

Guide for professionals



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
- 2,420 team members in North America
- 4,700 team members worldwide
- 24 manufacturing facilities in North America
- 47 factories in 27 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.

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.





MOST COMPLETE WARRANTY IN THE INDUSTRY

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





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.

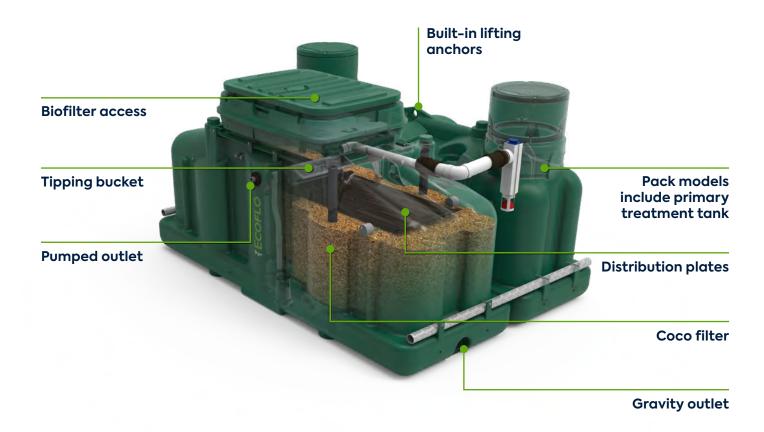


FULL CUSTOMER SUPPORT

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

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 COMPACT FILTER CHOICE!



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

Ecoflo is a can't-mess-it-up system that's super simple to install. All a contractor has to do is dig the hole, level the system, and be able to hook up the inlet and outlet pipes. That's it.

Debbie Mayers

Owner, Tri-State Pump & Septic Supply Franklin, New Jersey



> ECOFLO OUTPERFORMS STANDARDS

(NSF/ANSI standard 40 and 245)

Parameter Requirements'		Ecoflo 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.

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

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

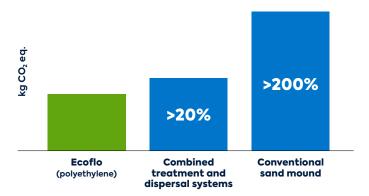
BEST LONG-TERM INVESTMENT

- 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, Ecoflo 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 installations include final dispersal to at-grade bed.



A product supported by the manufacturer

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 coast-to-coast network of partners, annually trained by us to maximize the life of your client's coco filter and 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

FILTER REPLACEMENT

By having the coco filter 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)







ECOFLO®

Polyethylene

Solution for:

- 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 riser of 6" allowed (750 US gal/d models and bellow only)



ECOFLO®

Concrete*

Solution for:

- 1,200 US gal/d maximum capacity
- 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 additional riser of 8" allowed



 $^{^{\}ast}$ Check the availability of the product with your regional supervisor.

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. It is also available in a separate tank.

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.

INTEGRATED UV MODELS

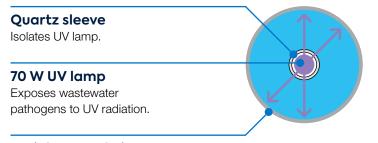
Models	Bedrooms	
2.8	3	
3.4	4	
4.1	5	

[†] Before photoreactivation.

UV disinfection (DiUV)

CLASSIC UV DISINFECTION

INTEGRATED OR SEPARATE TANK



RECOMMENDED INFLUENT QUALITY

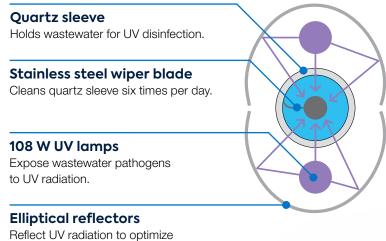
Parameter	Level
Iron	< 0.3 ppm (0.3 mg/L)
Manganese	< 0.05 ppm (0.05 mg/L)
Water hardness	< 7 gpg (120 mg/L)

Stainless steel pipe

Holds wastewater for UV disinfection.

