

RAINWATER HARVESTING & STORMWATER MANAGEMENT

PRODUCT CATALOGUE

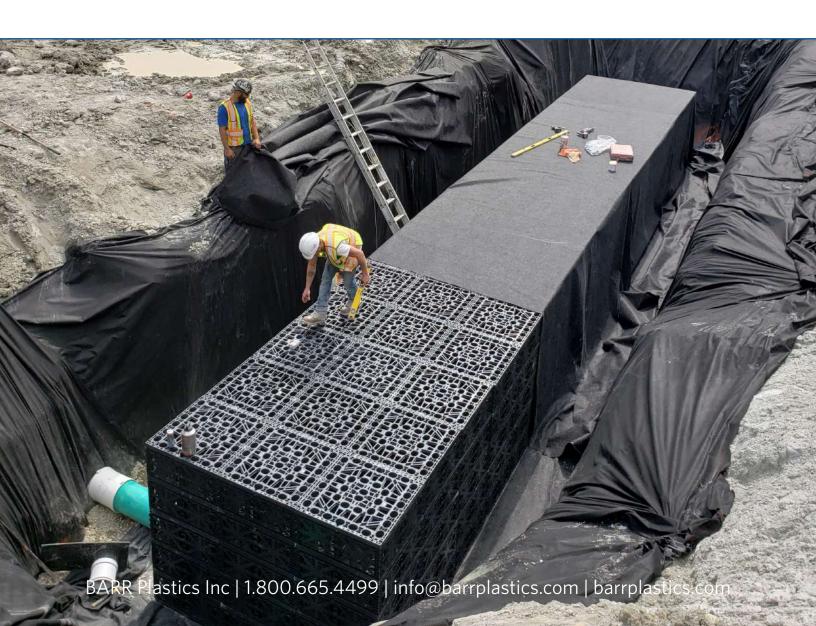
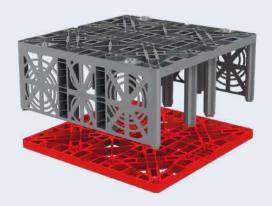


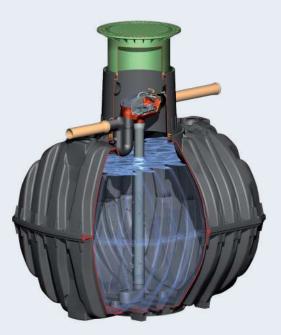




TABLE OF CONTENTS

Why Use Rainwater?	3-5
Aboveground Systems	
Large Aboveground Rainwater Tanks	6
Rainwater H ₂ OG Modular Tanks	7
Narrow Profile Storage Tanks	8
GRAF Top Tanks	9
GRAF Herkules Tank	10
Belowground Systems	
Carat S Tank	11-13
GRAF Tank Dome Lids & Risers	14
Internal Filters for GRAF Carat S	15-18
External Filters for GRAF Carat S	19-21
Fibreglass Tanks	22
Stormwater Management	
The StormStop Tank System	23-24
Herkules Infiltration & Detention Tank	25
GRAF EcoBloc System	26-29
Rainwater Harvesting Filters	
Leaf Eaters	30-33
GRAF Rain Harvesting Filters	34-35
Rainwater Harvesting Diverters	
Downspout Diverters	36
In-Ground Diverters	37
Painwater Harvestina Accessories	38-39







Why Use Rainwater?

Did you know?

Water or ice covers about 80% of the world, yet only 1% of the world's water is suitable for human needs. Roughly 97% is salt water in the ocean (which we can't consume) and 2% is ice. That doesn't leave a lot to use for the 7 billion or so people living here on Earth.

We Use Water Constantly!

An average garden sprinkler

Will whip out about 1,000 litres of water per hour: 1,000 litres. If you consider all possible outdoor property water uses around a home, it adds up to about 94,500 litres per year.

An average household tap

Flows at a rate of 20 litres per minute, depending on how far it is turned on. How many minutes do you leave the tap on in any given day? Per year?

Flushing the toilet

Uses about 10 litres per flush per single cistern toilet. That's about 54,000 litres per year in an average household.

Taking a bath or shower

Uses about 100 litres per bath and 200 litres per 10 minute shower. There's another 54,000 litres per year, down the drain!

A dishwasher load

Uses about 50 litres. Tally up all typical kitchen water use and you're looking at using about 27,000 litres per year



Half the Water We Use Ends Up As Waste Water!

A typical household uses over 650 litres of water every day. This equates to around 240,000 litres each year! Up to half the water supplied to household ends up as waste water.

By reducing the amount of water you use, you reduce running costs and spend less on water, energy and detergent bills, and help sustain our water resources. That's where rainwater harvesting comes in.



Why Use Rainwater?

Use Inside & Outside Your Home

There is no higher quality source of water available to us than rainwater. Unlike water captured in dams which requires an extensive treatment process to ensure a quality fit for human consumption, rainwater that is collected on roofs and stored appropriately represents a sustainable source of water ideal for use inside and outside the home.

By using rainwater for toilet flushing, laundry and garden use alone, it can reduce mains water requirements of a typical household by 70%. If hot water systems are supplied with rain water, this reduction can be as high as 85%! Just check out the facts below:

Collecting Rainwater May Be Necessary

- When mains or city supplied water is not available to your property
- To collect water to help fight bush fires and protect the home
- To ensure a backup for other water supplies
- To save money on water bills or qualify for rebates
- To store water at an economical cost
- As the cost of water is already high and it is set to rise substantially in the near future as councils and water boards move to pass on the true cost of water to the community
- To meet new regulations that may be coming in the near future
- In some suburbs, some new housing developments are now requiring each home to have a rainwater tank of a certain capacity installed.
- For health reasons -you see the value in pure fresh natural rainwater
- You do not want chemicals added to your drinking water
- You wish to drink pleasant tasting water
- Your water supply is salty or hard, has odours or contains heavy metals
- You consider rainwater better for your family's health and you want to take control of what your family drinks
- For environmental reasons
- To prevent the impact of storm water run-off on the local environment
- As you understand that rainwater is good for the garden
- To become as independent as possible, for either philosophic or environmental reasons, or both.





Why Use Rainwater?

Collecting Rainwater Just Makes Sense

Significant economic, social and environmental benefits can be achieved by using rainwater harvesting systems to supply water for some, or possibly all of our requirements and reduce your dependence on city water. Our water supplies are becoming taxed and water restrictions are in place in many communities to reduce our overall water usage and protect our supplies.

There is no better quality water available naturally than rainwater. Some say there are health benefits to using rainwater which is not treated with chemicals like our mains water is. Rainwater falls for free, so once you've installed a rain harvesting system, you use less city water and can reduce your water bills. Governments and water boards are installing new meters and increasing water prices as they seek to recover the true costs of providing water to the community, as the cost to supply city water services is becoming more expensive each year. The construction of dams, pipes and treatment plants is huge and, ultimately as tax and rate-payers, we foot this cost.

