





TRIDENT RAINWATERFILTERS



TRIDENT RAINWATERFILTERS

A rain water filter is the most important part of a rain water system, even more important than the rain water borehole or pump. Too large or too small a borehole somewhat increases or reduces the efficiency of the system. A pump that is too large or too small ensures that there is insufficient pressure on the drainage points or that a relatively large quantity of energy is being used. In both cases the efficiency will reduce by a mere few percent. But when using a poor quality filter it is different. If a filter does not function, is clogged or is easily polluted, no or hardly any rain water will end up in the tank. The automatic rain water system will then switch to potable water, while nobody notices and meanwhile only potable water is being used. Until it is discovered that the filter does not function properly or needs cleaning. So, basically, when using a poor or polluted rain water filter, the rain water system is of no use. Therefore it is important to acquire a proper rain water filter.



Before making use of rain water in your home, you want to make sure that the rain water is clean. For this purpose, GEP has developed filters, based on Trident filter technology. This technology ensures that dirt particles in the rain water are separated before the clean rain water is stored in the tank.

A Trident filter consists of a filter surface of special triangular slats perpendicular to the flow direction. These slats were tilted allowing the flowing rain water to be pushed through the openings between the slats. Dirt particles will remain on the filter plate and are discharged towards the sewer.

As, over time, the dirt particles may clog the filter openings, it is essential to keep the filter clean. As a result of a polluted filter less rain water will flow into the tank, reducing the efficiency of the rain water system. In order to make sure that your filter is timely cleaned, all Trident filters can be supplied with an automatic washer.

FILTER SURFACE OF TRIDENT RAIN WATER FILTERS.

The surface of a rain water filter is very important. The larger, the better, which is obvious. The more square centimetres of filter surface, the better it is. Then the rain water will have sufficient opportunity to penetrate the filter material on its way to the rain water tank. The filter material is also significant. A mesh-like woven material will sooner get clogged as each mess forms a narrowing that dirt may get stuck into, as a result of which the filter becomes clogged. Also the effective filter surface is of importance. So-called flow-independent surfaces are more useful than a filter surface that depends on the number of litres per minute flowing past.









TRIDENT FILTER PLATES ARE POLISHED.

In addition to tilting of the profiles at an angle, the Trident filter plates are also electrolytically polished. This concerns a specific process during which a thin layer of material is applied to the filter and dissolved, as it were. This causes the "peaks" of the material surface to dissolve quicker than the "low points", realising an equalising effect. As a result the surface becomes much smoother.

The electrolytical polishing of the Trident filter plates has several significant advantages. The iron in the surface will dissolve more rapidly than the nickel. Subsequently enrichment of nickel takes place in the surface layer, making the stainless steel even more corrosion-resistant. In addition, all possible pollutions of the surface are dissolved and the surface becomes extremely passive. As a result, much less adhesion of dirt particles occurs, while the risk of bacteria growth in the material's pores is reduced.

TRIDENT FILTER TECHNOLOGY IN PRACTICE.

The Trident filter plates are made of high-quality socover inox, so there is a small risk of corrosion or damage. Due to the unique tilted slats pattern of the Trident filter surface each square centimetre functions very efficiently. The water is being grated off, as it were. Dirt will not build up so easily, because the Trident filter plate will be just under water in case of a full tank. Dirt will then start to float and will be discharged by the rain water flow. Stubborn dirt will frequently be sprayed by use of the (optionally available) filter washers.





WHY DO TRIDENT RAIN WATER FILTERS FUNCTION SO LONG AND SO WELL?

- Trident filter plates are made of high-quality socover inox.
- Thanks to electrolytical polishing a very smooth and dirt-resistant surface is created.
- They have a volume flow-independent filter surface.
- They have a relatively large filter surface.
- They have tilted profiles that increase the efficiency per cm2 of filter surface.
- Triangle-shaped slats do not clog so easily.
- Dirt is discharged by rain water in case of a full tank.
- Trident filters are (optionally) extendable with automatic filter washers

TRIDENT TANK FILTER

Trident 150 tankfilter with skimmer overflow Trident 325 tankfilter with skimmer overflow Trident 450 tankfilter with skimmer overflow







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

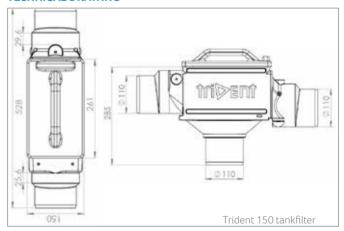
- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

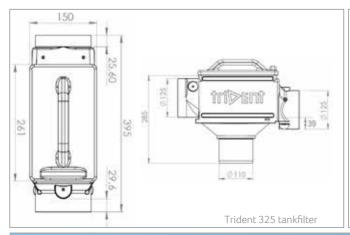
APPLICATION AREA

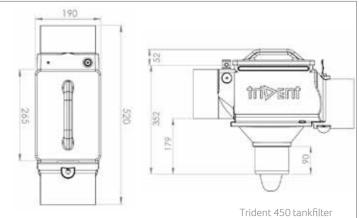
The Trident tank filters are supposed to be built into a tank or rain water borehole. The Trident tank filters are suitable for filtering rain water from house roofs or buildings with a roof surface up to 450 m2 (based on 300 litres/sec/ha). There are 3 different types available, that distinguish themselves by their connection diameters of Ø 110, Ø 125 or Ø 160. The filters must be installed in a cistern or attached to a top unit between the supply and discharge of a cistern.