SELF-CLEANING UV DISINFECTION

SEPARATE TANK ONLY

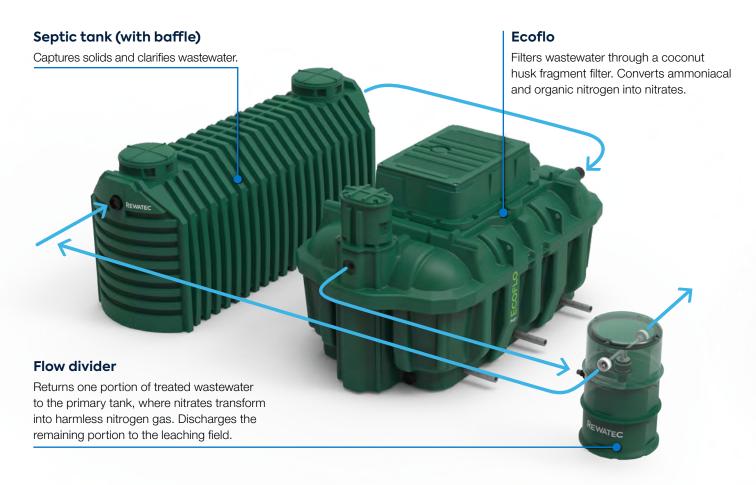




Reflect UV radiation to optimize the treatment process.

Nitrogen reduction (ECDn)

Our nitrogen reduction option converts ammoniacal nitrogen into nitrogen gas, so you can safely discharge wastewater near ecologically sensitive areas.



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.

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%
рН	6 to 9	7.1

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.

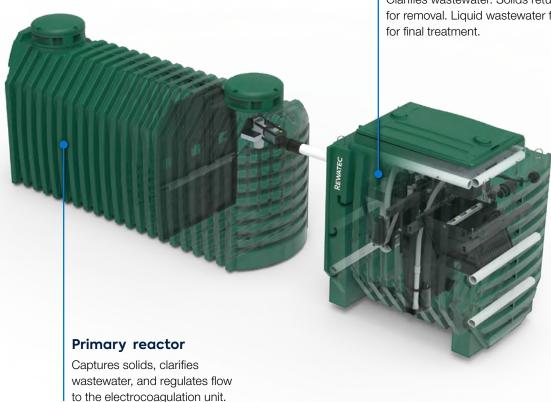
Electrocoagulation unit

Reaction zone

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

Separation zone

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



SURFACE DISCHARGE NEAR LAKES

Phosphorus removal preserves water quality in sensitive environments.

Components and accessories

SEPTIC TANKS

- up to 1,760 US gal total nominal capacity
- high-strength polyethylene

Refer to page 25 for technical information.



PUMPING STATIONS

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

Refer to page 26 for technical information.



PUMPS

- up to 0.5 hp
- reliable and durable

Refer to page 26 for technical information.



FLOW DIVIDERS

- pressurized or gravity flow
- two to 10 outlets



RISERS

• from 6" to 14"





Product line

REWATEC
SPECIALIZED TREATMENT OPTIONS

				Ę Š	tion	
	ECOF	LO	Integrated UV	UV disinfection (Di in separate tank	Nitrogen reduction (ECDn)	
Hydraulic Capacity	Size	Model	cegrat	' disin separ	troge CDn)	
POLYETHYLENE			를 를	3.≘	žÜ	
500 US gal/d	2.8	EC7-500-P-G/P	~	~		
300 03 gai/d	2.0	EC7-500-P-G/P-PACK	~	~		
600 110 aal/d	3.4	EC7-600-P-G/P	~	~		
600 US gal/d	3.4	EC7-600-P-G/P-PACK	~	~	See	
750 LIC col/d	4.1	EC7-750-P-G/P	~	~	page 24	
750 US gal/d	4.1	EC7-750-P-G/P-PACK	~	~		
1,050 US gal/d	5.7	EC7-1050-P-G/P	X	~		
1,350 US gal/d	7.3	EC7-1350-P-G/P	×	~		
CONCRETE						_
500 US gal/d	2.8	EC7-500-C-GDV/PDV	~	~		
750 US gal/d	4.1	EC7-750-C-GDV/PDV	~ *	~	See page 24	
1,200 US gal/d	6.5	EC7-1200-C-G/P-H2+3	×	~		

^{*} Check the availability of the product with your regional supervisor.

NEED HELP?

For help choosing the right Ecoflo model, specialized 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.