Some governments have introduced legislation mandating new standards of energy and water efficiency ratings that must be incorporated into new dwellings. BARR works with leading manufacturers, who, in conjunction with regulatory authorities, have developed a range of patented products that can be used in conjunction with roofing, gutters, downpipes and rainwater tanks to provide complete rainwater solutions. Rainwater harvesting also reduces the damage to our creeks, water habitats and organisms caused by stormwater runoff. Check out BARR's stormwater management section for specific quality solutions in that area.





Large Aboveground Rain Tanks

Green and black colours reduce algae growth by blocking out the sun. Made with high quality polyethylene resins that meet FDA specifications, these tanks offer safe storage of water and are great for collecting the rain. Additional fittings can be added by BARR before shipping or on-site by qualified personnel. These tanks are suitable for potable water storage, so drink the rain!



USG	IG	LTR	Part #	Diameter (in)	Height (in)	Lid/Fill Opening	Bottom/Top Fittings (in)	Weight (lbs)
165	137	624	43866 G	31	56	16	2/1.5	50
165	137	624	43864 B	31	56	16	2/1.5	50
305	254	1155	40863 G	46	50	16	2/1.5	65
305	254	1155	40702 B	46	50	16	2/1.5	65
500	416	1893	43105 G	48	73	16	2/1.5	98
500	416	1893	43101 B	48	73	16	2/1.5	98
550	458	2082	40864 G	67	44	16	2/1.5	95
550	458	2082	40703 B	67	44	16	2/1.5	95
1000	830	3785	40892 B	64	79	16	2/1.5	159
1000	830	3785	41686 G	64	79	16	2/1.5	159
1100	916	4164	40865 G	87	51	16	2/1.5	185
1100	916	4164	40704 B	87	51	16	2/1.5	185
1350	1124	5110	40858 G	71	87	16	2/1.5	205
1350	1124	5110	40860 B	71	87	16	2/1.5	205
1550	1291	5867	40866 G	87	67	16	2/1.5	215
1550	1291	5867	40627 B	87	67	16	2/1.5	215
2500	2082	9464	40867 G	95	91	16	2/1.5	340
2500	2082	9464	43812 B	95	91	16	2/1.5	340
3000	2498	11356	40868 G	95	107	16	2/1.5	405
3000	2498	11356	40635 B	95	107	16	2/1.5	405
5000	4150	18925	40641 B	102	152	16	2/1.5	844
5000	4150	18925	40870 G	102	152	16	2/1.5	880
10000	8300	37850	41338 B	141	160	16	2/1.5	1754
10000	8300	37850	41379 G	141	160	16	2	1804



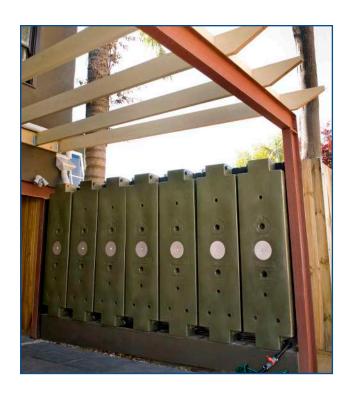
Rainwater H₂OG Modular Tanks

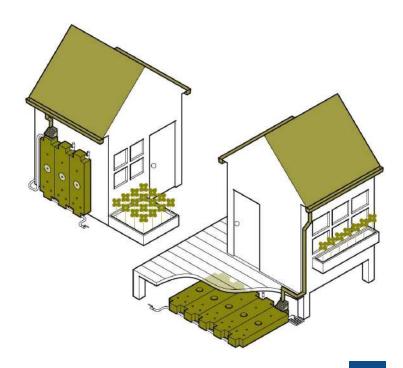
Ideal for use in tight spaces like under the deck, crawl space, against the house or building wall or even inside walls. The HOG narrow profile tanks are a favourite among architects and other designers who wish to incorporate rainwater collection into their designs and capitalize on the heat exchange benefits that they can provide. When placed inside interior walls, full tanks can act as a heat sink, absorbing and releasing heat and saving energy. Each tank comes with a 3" cutout area on either end and four 1" mold-in brass fittings (FNPT) 2 ea. on top & bottom.



Made from food grade, 100% recyclable FDA-approved polyethylene; tanks are suitable for potable water.

USG	IG	LTR	Part #	L (in)	W (in)	H (in)	Lid/Fill Opening (in)	Fitting (in)	Weight (lbs)
50	42	190	HOG	20	9 1/2	71	3	1	40







Narrow Profile Storage Tanks

Aligned to the side of your house, our narrow profile tanks are perfect for those wanting to collect a ton of rain in a smaller amount of space. Their opaque forest green colour blocks out sunlight, thereby preventing algae growth within the tank. Tanks are also available in white for indoor use. Available in 3 different sizes - all are 29" wide and designed to fit through a standard doorway and also fit nicely against walls and into corners while still providing a stable self-supporting base.

Tanks are freestanding and self-supporting. No need for additional framing except for part #40480. Just connect to your downspout. Additional tanks can be interconnected to increase storage volume. Tanks are made from NSA and FDA approved PE resins, certified for potable water storage.







USG	IG	LTR	Part #	L (in)	W (in)	H (in)	Lid/Fill Opening (in)	Fitting (in)	Weight (in)
250	208	946	42337	62	29	40	16	1-1/4	103
250	208	946	SP0520-UT-G (Green)	62	29	48	16	1-1/4	113
300	250	1136	41869	62	29	48	16	1-1/4	138
300	250	1136	SP0300-UT-G (Green)	62	29	48	16	1-1/4	144
375	312	1420	40480	62	30	61	16	1-1/4	N/A
400	333	1514	41247	63	30	68	16	1-1/4	183
400	333	1514	SP0400-UT	62	29	65	16	1-1/4	183
500	416	1893	43616	31	74	70	16	1-1/4	N/A



Graf Top Tanks

The Top Tank is the economical, best value choice for aboveground water storage. The Top Tank is easy to set up in your garden area or cellar. The tank comes in two identical half shells that fit through doorways and then securely together on-site. This modular system has a very low cost per unit for shipping. A high volume of storage takes up little space on a truck or container, saving your money even further. Secure seals allow for pipe penetrations with multiple fitting locations possible, and once assembled, the tank can be linked to other tanks at any time to increase storage capacity.