TECHNICAL DATA	150	325	450
Height in mm:	285	285	352
Width in mm:	150	150	190
Length in mm:	528	395	520
Height difference of the supply in mm:	39	39	39
Connection waste water in/out in mm:	Ø110	Ø125	Ø160
Clean water out in mm:	Ø110	Ø110	Ø110
Weight in kg:	ca. 1	ca. 1	ca. 1,2
Size of cover in cm:	26 x 13	26 x 13	26 x 18
Material housing:	PE	PE	PE
Material filter grid:	RVS	RVS	RVS
Connection filter cleaner (optional):	1/2"	1/2Ba"	1/2"

TECHNICAL DRAWING









Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle (see 1).

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of $150\,\mu m$. This fine filter can be used in places where high demands are placed on the water quality. (see 3)

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes (see 2).

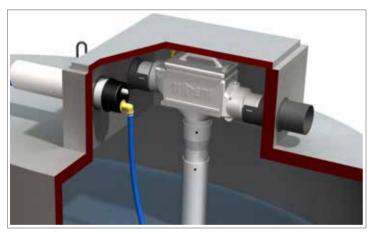
Rat valve stainless steel

Stainless steel rat valve can be used in the Trident 150 and 325 tank filter. be edited. Prevents ingress of vermin from the overflow to sewer or surface water (see 4)

Check valve for Trident 150 tank filter

Valve to place behind the filter in the drain. Plug-in model, suitable for 110 mm pipe pieces. Reduced the risk of backstopping from the overflow towards the tank. Material polypropylene black, provided of flexible rubber lining.

TECHNICAL OVERVIEW

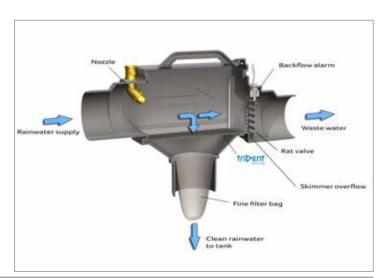




DELIVERY

Product consists of: filter housing, Trident filter grill (removable), cover and installation instructions.

Art nr	NAME	PG
401122	Trident 150 tank filter with skimmer overflow	2
401123	Trident 325 tank filter with skimmer overflow	2
401145	Trident 450 tank filter with skimmer overflow	2
401151	Nozzle set for Trident 150, 325 and 450 tank filter	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401157	Fine filter bag	2
401162	Trident 150 click connection set 110 mm	2
401163	Trident 325 click connection set 125 mm	2
401164	Trident 450 click connection set 160 mm	2
401158	Backflow alarm for Trident filters	2
401156	Rat valve stainless steel	2
401165	Check valve for Trident 150 tank filter	2



TRIDENT BOX FILTER

Trident 150 box filter with skimmer overflow Trident 325 box filter with skimmer overflow







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

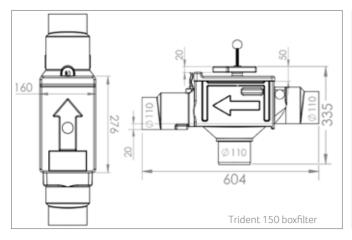
- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

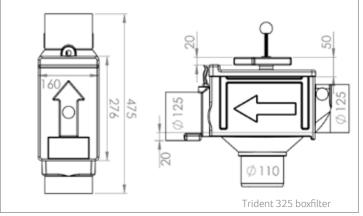
APPLICATION AREA

The Trident box filters are suitable for filtering rain water from roofs of homes or buildings with a roof surface up to 325 m2 (based on 300 litres/sec/ha). There are 2 different types available, that distinguish themselves by their connection diameters of Ø 110 or Ø 125. The filters must be installed in a cistern or attached to a top unit between the supply and discharge of a cistern. The Trident box filter is intended for deep rainwater discharge pipes. Thanks to the detachable filter box the filter plate is easily accessible for service and maintenance.