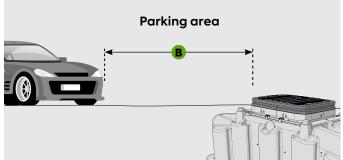
+1 800 632-6356

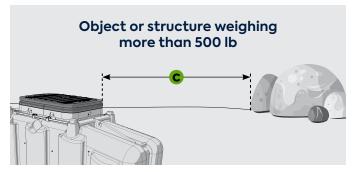
Recommended distances

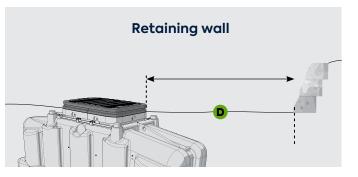
We recommend the following distances guidelines. Failure to abide by these guidelines may void the warranty of the installation.

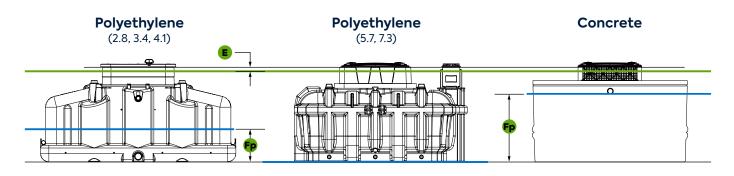
Reference Points	Polyethylene		Concrete	
Reference Points	2.8, 3.4, 4.1	5.7, 7.3	Concrete	
Base of excess backfill, slopes, or embankments vs. biofilter lid	13'		10'	
Parking area vs. biofilter lid	1:	3'	10'	
Object or structure weighing more than 500 lb (225 kg) vs. biofilter lid	13'		10'	
Retaining wall vs. biofilter lid	13'		10'	
Finished landscaping vs. base of biofilter lid	2"			
Seasonal high groundwater table (SHGT) vs. base of gravity-discharge unit	Do not install in groundwater		er	
Seasonal high groundwater table (SHGT) vs. base of pumped-discharge unit	2'	Do not install in groundwater	Up to bottom of inlet pipe	











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	10' 3"	11' 8"	13' 3-1/2"
Width		8' 2"	
Height Includes 12" of risers		5' 9-1/2"	
Inlet height of primary tank from bottom	4' 2-1/2"		
Gravity water outlet height 😝		1-3/4"	
Pumped water outlet height 😥		3' 8-7/8	
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

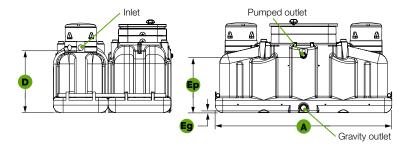
Water inlet

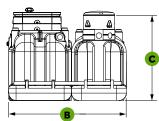
Ø 4" nominal

Gravity water outlet

Ø 4" nominal

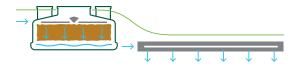
Pumped water outlet Ø 1-1/2" or 2" nominal

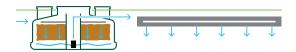




TYPICAL INSTALLATIONS

Gravity discharge to leaching field





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	10' 3"	11' 8"	13' 3-1/2"	
Width		4' 2-3/8"		
Height Includes 12" of risers		5' 9-1/2"		
Inlet height from bottom D		4' 1/2"		
Gravity water outlet height		1-3/4"		
Pumped water outlet height 😜		3' 8-7/8"		
Riser height allowed		6"		
Weight Includes internal components and coco filter	1,235 lb	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		200 US gal	
Emergency storage above alarm float	545 US ga	665 US gal	760 US gal	

Water inlet

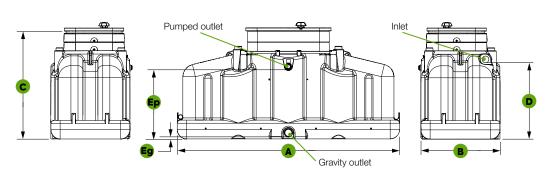
Ø 4" nominal

Gravity water outlet

Ø 4" nominal

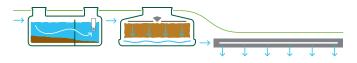
Pumped water outlet

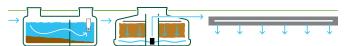
Ø 1-1/2" or 2" nominal



TYPICAL INSTALLATIONS

Gravity discharge to leaching field





Polyethylene



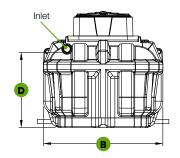
	5.7	7.3	
	EC7-1050-P-G/PDV	EC7-1350-P-G/PDV	
Hydraulic capacity	1,050 US gal/d	1,350 US gal/d	
Length	11' 1"	13' 7"	
Width	6' 7" (2,000 mm)	6' 9"	
Height C	6' 1	1/2"	
Inlet height from bottom	4' 1-	1/2"	
Gravity water outlet height 😝	3"		
Pumped water outlet height 😝	4' 1"		
Riser height allowed	No additional	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	