USG	IG	LTR	Part #	Description	Diameter (in)	Height (in)	Fittings (in)	Weight (lbs)
340	280	1290	323001	GRAF Top Tank	46	61	Variable	66







Graf Herkules Tanks

Install above or belowground. The Herkules tank has an incomparable price-performance ratio for overground installation in the garden or cellar or for underground fitting (with support pipe). Due to its strong design and the fibreglass-reinforced material, the tank can be safely installed in areas of high groundwater provided the appropriate installation instructions are strictly followed. Connect to other. The Herkules tank comes in two pieces for easy, cost-efficient transport and storage. Pieces fit through doorways and snap together for easy assembly. Connect multiple tanks for greater storage capacity. Height is 63" and capacity is 421 US Gallons. This tank can also be used for infiltration, and can be ordered with perforation. See the table below for part numbers.

USG	IG	LTR	Part #	Description	Diameter (in)	Height (in)	Fittings (in)	Weight (lbs)
421	350	1590	320001	Herkules Tank	58	61	Variable	132
423	352	1600	200201	Herkules Infiltration Tank	53	63	Variable	132











Carat S Belowground Tank

The Carat S is a unique plastic tank line that is manufactured to consistent, tight tolerances resulting in a product that is of the highest quality, strength, reliability and versatility. Unlike other below ground plastic tank lines, the Carat tank wall thickness is equal all around and is made from Duralen®, a high-quality food grade polyethylene material that is extremely rigid and impact resistant, therefore ideally suited for producing underground tanks. Carat S Tanks carry a 15 year manufacturers warranty against defect and Duralen® can be easily recycled which reduces waste and its impact on the environment. The Carat S Tank Line can be outfitted with packaged Rainwater, Potable Water and Wastewater systems that are pre-engineered to be easily installed before or after delivery to site.



Use for:

- Residential & Commercial Rainwater Collection
- Stormwater Retention/Detention
- Septic & Sewage Holding
- Wastewater Treatment
- Potable Water Storage
- Pump Chambers
- Fire Protection







The Carat tank consists of two half shells which can be stacked on top of each other, allowing multiple tanks to be stacked on a single pallet for shipping. For example, it is possible to stack five 6,500 L (1700 USG) Carat tanks, or nine 2,700 L (700 USG) Carat tanks on a single pallet. This allows a standard 40 ft. shipping container to house a total tank volume of up to 130,000 Litres (34,000 USG)! The tanks unique stacking feature directly reduces transport costs and environmental impact from vehicle emissions, while making it practical to ship anywhere in the world. No heavy equipment required-two people can easily load and unload tanks into pickup trucks and flat deck trucks and trailers if necessary.



Carat S Belowground Tank - What Makes This Tank Special

- Suitable for H5 vehicle loading up to 3.5 metric tons or approx. 8000 lbs. per axle.
- Suitable for burial depths up to 1.53 meters or approx. 5 feet ideal for colder climates.
- Suitable for areas with occasional high water table up to mid tank level when tank is empty.
- Lowest shipping and handling cost of any tank line
- Multiple fitting locations and internal baffle configurations allowing for easy linking of tanks for higher volume and for customized applications.
- Integrated rainwater, stormwater and wastewater system packages available that easily install into carat tanks.
- Multi-adjustable manway assembly with unique telescoping top shaft that allows for vertical height
 adjustment of approx. 12 inches (0.3 m), and comes with high quality reliable seals. Telescoping shaft is
 topped off with a durable pp. lid (cast iron for vehicle loading) and outer flange that adjusts to up to a 5
 degree slope and sits flush with the finished grade.
- Unlike some other below ground plastic tanks, the carat remains rigid and true including the manway assembly when being back-filled (when installed to guidelines).
- Highly accurate and consistent components provide ease of fit every time.
- 15 year warranty
- Highly competitive with and advantageous over concrete vessels.
- The Carat Tank Dome or manway shaft base section is 24" high and the telescoping dome shaft section can add 12" more height adjustability. Add the extension section to provide for a further 18" for a max. 54" burial depth







USG	IG	LTR	Part #	L (in)	W (in)	H (in)	Lid/Fill Opening (in)	Weight (lbs)
700	583	2700	372024	82	61	55.1	24	265
1000	833	3750	372025	90	69	62.6	24	331
1250	1041	4800	372026	90	78	71.7	24	408
1700	1416	6500	372027	94	86	82.7	24	485



Carat S Belowground Tank - What Makes This Tank Special

- Rainwater cleaning and handling components are designed for easy integration and installation into the Carat tank system
- Pre-engineered, cost effective, high quality, components work together to help provide the cleanest rainwater possible with long-lasting reliability.
- Systems suitable for vehicle loading are available
- Automatic pumping and controller systems to manage between rainwater and city water use.
- Unmatched quality, design and functionality from any other system
- GRAF systems can be used with external filtering and First Flush Diverters devices as well all available from BARR Plastics



The rainwater is first cleaned by a patented Filter System(s). The cleaned water runs into the tank and dirt particles are rinsed into the sewer system with a small amount of water. BARR offers different filter systems for every installation situation.



The Calming Inlet Assembly allows the finest dirt particles to settle on the bottom of the tank. The assembly prevents swirling and also introduces oxygen to the water keeping the water clear and fresh.



Dirt particles that are lighter than water (e.g. pollen) settle on the water surface as a floating layer which is automatically removed when the tanks is full and overflows to the drainage system through the Overflow Siphon Assembly inside the tank. So, regular overflowing of the tank is important for consistent water quality.



The collected rainwater is extracted from the tank using a Floating Suction Assembly that always draws water from just below the surface (approx. 4" or 10 cm) as this is the location of the optimum water quality. The GRAF Rainwater Harvesting System – brilliant design and highly effective – simply providing the best water quality possible prior to treatment.



Graf Tank Dome Lids & Risers

Carat S Tank Dome Micro/Mini/Maxi

Part #	Weight (lbs)	
371009	Dome Shaft Micro for Carat S (for small earth covering)	N/A
371041	Dome Shaft Mini for Carat S	24 (11 kg)
371040	Dome Shaft Maxi for Carat S	33 (15 kg)

Carat S Tank Dome Shaft Mini/Maxi Telescopic

Part #	Length (in)	Description	Weight (lbs)
371010	14.2	Mini telescopic dome shaft with PE lid, pedestrian loading. For 29" - 37" earth cover.	20 (9 kg)
330219	N/A	Lid only (green)	N/A
371011	18.7	Maxi telescopic dome shaft with PP lid, pedestrian loading. For 29" - 41" earth cover.	33 (15 kg)
330219	N/A	Lid only (green)	N/A

Carat S Tank Dome Shaft Cast IronTelescopic/Truck Bearing

Part #	Length (in)	Description	Weight (lbs)
371020	18.7	Telescopic dome shaft w/ cast iron lid, vehicle loading. For 31" - 41" earth cover.	121 (55 kg)
381515	N/A	Lid only (cast iron)	N/A
371021	18.7	Telescopic dome shaft w/o ring or lid, truck bearing*. For 31" - 41" earth cover.	33 (15 kg)

^{*} Truck bearing, 12 tonne

Carat S Extensions (With & Without Pipe Stub)

Part #	Part # Description	
371016	Carat Extension (gasket & 2x adapter included) w/ pipe stub)	43.3 (1100 mm)
371015	Carat extension (gasket & conn face included) w/o pipe stub)	43.3 (1100 mm)

Carat S Manway Extension

Part #	Length (in)	Description	Weight (lbs)
371003	19.7	Manway Extension for Carat S	13 (6 kg)



Internal Filters for Graf Carat S

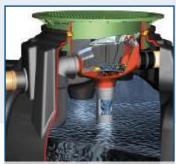




Featuring the Universal 3 Filter



Filter Package 3
Featuring the Optimax
Pro self-cleaning Filter



Minimax Pro
Low profile selfcleaning solution

Filter Package 1

Garden use - for improving the water quality.