TECHNICAL DATA	150	325
Height in mm:	335	335
Width in mm:	160	160
Length in mm:	604	475
Height difference of the supply in mm:	20	20
Connection waste water in/out in mm:	Ø110	Ø125
Clean water out in mm:	Ø110	Ø110
Weight in kg:	ca. 1.7	ca. 1.5
Size of cover in cm:	27 x 16	27 x 13
Material housing:	PE	PE
Material filter grid:	RVS	RVS
Connection filter cleaner (optional):	1/2"	1/2"









Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of 150 µm. This fine filter can be used in places where high demands are placed on the water quality. (see 2)

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes (see 3).

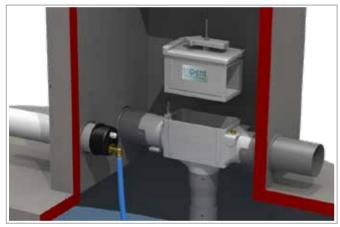
Rat valve stainless steel

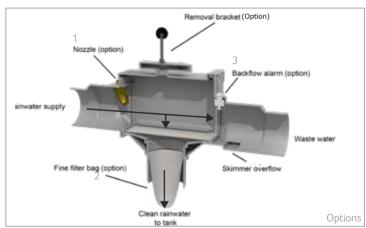
Stainless steel rat valve can be used in the Trident 150 and 325 tank filter. be edited. Prevents ingress of vermin from the overflow to sewer or surface water.

Check valve for Trident 150 tank filter

Valve to place behind the filter in the drain. Plug-in model, suitable for 110 mm pipe pieces. Reduced the risk of backstopping from the overflow towards the tank. Material polypropylene black, provided of flexible rubber lining.

TECHNICAL OVERVIEW





DELIVERY

Product consists of: filter housing, fliterbox, Trident filter grill, removal bracket and installation instructions.

Art nr	NAME	PG
401124	Trident 150 boxfilter with skimmer overflow	2
401125	Trident 325 boxfilter with skimmer overflow	2
401151	Nozzle set for Trident 150, 325 and 450 tank filter	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401157	Fine filter bag	2
401162	Trident 150 click connection set 110 mm	2
401163	Trident 325 click connection set 125 mm	2
401158	Backflow alarm for Trident filters	2
401369	Removal bracket for filterbox	2
401165	Check valve for Trident 150 tank filter	2



TRIDENT BASEMENT FILTER

Trident 150 basement filter with brackets for ceiling mounting







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

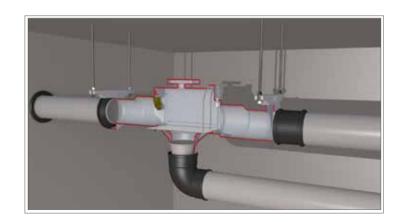
APPLICATION AREA

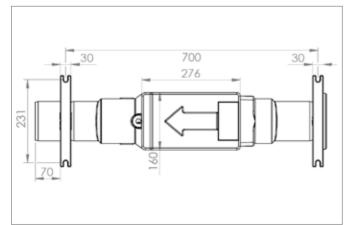
The Trident basement filter is meant to be attached to the ceiling. The Trident basement filter is suitable for filtering rain water from roofs of homes or buildings with a roof surface up to 150 m2 (based on 300 litres/sec/ha). The basement filter has a connecting diameter of \emptyset 110 and is provided with mounting brackets. The Trident basement filter must be attached above ground level, hanging from the ceiling or brackets. The filter box is detachable for the purpose of inspecting the filter plate.

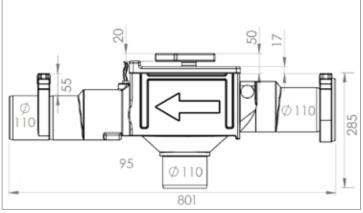
TECHNICAL DATA

Height in mm: 335 Width in mm: 231 Length in mm: 801 Height difference of the supply in mm: 20 Connection waste water in/out in mm: Ø110 Clean water out in mm: Ø110 Weight in kg: ca. 3,2 Opening with cover in cm: 27 x 16 Material housing: PF Material filter grid: RVS Connection filter cleaner (optional): 1/2"

Necessary space above filter in mm minimum210









Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle (see 1)

Automatic time-controlled filter cleaner 1/2 "

 $\label{thm:controlled} Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.$

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of $150\,\mu m$. This fine filter can be used in places where high demands are placed on the water quality. (see 2)

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes (see 3).

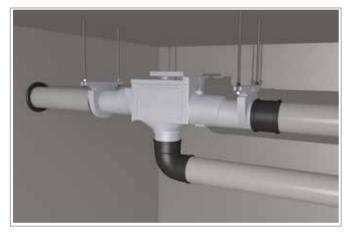
Rat valve stainless steel

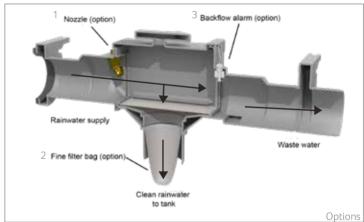
Stainless steel rat valve can be used in the Trident 150 and 325 tank filter. be edited. Prevents ingress of vermin from the overflow to sewer or surface water.