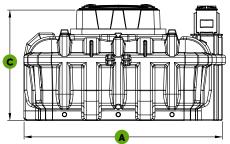
Water inlet

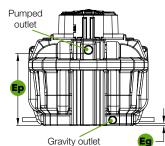
Ø 4" nominal

Gravity water outlet \emptyset 4" nominal

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

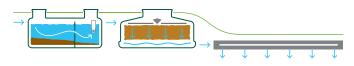


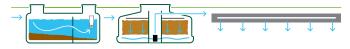




TYPICAL INSTALLATIONS

Gravity discharge to leaching field





Concrete



	2.8	4.1	6.5
	EC7-500-C-GDV/PDV	EC7-750-C-GDV/PDV	EC7-1200-C-G/P-H2+3
Hydraulic capacity	500 US gal/d	750 US gal/d	1,200 US gal/d
Length	10'	12' 7"	12' 7"
Width	4' 2"	4' 5"	6' 10"
Height C	6' 7"	6' 9"	6' 11"
Inlet height from bottom	4' 6"	4' 10"	4' 11"
Gravity water outlet height 😝	4"	5"	6"
Pumped water outlet height 😝	4' 3-1/2"	5'	4' 11"
Riser height allowed		8"	
Weight Includes tank, upper slab, internal components, and coco filter	9,900 lb	15,840 lb	19,520 lb
Built-in effective volume available for dosing Pumped discharge models only	150 US gal	200 US gal	220 US gal
Emergency storage above alarm float	500 US gal	750 US gal	1,360 US gal

Water inlet

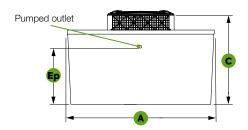
Ø 4" nominal

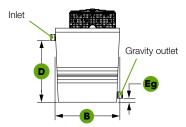
Gravity water outlet

Ø 4" nominal

Pumped water outlet

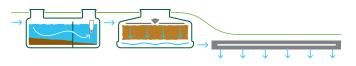
Ø 1-1/2" or 2" nominal

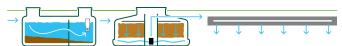




TYPICAL INSTALLATIONS

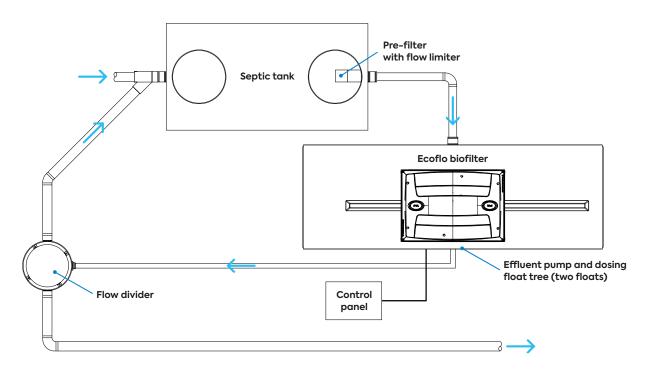
Gravity discharge to leaching field





Nitrogen reduction (ECDn)

TYPICAL INSTALLATION



ECOFLO COMPATIBILITY

Polyethylene

Hydraulic Capacity	Size	Model	
500 US gal/d	3.4	ECDN-500-P	
600 HC col/d	4.1	ECDN-600-P	
600 US gal/d	4.1	ECDN-600-P-PACK	
865 US gal/d	5.7	ECDN-865-P	
1,100 US gal/d	7.3	ECDN-1100-P	