With filter package 1, the basic Carat S tank (with external filter) is primarily used for garden irrigation & landscaping, however it can also be used for household applications (Toilet Flushing and Washing Machine). The inflow stilling system controls the water flowing into the tank to protect its components from unnecessary strain and the out flow of water is protected from rodents with an overflow siphon and built in rodent guard. See the External Filter Technologies section for the available external filters.



Part #	Description
342001	Filter Package 1 (incl. Inflow Stilling System, overflow siphon & rodent guard)



Internal Filters for Graf Carat S

Filter Package 2

For use in the home and garden - 100% water yield. This filter package is ideal if you need a water yield of 100%, or if the tank's overflow is connected to an infiltration plant rather than the sewer network. Utilizing a Universal 3 Filter, collected debris can be easily removed with the handle. Integration is easy with the included Spannfix pipe connection sleeve, simply wrap around the connection area and tighten and you have a maintainable, modifiable solution to future-proof your system. To ensure that unnecessary strain on the products are avoided, an inflow stilling system is included to control the water flow into your tank and overflow siphon/rodent guard combo to protect your water on its way out.



Part #	Description
342002	Filter Package 2 (incl. Universal 3 Filter, Inflow Stilling System, overflow siphon/rodent guard and spannfix pipe connection sleeve
340022	Internal Universal 3 Filter Only (w/ 4" connection)
340056	Replacement Internal Filter Basket

Universal 3 Filter

- Space-saving filter technology inside the tank
- The filter housing can be easily removed without tools
- Ideally suited when connecting the tank to soak away
- 11" offset height between inlet and outlet
- Can manage roof areas up to 3800 sqft
- Standard 4" connections
- Emergency overflow system available (as seperate purchase)
- Sieve mesh width of 0.01"

Dome Shaft	Inlet (in)	Tank Overflow (in)	Emergency Overflow (in)
Mini	13.5 - 21.4	24.4 - 32.3	13.5 - 21.4
Maxi	13.5 - 26.9	24.4 - 37.8	31.5 - 26.9





Internal Filters for Graf Carat S

Filter Package 3

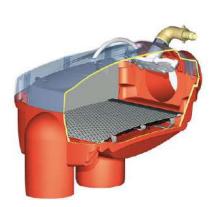
The Optimax-Pro Filter can be integrated into the basic Carat S tank. The convenient, low maintenance solution with self-cleaning filter and 95% water yield. This system utilizes an inflow stilling system to control water inflow and a Spannfix connection sleeve allows for seamless integration into your existing system. It can also be fitted with an Opticlean cleaning unit to provide a comprehensive self-cleaning unit directly within the filter. Tank and filter overflow are connected to the sewer network with this filter package with included overflow siphon and rodent guard keeping your water supply safe and clean.



Part #	Description
342005	Filter Package 3 (incl. Optimax Pro Filter, Inflow Stilling System, overflow siphon/rodent guard and spannfix pipe connection sleeve
340040	Internal Optimax Filter Only (w/ 4" connection) NOTE: hose not included

Optimax Pro Filter

- Provides over 95% water yield
- Low maintenance (self cleaning)
- Space-saving filter technology inside the tank
- Filter housing can be easily removed without tool transparent lid for filter visibility
- Can manage roof areas up to 3700 sqft
- Standard 4" connections
- Self-cleaning Opticlean system available (as separate purchase)
- Low offset height of 6.5" between inlet & outlet
- Very intense water jet for cleaning the filter sieve
- Routine maintenance intervals are kept to a minimum



Dome Shaft	Tank Overflow (in)	Emergency Overflow (in)
Mini	19.5 - 26.4	25.9 - 33.9
Maxi	19.5 - 31.3	25.9 - 37.8

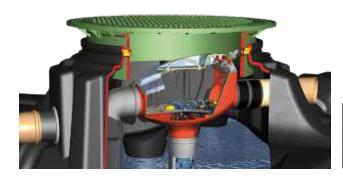


Internal Filters for Graf Carat S

The Minimax Pro

The Minimax Pro produces an impressive 95% water yield for its compact form factor, with available self-cleaning filter and effective management of roofsurfaces up to 3700 sq. ft. This revolutionary filter is fitted with standard 4" connections and the 0.01" (35 mm) sieve mesh keeps all debris out for a truly complete water filtration system built right into your tank.





Dome shaft	Inlet	Tank Overflow (in)
Mini	12.8 - 20.7	15.9 - 23.8
Maxi	12.8 - 24.6	15.9 - 27.8

Part #	Description
340093	Minimax Pro Internal Filter (Curved or Straight Outlet available)



External Filters for Graf Carat S

Optimax Filter

This external filter provides over 95% water yield and is low maintenance as it is self cleaning. Use for roof surfaces up to 3,700 sq. ft. with DN100 connections or 8,000 sq. ft. with DN150 connections.

Using a telescopic dome shaft, it features a continuously variable installation depth of 22.8" to 41.3" with a minimal height offset of 8" between inlet and outlet. The Opticlean cleaning unit is available as a separate product (does not include hose).



Part #	Description
340030	Optimax External Filter suitable for pedestrian loading
340031	Optimax External Filter suitable for vehicle loading
340041	Opticlean external (without hose)

Connecting dimensions		
Inlet	13" - 31.5"	
Outlet	20.9" - 39.3"	
To the sewer	20.9" - 39.3"	

Minimax Filter

Use the Minimax filter for roof surfaces up to 3,700 sq. ft. with standard 4" connections. Using a telescopic dome shaft, it features a continuously variable installation depth of 19.1" to 38.2" with a 3.9" offset between the inlet and outlet. The filter carries a sieve inset mesh with a width of 0.01". The Miniclean cleaning unit is available as a separate product.