Check valve for Trident 150 tank filter

Valve to place behind the filter in the drain. Plug-in model, suitable for 110 mm pipe pieces. Reduced the risk of backstopping from the overflow towards the tank. Material polypropylene black, provided of flexible rubber lining.

TECHNICAL OVERVIEW

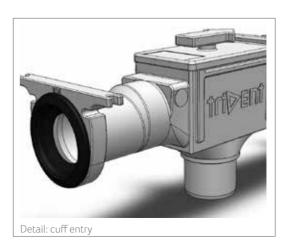




DELIVERY

Product consists of: filter housing, filterbox, rubber cuff, Trident filter grill and installation instructions.

Art nr	NAME	PG
401126	Trident 150 basement filter	2
401151	Nozzle set for Trident 150, 325 and 450 tank filter	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401157	Fine filter bag	2
401162	Trident 150 click connection set 110 mm	2
401158	Backflow alarm for Trident filters	2
401165	Check valve for Trident 150 tank filter	2



TRIDENT CONE FILTER

Trident 150 cone filter with skimmer overflow and support assembly







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

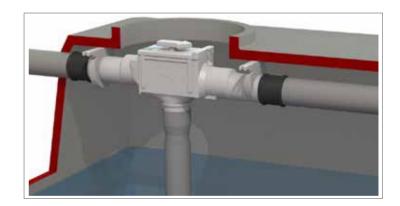
- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

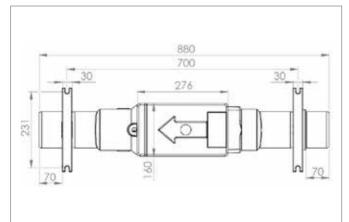
APPLICATION AREA

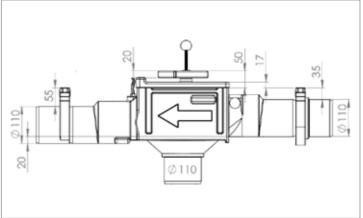
The Trident cone filter is supposed to be attached to the cover plate in a rain water borehole. The Trident cone filter is suitable for filtering rain water from roofs of homes or buildings with a roof surface up to 150 m2 (based on 300 litres/sec/ha). Has a connecting diameter of Ø 110 and is provided with mounting brackets. The Trident cone filter must be built into a rain borehole and is, as such, not resistant to soil pressure. The filter box is detachable for the purpose of inspecting the filter plate.

TECHNICAL DATA

Height in mm: 335 Width in mm: 231 Length in mm: 880 Height difference of the supply in mm: 20 Connection waste water in/out in mm: Ø110 Clean water out in mm: Ø110 Weight in kg: ca. 3,2 Opening with cover in cm: 27 x 16 Material housing: PΕ Material filter grid: RVS Connection filter cleaner (optional): 1/2"









Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle (see 1).

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of $150\,\mu m$. This fine filter can be used in places where high demands are placed on the water quality. (see 2)

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes (see 3).

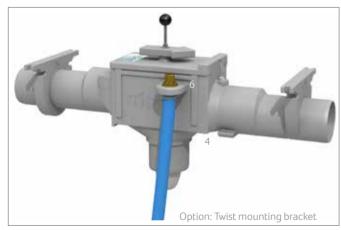
Rat valve stainless steel

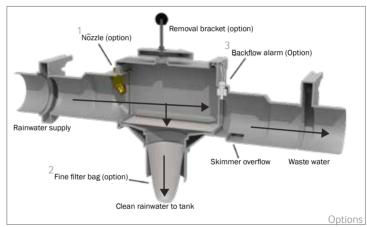
Stainless steel rat valve can be used in the Trident 150 and 325 tank filter. be edited. Prevents ingress of vermin from the overflow to sewer or surface water.

Twist mounting bracket

The filter can be supplied with a bracket for mounting a floating suction.

