*	1-1/2”
150 US gal	200 US gal	Remove sleeve and lower rubber stopper **2-1/4”** along stem*	0”

Desired dose volume	Adjustment	Final sleeve length
6.5 – 1200		
95 US gal	None (factory setting)	3-1/2”
130 US gal	Make sleeve 2-1/2” long and lower rubber stopper **2-1/2”** along stem*	2-1/2”
165 US gal	Make sleeve 1-1/2” long and lower rubber stopper **2-1/2”** along stem*	1-1/2”
200 US gal	Make sleeve 1/2” long and lower rubber stopper **2-1/2”** along stem*	1/2”
220 US gal	Remove sleeve and lower rubber stopper **2-1/2”** along stem*	0”

* Or until identification mark.

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At Premier Tech, People and Technologies have connected in lasting, transformative ways for the last 100 years, giving life to products and services that have helped to feed, protect, and improve our world.

We aren't slowing down. Premier Tech is 100 years young, and our experts continue to innovate and redefine what is possible through effective, efficient, and sustainable solutions. We are driven by our shared passion, and are committed to spend our next 100 years protecting our resources for the future.

Beyond 100

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