Part #	Description
340061	Minimax External Filter stuitable for pedestrian loading
340062	Minimax External Filter stuitable for vehicle loading
340045	Miniclean external

Connecting dimensions		
Inlet	13" - 31.5"	
Outlet	16.9" - 35.4"	
To the sewer	13.4" - 31.9"	



External Filters for Graf Carat S

Universal Filter 3

This external filter boasts a 100% water yield, making it ideal for smaller roofs with surface areas up to 3,700 sq. ft. with DN100 connections or 5,400 sq. ft. with DN150 connections. The filter is also ideal for infiltration and pond systems. The filter is able to be installed at a continuously variable depth of 22.4" to 41.3" with a minimal height offset of 10.6". The cover will stay flush with ground level and features a lockable childproof cover. Features a filter insert mesh width of 0.05".



Part #	Description
340020	Universal 3 External Filter suitable for pedestrian loading
340021	Universal 3 External Filter suitable for vehicle loading
340524	Replacement Filter Basket for Universal 3 Filters

Connecting dimensions		
Inlet	10.7" - 28.5"	
Outlet	21.4" - 37"	
To the sewer	10.7" - 28.5"	

Universal Filter 3

Use the pot filter as a good value alternative for installation at ground level (underground tank inflow) before the cistern. It is suitable when only used for garden irrigation, ponds or infiltration.

Connection: DN100

Domensions: 20", Height: 13.4".



Part #	Description
340003	Pot Filter
347010	Replacement Filter Mats (2)

Connecting dimensions		
Outlet	11.3"	



External Filters for Graf Carat S

Industrial Optimax Filter

This external filter is ideal for roof surfaces up to 8,000 sq. ft. with DN 100 connections or 16,100 sq. ft. with DN 150 connections using patented filter technology.

Smooth installation depths are possible from 28.9" to 51.9" using the telescopic dome shaft. There is only a 8.8" height offset between the inlet & outlet.



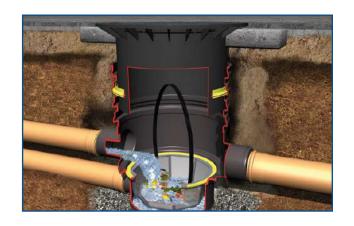
Part #	Description	
340035	Optimax Industrial External Filter suitable for pedestrian loading	
340036	Optimax Industrial External Filter suitable for vehicle loading	
340041	Optimax Cleaning Unit External (hose not included)	

Connecting dimensions		
Inlet	10.7" - 28.5"	
Outlet	25.8" - 48.9"	
To the sewer	25.8" - 48.9"	

Universal 3 Industrial Filter

Use this filter for roof surfaces up to 8,000 sq. ft. with DN 100 connections or 12,900 sq. ft. with DN 150 connections.

Features continuously variable installation depths of 26.7" to 50" using the telescopic dome shaft. There is only 9" height offset between the inlet and outlet.



Connecting dimensions		
Inlet	15.5" - 37.9"	
Outlet	24.6" - 46.9"	
Emergency Over- flow	15.5" - 37.9"	

Part #	Description
340050	Universal 3 Industrial Filter Suitable for pedestrian loading
340051	Universal 3 Industrial Filter Suitable for vehicle loading



Belowground Fibreglass Tanks

Environmental concerns have changed the management of stormwater runoff. When stormwater runs directly into sewer systems, it can result in either groundwater contamination or overloading of stormwater infrastructure. To address these problems, many communities now require a specific retention time before allowing stormwater to run into the drainage system. Typically, retention ponds are used to meet this requirement. As part of a stormwater management system, our fibreglass underground water tanks offer a better alternative, which may also qualify for the stormwater design credits available under the LEED Sustainable Sites category (Credits 6.1 and 6.2). While meeting retention-in-time requirements, developers and property owners can also make better use of property by locating stormwater tanks in parking lots or parking areas. This is a significant benefit with the rising cost of land. (ZCL tanks are rated for H-20 loads.) In addition, the collected stormwater can be used for non-potable uses such as landscape irrigation.







These large fibreglass tanks are commonly used for toilet and urinal flushing, process water in manufacturing facilities, heating & cooling applications and irrigation along with controlling stormwater runoff. They come in a wide variety of sizes, shapes and configurations and can be fitted with a number of different accessory packages. Just call BARR with your specific requirements and we'll be happy to find the best solution for your needs.



STORMSTOP Stormwater Retention & Detention Systems

Raise the BARR in your Stormwater Control System Designs, thanks to BARR StormStop Modular Tank Systems. Our precise German-engineered belowground modular GRAF systems top all others in terms of design, ease of installation, corrosion-resistance and water tightness.

The StormStop Tank System

The StormStop system allows for deeper burial as standard, up to 5 feet (and more with modified backfill materials) and is able to be placed in traffic areas when necessary. Their adjustable manway riser and lids allow for both pedestrian and vehicle loading. The system features antifloatation capabilities, allowing it to stand resistant to high water tables with appropriate backfill and burial depths. It also features high quality, durable pipe connections, manway seals and fittings. Tanks fitted with preexisting internal control mechnanisms can easily be tailored by BARR to suit the designers' needs. We have innovate and reliable designs available - just ask!



The StormStop Tank System can be shipped very efficiently. The tanks are designed as two half-shells that connect together in installation, but for storage and shipping purposes, they can be stacked inside one another. This makes it possible to ship five of the lightweight 6,500 litre tanks in the space of one, saving you money! Another benefit of this system is that you will save big on installation costs and scheduling your project, as no heavy cranes or equipment are needed during installation. Two people can easily carry a single tank and set up.



More Space

Individual tanks come in four standard sizes: 2,700L, 3,750L, 4,800L and 6,500L.

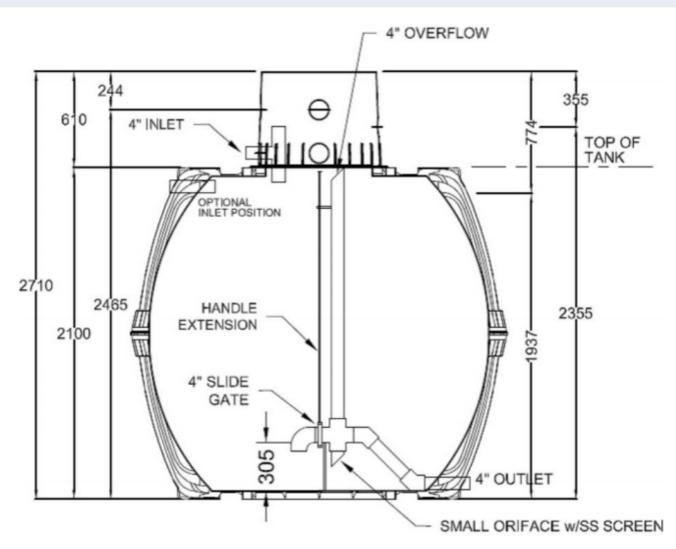
Need more storage space? The Storm-Stop system can handle over 13,000 litres when connecting multiple tanks together.