Concrete

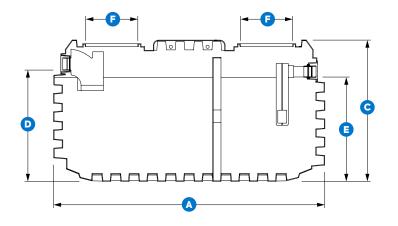
Hydraulic Capacity	Size	Model
600 US gal/d	4.1	ECDN-600-C
1,000 US gal/d	6.5	ECDN-1000-C

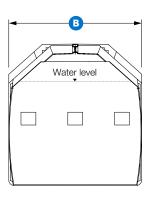
Septic and holding tanks



	Septic Tanks with Effluent Filter					Holding Tanks*	
	PST-280	PST-340	PST-390	PST-420	PST-500	PST-660	PHT-660
Total nominal capacity	740 US gal	900 US gal	1,030 US gal	1,140 US gal	1,270 US gal	1,760 US gal	1,760 US gal
Liquid capacity	600 US gal	800 US gal	880 US gal	950 US gal	1,080 US gal	1,530 US gal	1,550 US gal
Length A	8' 2"	9' 11-1/2"	10' 10-1/2"	12' 4-3/4"	9' 7"	13'	13'
Width B	4' 1-1/4"			4' 4-3/8"		4' 4-3/8"	
Height G	4' 4-3/8"			5' 7-3/4"		6' 2-3/8"	
Inlet height	3' 5-1/2"				4' 7-	-1/8"	4' 7-1/8"
Outlet height	3' 2-1/2"				4'	4"	
Openings diameter	1' 6-1/2"						
Weight	353 lb	397 lb	419 lb	529 lb	584 lb	717 lb	772 lb
Certification	BNQ/CSA CS			CSA	BNQ/CSA		CSA

 $^{^{\}star}$ 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	On/off pump switch and alarm switch		
Length of base	3' 1-	3' 1-1/2"		
Width of base	2' -	10"		
Height G	4' 2"	5' 4"		
Inlet height D	2' 1"	3' 5-3/4"		
Outlet height	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

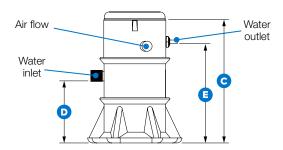
Ø 4" nominal

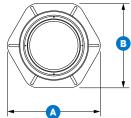
Water outlet

Ø 1-1/2" or 2" nominal

Air flow

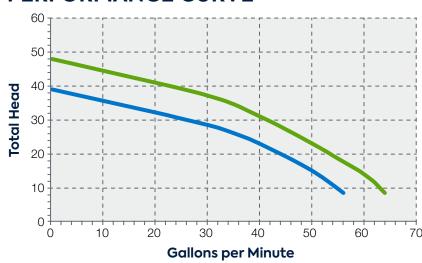
Ø 4" nominal





Pumps

PERFORMANCE CURVE





Legend

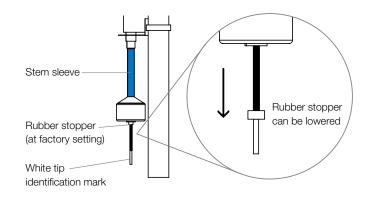
- Champion 0.5 hp pump (with Ecoflo)8.5 A, 1 phase, 60 Hz, 115 V
- Champion 0.4 hp pump (with integrated DiUV)6.6 A, 1 phase, 60 Hz, 115 V

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				Final		
2.8 – 500	3.4 – 600	4.1 – 750	5.7 – 1050	7.3 – 1350	Adjustment	Sleeve Length
21 US gal	24 US gal	26 US gal	20 U	S 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	Cut 1" off sleeve 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	Cut 2" off sleeve 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	Cut 3" off sleeve 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
2.8 – 500	4.1 – 750		Length
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	Cut 1" off sleeve and lower rubber stopper 2-1/4" along stem*	3-1/2"
110 US gal	140 US gal	Cut 2" off sleeve and lower rubber stopper 2-1/4" along stem*	2-1/2"
125 US gal	170 US gal	Cut 3" off sleeve 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 6.5 – 1200	Adjustment	Final Sleeve Length
95 US gal	None (factory setting)	3-1/2"
130 US gal	Cut 1" off sleeve and lower rubber stopper 2-1/2" along stem*	2-1/2"
165 US gal	Cut 2" off sleeve and lower rubber stopper 2-1/2" along stem*	1-1/2"
200 US gal	Cut 3" off sleeve 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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