TECHNICAL OVERVIEW





DELIVERY

 $Product\ consist\ of:\ filter\ housing,\ filterbox,\ Trident\ filter\ grill\ with\ removal\ bracket\ and\ installation\ instructions.$

Art nr	NAME	PG
401127	Trident 150 cone filter with skimmer overflow	2
401131	Trident 150 cone filter with Twist mounting bracket	2
401151	Nozzle set for Trident 150, 325 and 450 tank filter	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401157	Fine filter bag	2
401158	Backflow alarm for Trident filters	2
401369	Removal bracket for filterbox	2
401162	Trident 150 click connection set 110 mm	2
401165	Check valve for Trident 150 tank filter	2



TRIDENT SIPHON FILTER

Trident siphon filter with skimmer overflow and retention siphon







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

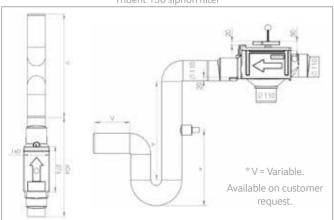
APPLICATION AREA

The siphon filter is intended to combine rain water usage and retention (temporary buffering) in a rain water tank. The Trident siphon filters are suitable for filtering rain water from roofs of homes or buildings with a roof surface up to 325 m2 (based on 300 litres/sec/ha). There are 2 different types available that distinguish themselves by their connection diameter of Ø 110 or Ø 125. The filters must be built into a rain borehole or attached to a top unit between the supply and discharge of a rain borehole. The Trident siphon filter must be installed in a rain borehole or attached to a top unit and is, as such not resistant to soil pressure. The filter box is detachable for the purpose of inspecting the filter plate.

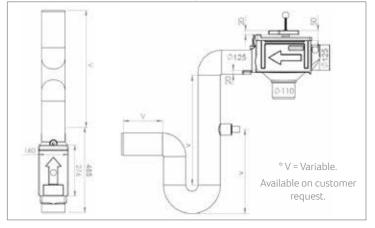
TECHNICAL DATA	150	325
Height in mm:	335	335
Width in mm:	160	160
Length in mm:	608	485
Height difference of the supply in mm:	20	20
Connection waste water in/out in mm:	Ø110	Ø125
Clean water out in mm:	Ø110	Ø110
Weight in kg:	ca. 5.2	ca. 5.2
Size of cover in cm:	27 x 13	27 x 13
Material housing:	PE	PE
Material filter grid:	RVS	RVS
Connection filter cleaner (optional):	1/2"	1/2"



Trident 150 siphon filter



Trident 325 siphon filter





Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle (see 1)

Automatic time-controlled filter cleaner 1/2 "

 $\label{thm:controlled} Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.$

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of $150\,\mu m$. This fine filter can be used in places where high demands are placed on the water quality. (see 2)

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes (see 3).

Rat valve stainless steel

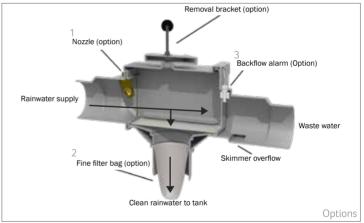
Stainless steel rat valve can be used in the Trident 150 and 325 tank filter. be edited. Prevents ingress of vermin from the overflow to sewer or surface water (see 4)

Check valve for Trident 150 tank filter

Valve to place behind the filter in the drain. Plug-in model, suitable for 110 mm pipe pieces. Reduced the risk of backstopping from the overflow towards the tank. Material polypropylene black, provided of flexible rubber lining.

TECHNICAL OVERVIEW





DELIVERY

Product consist of: filter housing, filterbox, Trident filter grill with removal bracket, siphon, connection for retention hose and installation instructions.

Art nr	NAME	PG
401128	Trident 150 siphon filter with skimmer overflow	2
401129	Trident 325 siphon filter with skimmer overflow	2
401151	Nozzle set for Trident 150, 325 and 450 tank filter	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401157	Fine filter bag	2
401158	Backflow alarm for Trident filters	2
401369	Removal bracket for filterbox	2
401165	Check valve for Trident 150 tank filter	2



TRIDENT FILTER UNDERGROUND

Trident 325 rainwater filter for underground installation







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

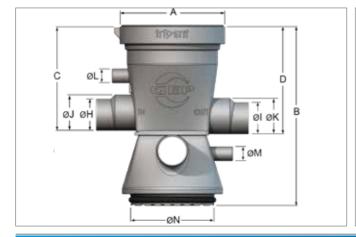
APPLICATION AREA

The Trident rain water filters are suitable for filtering rain water from roofs of homes or buildings with a roof surface up to 325 m2 (based on 300 litres/sec/ha). The filter must be placed in front of a rain borehole and is resistant to soil pressure (traffic class A). Between the supply of rain water and the discharge of the filtered rain water, there is a decline of 12 cm. With the optional decline reductive part this will be reduced to a mere

TECHNICAL DATA

Diameter cover A in mm:	365
Height B in mm:	620
Height C in mm:	360
Height D in mm:	371
Height E in mm:	485
Diameter OUT F/G in mm:	110
Diameter 1 IN H in mm:	110
Diameter 2 OUT I in mm:	110
Diameter 1 IN J in mm:	125
Diameter 2 OUT K in mm:	125
Height difference of the supply in mm:	11
Sleeve tube L in mm:	150
Suppletiebuis M in mm:	50
Diameter bodem N in mm:	290
Material housing:	PE
Material filter grid:	RVS
Connection filter cleaner (optional):	1/2"









Extension segment 75 cm for Trident 325 filter

Special extension shaft of 75 cm that can be mounted on the Trident 325 filter by use of a provided ring. The shaft can be shortened easily to equate the walkable cover with the ground, including pike pole. (see 1)

Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle (see 2).