INSTORMSTOP Stormwater Retention & Detention Systems

Know the Specs

Common BARR StormStop Detention Tank Inlet/Outlet Module with Slow Release System:



Versatility

Stormwater control, debris removal, settlement and water reclamation designs as well as rainwater capture and reuse designs all can be easily incorporated into the BARR StormStop Modular Tank System. Contact BARR today to set up your system for your commercial or residential needs.



STORMSTOP Stormwater Retention & Detention Systems

Herkules Infiltration & Detention Tank

Benefits Include:

- Awarded product of the year by the German Trade Association for Plastics Processing (FKVV)
- Cost-effective thanks to good price-performance ratio
- Patented fast connection (no screws required for fitting)
- Durable seal through solid profile sealing (lifetime of over 25 years proven in laboratory tests)
- Can be extended as required. Volumes of several 1,000 I are possible using preformed connections and connection points
- Easy to transport due to low weight and practical size (fits through every 80 cm wide door)
- Good value solution
- Percolation system to percolate rainwater
- Retention system to relieve public sewer networks
- Saves rain tax if levied regionally









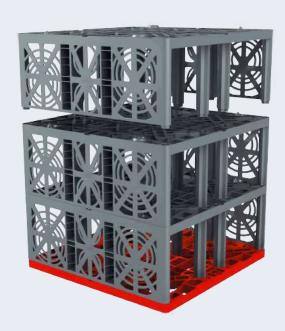
STORMSTOP Stormwater Retention & Detention Systems

The Graf EcoBloc Inspect Flex

The GRAF EcoBloc Flex is a versatile system, able to be used for rainwater infiltration, retention or rainwater harvesting. Shipping is cost-efficient, as the modular system's two halves can be stacked, one inside the other.

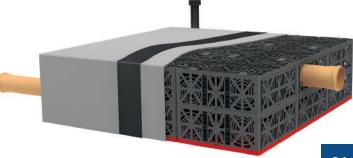
Even under very heavy loads, the EcoBloc system can be installed at a depth of up to 16.5 feet. Up to 14 layers are possible and the system can withstand a capacity of 60 tons. Note: the system size and load bearing can be adjusted individually to suit requirements of traffic and non-traffic areas.

Designed to have high rate of percolation and barrier-free inspection, the EcoBloc has DN 100, 150 and 200 connections on all sides. DN 100 connections are positioned eccentrically at the side for complete de-aeration The system is easily cleaned by pressure washing and designed for a service life of over 50 years



Part #/Model	Size	ize Description		Weight (lbs)
402005	31" x 31" x 31"	GRAF EcoBloc Flex (1 Module)	55 USG / 205L	17.6
402006	31" x 31" x 1.5"	GRAF EcoBloc Flex Baseplate	6.6 USG / 25L	N/A
402002	N/A	GRAF EcoBloc Flex End Plates (Set of 2)	N/A	N/A
402028	N/A	GRAF EcoBloc Connectors (Set of 25)	N/A	N/A
369017	N/A	Deaeration End	N/A	N/A







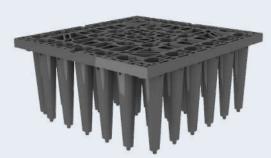
STORMSTOP Stormwater Retention & Detention Systems

The Graf EcoBloc Maxx

The GRAF EcoBloc Flex is a versatile system, able to be used for rainwater infiltration, retention or rainwater harvesting. Shipping is cost-efficient, as the modular system's two halves can be stacked one inside the other.

The modules are very efficiently German designed for maximum structural capacity for material used, maximum space efficiency for shipping and storage on site, and speed and ease of installation. A wide variety of configurations and burial depths are possible with EcoBloc - moreso than with other stormwater systems. The EcoBloc Modules Maxx still offer a reservoir coefficient of 97%, despite their high load-bearing capacity. Up to 14 layers of EcoBloc modules high are possible - 5 m (16.4').

The GRAF EcoBloc system is designed for a service life of over 50 years.





Part #/Model	Size Description		Capacity	Weight (lbs)
402200	31" x 31" x 14" GRAF EcoBloc Maxx (1 Module)		59 USG / 225L	17.6
402201	31" x 31" x 1.5"	GRAF EcoBloc Maxx Baseplate (1 Module)	N/A	N/A
402203	N/A	GRAF EcoBloc Maxx End Plates (Set of 2)	N/A	N/A
402028	N/A	GRAF EcoBloc Connectors (Set of 25)	N/A	N/A
369017	N/A	Deaeration End	N/A	N/A



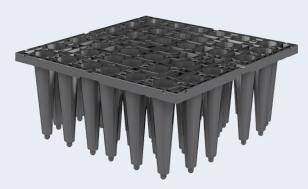
STORMSTOP Stormwater Retention & Detention Systems

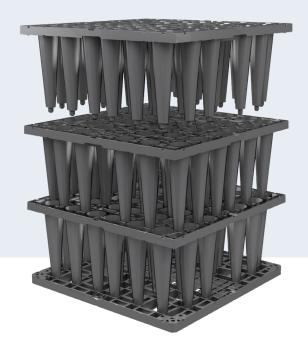
The Graf EcoBloc Inspect smart

The patented design offers space-saving advantages throughout the logistics chain, saving considerably on storage and shipping. These blocks are also designed to be labour-saving through simple and effortless installation; the straightforward "click"-together system enables faster assembly than ever before with less effort.

Even under extreme loads, this innovative system can be installed at a depth of up to 7.5 m depending which block model is used, giving you more versatility than any other EcoBloc system before. Choose from the Smart, Smart Plus, or Smart Ultra block for varying installation depths and storage volumes.

The system is also easily inspected and cleaned at high pressure via the standard inspection channel, features connections up to DN600, and is designed for a service life of over 50 years.





Part #/Model	Size	Description	Capacity	Weight (lbs)
402500	31" x 31" x 13"	GRAF EcoBloc Inspect smart (1 module)	56 USG / 211L	22
402530	31" x 31" x 13"	GRAF EcoBloc Inspect smart plus (1 module)	56 USG / 211L	25
402560	31" x 31" x 13"	GRAF EcoBloc Inspect smart ultra (1 module)	56 USG / 211L	26
402501	31" x 31" x 1.6"	GRAF EcoBloc Inspect smart Baseplate	N/A	9
402503	N/A	GRAF EcoBloc Inspect smart End Plates (set of 2)	N/A	N/A
402028	N/A	GRAF EcoBloc Inspect smart Connectors (set of 25) N/A		N/A



STORMSTOP Stormwater Retention & Detention Systems

Vario 800 Flex Shaft System for EcoBloc

The Vario 800 Flex Shaft System provides even more flexibility to your EcoBloc system; the shaft can be fully integrated into an EcoBloc retention/detention system with no restrictions on the position it is palced. The corner position enables the connection of large pipe diameters of up to 16" on the two side panels. The central position enables the connection of large pipe diameters of up to 16" on the two side panels. The central position offers ideal access to the inspection camera from all directions. Using the optional GRAF Universal Shaft inlet module, a connection of up to 12" can be made with a freely defined angle. The recommended inlet module rotates 360o for precise positioning for optimal connections to be made. A 23.6" clearance allows for optimal accessibility.

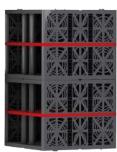




Part # Size (in) Description		Description
450050	31.4 x 34.1 x 14	Vario 800 Flex Type 1 (for one layer of EcoBloc)
450051	31.4 x 34.1 x 26	Vario 800 Flex Type 2 (for two layers of EcoBloc)

Part #	Description	
450052	Vario 800 Flex Base & Cover Set	
330360	Infiltration Inlet Module w/ Telescopic Dome Seal	
371003	Manway Extension (Length: 11.8")	











Vario 800 Flex Type 1



Leaf Eaters

The Leaf Eater Original

Leaf Eaters offer the ultimate high performance economical choice of rain heads for heavy rainfall areas. Designed to filter out debris you can see and prevent them from entering a storage tank or clogging the drainage system, they are normally mounted on the wall below the gutter and just above the top height of your tank. A Flush Downpipe Diverter chamber is usually installed just below the Leaf Eater Filter as a secondary cleaning device that removes much of the finer debris that you can't easily see to ensure that only the cleanest water is entering your storage tank(s).

These are the #1 choice for above ground rainwater filtering devices in the world, so you can be assured that you are choosing the ideal and best performing product for this application.



RHLE99 - Original

The Leaf Eater Advanced

- Compact, versatile rain head for quick and easy installation
- Patented single screen technology for advanced debris shedding (Cleanshield™)
- Minimal maintenance the screen automatically sheds debris
- Pivot the outlet to suit vertical or horizontal (rear outlet) downpipes - variety of installation options in one product
- (VH Pivot[™] patent pending)
- High flow rate performance and especially well suited to homes and buildings surrounded by trees and other debris sources
- Superior catchment efficiency at low and high flow rates
- Single screen with 0.955mm aperture mosquito proof stainless steel mesh
- Accomodates a 3" or 4" outlet
- Includes the new Clean Shield[™] Screening technology and the versatile new VH Pivot outlet that fits all downspout installations
- Directs leaves & debris away from the flow of water
- Improves tank water quality
- Single screen assembly for easy removal and installation



RHAD100 - Advanced



Leaf Eaters

The Leaf Eater Ultra

The ultimate in innovation, design and performance, this rain head is a combination of a modern, cleek design combined with the latest rain head technology. This rain head has been designed with an integrated cover and cap to compliment modern and classic architecture.

Leaf Eater Ultra[™] uses the rainwater's force to deflect leaves and large debris off the screen (Hydro Activated Filtration[™] technology). The Leaf Slide deflects debris away from the screen allowing for high flow rate performance. Features a single mosquito proof stainless steel mesh screen with 1/32" aperture. The outlet pivots to suit vertical or horizontal (rear outlet) downspouts (VH Pivot[™]). The Ultra is designed to clean automatically, so minimal maintenance is required.



RHUL100 - Ultra

The Leaf Eater Slimline

A sleek, streamlined rain head with an anti-splash cover, the Leaf Eater Slimline is ideal for decks, verandas, posts and aesthetically-sensitive homes. Rather than shedding leaves and debris onto your deck or other areas, the Leaf Eater Slimline collects them inside its anti-splash cover. When the rain head requires emptying, a red overflow flag automatically appears. Simply empty it and reset.

With its mosquito-proof 955 micron stainless steel screen, the Leaf Eater Slimline stops leaves, debris, mosquitoes and other pests from getting into your downpipes and rain harvesting system. This gives you better quality water and more of it.



RHSL101 - Slimline

Leaf Eater Parts Numbers

Part #	Downspout (in)	Box Qty	Description
RHLE99	3	4	3" Round Leaf Eater Original
RHAD100	3-4	12	3-4" Leaf Eater Advanced
RHUL100	3-4	6	3-4" Leaf Eater Ultra
RHSL101	3-4	8	3-4" Leaf Eater Slimline



Leaf Beater & Leaf Catcha

The Leaf Beater

The Leaf Beater is a compact high performance rain head that comes with an aperture elliptical primary screen which can be adjusted to achieve the best operating setting. The screen is virtually vertical, allowing the water to wash debris continuously off the screen to reduce buildup. Versatile application - comes in 3" and for 4" for round PVC downspouts, and 2" x 3" and 3" x 4" for rectangular metal or PVC downspouts. Ensure that you install large gutter drains in conjunction with installation of a rain head to allow all debris to drain from the gutter and be filtered out by the rain head.



RHLB20

Part #	Downspout (in)	Box Qty	Description
RHLB21	4	4	Leaf Beater - fits 4" Round Downspout w/ VH Pivot
RHLB97	2 x 3	4	Leaf Beater - fits 2" x 3" Rectangluar Downspout

The Leaf Catcha

The Leaf Catcha comes with two horizontal internal screens - one coars and one fine which collects material from the gutter in the main body of the filter, instead of deflecting debris to the ground. It features a good inlet option for plumbing - downpipes directly into rainwater tanks, cisterns or barrels to act as a high capacity filtering device. Use as a large particle filtration device for a variety of other water handling systems. Plus, the Rain Catcha offers an easy cleanout of captured debris.



Part #	Downspout (in)	Box Qty	Description
RHRC99	3 & 4	8	Dual Fit Round Leaf Catcha - fits 3" or 4" dia. downspouts



Leaf Eater Commercial Heads

Leaf Eater Commercial (Polypropylene)

Designed for commercial applications, this rain head incorporates a maintenance-friendly single screen to keep leaves, debris, pests and mosquitoes out of your rain harvesting system. The Leaf Eater Commercial Rain Head is made from polypropylene, incorporates a 0.955 mm stainless steel mesh screen and can handle high flow rates up to 20 litres per second. Its versatile outlet allows for installation using a flexible coupling or directly into both 150mm DWV and pressure pipe.



Part #	Downspout Size	Description
RHCL60	6"	6" Leaf Eater Commercial (Polypropylene)

Leaf Eater Commercial (Steel)

A metal rain head designed for commercial applications that can handle high flow rates and water volumes while keeping leaves, debris and mosquitoes out of downpipes and Rain Harvesting systems. These rain heads are purpose-built for commercial applications and can handle flow rates up to 17 litres per second.

This metal rain head can be easily painted to suit any building's colour scheme and incorporates 0.955mm stainless steel mosquito proof mesh.