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Decline reductive part DN 110

Decline reductive part reduces the height difference between supply and discharge filtered water from 12 cm to a mere 6 cm. (see 4)

Adapter ring to place Trident 325 filter onto a shaft With a 315 mm adapter ring the filter will fit onto a vertical tube of 315 mm for, for instance a water bag or infiltration facility. (see 3)

Trident tank adapter shaft to DN 600

This shaft already has a height of 60 cm and can be shortened easily. As such, all covers of the trident tank will fit onto this filter.

TECHNICAL OVERVIEW







DELIVERY

Product consist of: filter housing, Trident filter grill with removal bracket, walkable cover and installation instructions.

ORDER DETAILS

Art nr	NAME	PG
401101	Trident 325 filter underground	2
401159	Extension shaft 75 cm for Trident 325 filter	2
401153	Nozzle for trident 325 rainwater filter	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401160	Reducing connector DN 110	2
401161	Fitting ring to place Trident 325 filter on a shaft	2
403525	Varitank gradient shaft to DN600	2

Wide range of covers available, see Varitank covers from GEP.



THE VARITANK (FILTER) SHAFT

Unique and innovative shaft system for tanks and wells









PRODUCT DESCRIPTION

GEP has developed a unique filter shaft; the 'Trident tank filter shaft'. The filter shaft is applicable for all tanks made of plastic and concrete rain water boreholes of GEP. The concept is the result of 15 years of engineering, recruiting and practical experience.

The unique Trident tank filter shaft of GEP has the following properties and advantages:

- The Trident tank filter shaft scoveres over the synthetic manhole of the tank or concrete pit and is mounted with rubber grommets to realise an optimal sealing. It is a simple and time-saving solution, making the usage of kit, welds or mortar something of the past.
- The sawable and telescopic shafts will instantly prove to be beneficial! The laborious placing of and/or masonry work on a manhole is no longer required. These shafts can be sawn or raised in no time.
- In addition, the shaft can be rotated against the tank, due to which fewer connection pieces are required.
- The shafts are extendable with extra connections, that can be quickly and easily applied.
- The cover is, subsequently, telescopic compared to the inner shaft. This
 way the cover can be precisely equated to the ground level. This can also
 be done at a later stage of the construction, when ultimately the garden
 is being created. This again will save you some fitting pieces, thus time
 and money.
- The cover set is rotatable against the shaft and the tank. During finishing applying grouting in paving, the joints can thus always be followed perfectly. This can also be lightly tilted to realise a perfect finish on slopes.

In short: the 'Trident tank filter shaft' with accompanying covers offers a telescopic, rotatable and extendable option that can be shortened. The extensive assortment of fitting covers offers an "invisible" and childproof covering for any situation.

VARITANK

The unique variable (filter) shaft system

- Rotatable
- Sawable
- Telescopic
- Childproof
- Wide range of rotatable covers

DIFFERTENT VARITANK SHAFTS







Varitank filter 450



Varitank filter 1650



Shaft extension

PRACTICAL EXAMPLES







THE VARITANK (FILTER) SHAFT

Very easy and quick to place





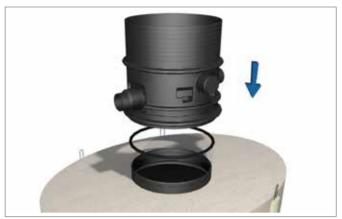
1. Each Varitank has a plastic manhole with tank collar.



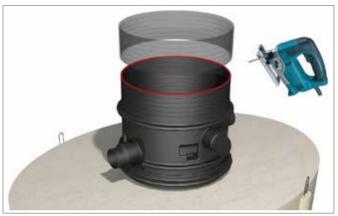
3. Shaft is rotatable relative to the tank.



5. Quick assembly with cuff connections.



2. Varitank (filter) shaft scoveres over the tank collar.



4. Shaft is easy to shorten.



 $\,$ 6. The shafts can be raised with optional shaft extension.

PRACTICAL EXAMPLES







VARITANK COVERS

A suitable and (child) safe cover for every Varitank

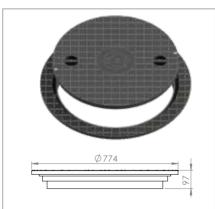






403433 Trident tank cover set round, garden cover with tap.

The synthetic cover is loadable for light traffic up to 600 kg of wheel load. Is fitted with a small cover with a tap with connection for garden hose. Fitted with childproof fasteners, and anti-slip profile. Set includes 10 cm telescopic shaft and grommet.



403419 Trident tank cover set round, PE 600 kg wheel load loadable.

The synthetic cover is loadable for light traffic up to a wheel load of 600 kg. Cover is round and fitted with anti-slip profile. The cover is fitted with childproof fasteners. Is delivered including 10 cm telescopic shaft and grommet.



 $403423\,$ Trident tank cover set square PE in concrete framework class B.

Cover set is traffic class B (passenger car) loadable and fitted with anti-slip profile. The synthetic cover fits in a concreted square framework. This offers a socover base that can be positioned aesthetically parallel to the joints in the pavement.



403415 Trident tank cover set square PE class B. Cover set is traffic class B (passenger car) loadable and fitted with anti-slip profile. The cover is square and fits into a square framework. As such, the surrounding pavement can be applied quickly, easily and neatly. Is delivered including 20 cm telescopic shaft and grommet.

Art nr	NAME	PG
403433	Varitank cover set round, garden cover with tap	3
403419	Varitank cover set round, PE 600 kg wheel load taxable	3
403423	Varitank cover set square PE in concrete frame class B	3
403415	Varitank cover set square PE class B traffic	3

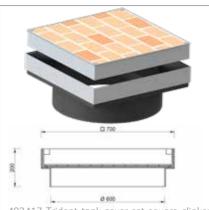


VARITANK COVERS

A suitable and (child) safe cover for every Varitank

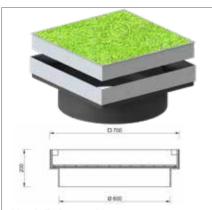






403417 Trident tank cover set square clinker cover.

The aluminium cover provides the ideal basis to "invisibly" process the cover into a clinker paving. The cover is square and fits into in a square framework. The inner framework offers room to clinkers up to 10 cm thick. Is delivered including 20 cm telescopic shaft and grommet.



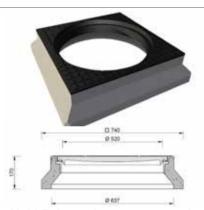
403418 Trident tank cover set square grass cover.

The aluminium grass cover provides the ideal basis to "invisibly" process the cover into a lawn. The cover is square and fits into a square framework. The inner framework offers room to the drainage plate, geotextiles and the grass. Is delivered including 20 cm telescopic shaft, grommet, drainage plate and geotextiles.



 $403428\ Trident$ tank cover set round, class D cast iron.

The cover set is entirely made of cast iron and provides a round frill with a hinged cover. The round frill telescopically fits onto the Trident tank shaft and is perfectly suitable to be processed into in a tarmac layer, the complete set is class D (heavy traffic) loadable.



403426 Trident tank cover set square class D400 + pressure distribution plate.

Round cast iron cover in square cover framework made of cast iron and concrete. Cover construction is traffic class D (heavy traffic) and fitted with an extra base frame made of concrete, which offer ultimate protection of the borehole against significant weight loads.

Art nr	NAME	PG
403417	Varitank cover set square, vowel cover	3
403418	Varitank cover set square, grass cover	3
403428	Varitank cover set around class D cast iron	3
403426	Varitank cover set square class D400 + pressure distribution plate	3



TRIDENT 1.650 FILTER

Trident box filter for underground installation







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

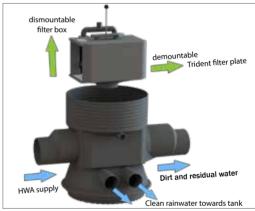
APPLICATION AREA

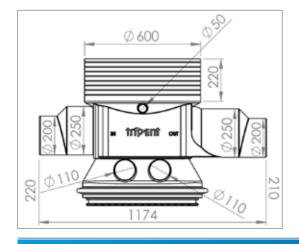
The Trident 1,650 rain water filters are intended to be placed in front of a tank or rain water borehole. The Trident rain water filters are suitable for filtering rain water from roofs of buildings with a roof surface up to 1,650 m² (based on 300 litres/sec/ha). The filter shall be placed in front of a rain borehole and is resistant to soil pressure (traffic class A). Between the supply of rain water and the discharge of the filtered rain water, there is a decline of 12 cm. With the optional decline reductive part this is reduced to 6 cm

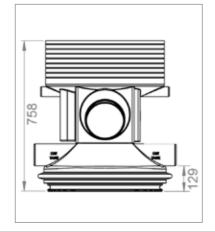
TECHNICAL DATA

Height in mm:	758
Width in mm:	1174
Length in mm:	760
Imports in mm:	200/250
Waste dirt in mm:	200/250
Height difference of the supply in mm:	12
Drain clean in mm:	2 x 110
Sleeve pipe in mm:	2 x 50
Weight in kg:	ca. 16
Material housing:	PE
Material filter grid:	RVS
Connection filter cleaner (optional):	1″













Trident 1.650 filter cleaner connectionset

The filter cleaner connectionset consist of a PE mountingset for the connection between filter box and the filter shaft. The box remains removable.