Part #	Downspout Size	Description
RHCL60	6"	6" Leaf Eater Commercial (Polypropylene)



GRAF Rain Harvesting Filters

The Quattro Twist

The Quattro Twist from GRAF provides a 90% water yield for up to 2.7" x 4.7" rectangular downpipes or up to 3" round piping. One quick adjustment bypasses the filtration and collection for protection of the hardware in the winter months. This system is suitable for roof areas up to 860 sq. ft. and is available in either beige or brown to complement the colour of your home.



Part #	Downspout Size (in)	Description
503052	2.7 x 4.7	Beige Quattro Twist Downspout Filter
503051	2.7 x 4.8	Brown Quattro Twist Downspout Filter

The Rapido Quattro

With an installation time of only 5 minutes this quick solution to rainwater collection is suitable for up to 860 sq. ft! The Rapido Quattro is compatible ith square down spouts measuring 2" x 3" and the included connection seal and core drill ensures you have the equipment you need to make its installation quick and easy. The overflow is perfect for the rainy seasons where you have more rain than you can collect. An all-season solution to residential rainwater collection.



Part #	Downspout Size (in)	Description
503071	2 x 3	Grey Rapido Quattro Downspout Filter



GRAF Rain Harvesting Filters

The Speedy

With an installation time of only 5 minutes this quick solution to rainwater collection is suitable for up to 860 sq. ft! The Speedy is compatible with round piping anywhere from 2.7" - 4.7" and the included connection seal and core drill ensures you have the equipment you need to make installation quick and easy. The overflow is perfect for the rainy season where you have more rain than you can collect.



Part #	Downspout Size (in)	Description
503041	2.7 x 4.7	Grey Speedy Downspout Filter







Rainwater Harvesting Diverters

Downspout Diverters

Standard Downspout Diverters

Downspout diverters are designed mainly for residential use to avoid build up of sediments and other contaminants inside your storage tank - keeping the water fresher and tank cleaning to a minimum. Diverters take the first flow of rainwater, which may contain contaminants from the roof and gutters, seal it off and automatically divert the flow of cleaner water to the tank. After slowly releasing itself of contaminated water, the diverter resets automatically.

The Downspout Diverter comes in kit form - just add appropriate length of 3" or 4" PVC pipe, depending on the size of kit you have and the size of chamber you need to assembled and install. Note that all collected rainwater should pass through a first flush diverter that automatically collects and diverts at least the first 0.02 inches (0.5mm) of rain at the beginning of a rainfall event. The quantity of water diverted is 10.4 gal for 1000 ft of catchment area (50 litres/100m). The diverted water can be discharged to an acceptable locations, such as a flower bed or drainage system.



Part #	Downspout (in)	Box Qty	Description
WDDS99	3	10	3" Downspout First Flush Diverter Kit - Assembly Required
WDDP111	4	10	3" Downspout First Flush Diverter Kit Plus Downpipe - Assembly Required
WDDP120	4	1	4" (100 mm) First Flush Advanced Diverter

First Flush Advanced Diverter

The First Flush Advanced is more effective at diverting contaminated water. Its patented high-flow inlet largely solves the problem of fast-moving dirty water "skipping" over or around the diverter entrance on traditional T-junction first flush diverters.

With its electronic advanced release valve, the First Flush Advanced gives you greater control over how frequently you release your diverted water. Increase your release frequency to maximise water quality or release the dirty water less frequently to maximise stored water volumes.





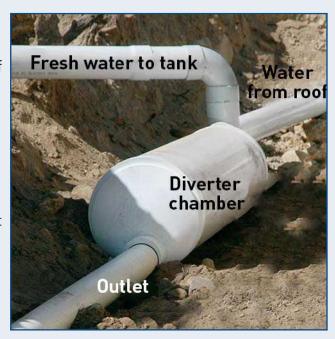
Rainwater Harvesting Diverters

Downspout Diverters

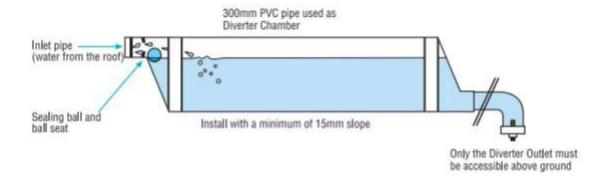
In-Ground Diverters

In-Ground Diverters provide an innovative and cost saving solution to convert a "wet" system to a "dry" system. To reduce freezing, water is diverted below the freezing level of the ground. On a sloping site, this diverter ensures that the water that would normally remain in the pipes empties out. Just add 12" dia. PVC pipe cut to the appropriate length to create the size of water diverter vessel that is required, depending on your site conditions.

Note that all collected rainwater should pass through a first flush diverter that automatically collects and diverts at least the first 0.02 inches (0.5mm) of rain at the beginning of a rainfall event. The quantity of water diverted is 10.4 gal for 1000 ft of catchment area (50 litres/100m). The diverted water can be discharged to an acceptable location such as a flower bed or drainage system.



Part #	Downspout (in)	Box Qty	Description
WDIG99	12	1	In-Ground Water Diverter for wet-to-dry system conversion





Rainwater Harvesting Accessories

Tank Level Indicators

Wireless Water Level Indicator

The wireless tank level indicator transmits a signal wirelessly to the receiver up to 100 metres away. It measures the water level utilising a reliable solid float system that does not rely on ultrasonic beams so it will not interfere or snag on any internal components. Features an easy read dial with "Empty" and "Full" indicators and is suitable for all vented tanks up to 3 metres tall (includes underground tanks).





Part #	Description
TATG02	Tank Gauge Water Level Indicator



Rainwater Harvesting Accessories

Other Accessories

Gutter Outlet

Large gutter outlets, when used with the Leaf Eater, Beater, and Catcher Rain Heads, allow high volumes of rainwater to pass freely from rooftops into storage tanks and drainage systems without blockage. A properly fitted gutter outlet will reduce the potential to catch foliage and pollutants travelling in the gutter, meaning less susceptibility to water pooling and associated damages such as gutter gardens or gutter corrosion.



Part #	Downspout (in)	Box Qty	Description
GSG099	3	1	Large Gutter Outlet Drain - fits 3" dia. downspout

Tank Top Filter Baskets

Tank Screens are the final barrier for keeping leaves, debris, mosquitoes and other pests out of your rainwater. Keeping these contaminants out helps to protect the quality of the water you collect.



Part #	Description	Weight (lbs)
66300.061	16" Water Fabric Basket Filter 40 Micron	1
200SBS	2" Suction Basket Strainer	N/A
300SBS	3" Suction Basket Strainer	N/A
TASS06	12" Basket w/ Stainless Steel Screen	N/A
TATS01	16" Strainer Basket w/ Stainless Steel Screen	N/A
300212	8" Short Basket Strainer White	1
300116	8" All Poly Basket Strainer (5" Depth)	N/A
300120	12" All Poly Basket Strainer (7" Depth)	N/A
300126	15" All Poly Basket Strainer (7.25" Depth)	N/A
19469	5" Lid Basket	1