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Varitank inner shaft 60 cm

The shaft with seal ring can be mounted on the filter shaft. The shaft can be easaly shortened. In this way every Varitank cover can made on the desired height, equated to the ground level.

Removal bracket for filter box

The removal bracket for the filter box is the solution if the filter is fitterd far below ground level. Easy and fast removal of the filter box.

Decline reductive part DN 110

Decline reductive part reduces the height difference between supply and discharge filtered water from 12 cm to a mere 6 cm.

Varitank cover set

For every Varitank filter is a wide range of covers available in traffic class A, B en D. See the special Varitank cover pages to choose your suitable cover.

TECHNICAL OVERVIEW





DELIVERY

Product consist of: filter housing, filterbox, Trident filter grill, pre-mounted filter sprayers and installation instructions.

ORDER DETAILS

Art nr	NAME	PG
401212	Trident 1.650 filter with filter box	4
401213	Trident 1.650 nozzle connection set	4
401251	Automatic time-controlled filter cleaner 1"	4
403512	Varitank inner shaft 60 cm	3
401369	Removal bracket for filter box	2
401160	Expiration of reduction piece DN 110	2

Wide range of covers available, see Varitank covers from GEP.



VARITANK FILTER 150/325

Filter shaft with Trident filter technology for 325 m² of roof surface









PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

APPLICATION AREA

The Trident tank filter is suitable for filtering rain water from roofs of homes or buildings with a roof surface up to $325\,\mathrm{m}^2$ (based on $300\,\mathrm{litres/sec/ha}$). There are different tanks which the Trident tank filter is suitable for; the blueline, flatline, neo-line and flexo-line tanks. The filter shaft is applied to the synthetic frill of the borehole and sealed with a rubber ring. The shaft is $360\,\mathrm{degrees}$ rotatable to ease the connection of the pipe system and can be shortened at any height or raised by use of the PE shaft extension. The decline between the supply and discharge of the filtered rain water is $40\,\mathrm{mm}$.

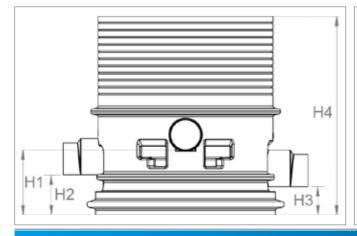
VARITANK

The unique variable (filter) shaft system

- Rotatable
- In short
- Telescopic
- Child safe
- · Wide range of swivel covers

TECHNICAL DATA

Height H1 in mm:	223
Height H2 in mm:	137
Height H3 in mm:	97
Height H4 in mm:	450-600
Weight in kg:	20
Connection waste water in/out in mm:	110/125
Connection of casing pipe in mm:	2x 110
Manhole Ø in mm:	600
Max. roof area in m ² :	325
Height difference of the supply in mm:	40
Material housing:	PE
Material filter grid:	RVS







Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle.

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of 150 μ m. This fine filter can be used in places where high demands are placed on the water quality. (see 2)

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes (see 2).

Varitank shaft extension 60 cm

The shaft extension with seal ring can be mounted on the filter shaft. The shaft can be easaly shortened. In this way every Varitank cover can made on the desired height, equated to the ground level.

Check valve for Trident 150 tank filter

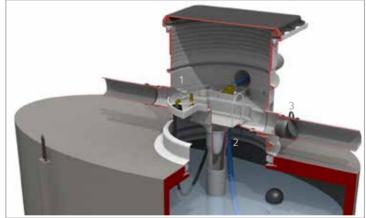
Valve to place behind the filter in the drain. Plug-in model, suitable for 110 mm pipe pieces. Reduced the risk of backstopping from the overflow towards the tank. Material polypropylene black, provided of flexible rubber lining.

Varitank cover set

For every Varitank filter is a wide range of covers available in traffic class A, B en D. See the special Varitank cover pages to choose your suitable cover.

TECHNICAL OVERVIEW





DELIVERY

Product consist of: filter shaft with 4 connections, child-resistant filter dish equipped with m13 closures, Trident 150 filter plate, gentle supply, PVC scovering piece, rubber sealing ring of 25 mm, including lubricant, 6x push in rivet and assambly manual

Art nr	NAME	PG
401130	Varitank filter 150/325	3
401152	Nozzle connection set for Varitank filter 150/325	2
401155	Automatic time-controlled filter cleaner 1/2"	2
401157	Fine filter bag	2
401158	Backflow alarm for Trident filters	2
403512	Varitank inner shaft 60 cm	3
401165	Check valve for Trident 150 tank filter	2
Wide range o	f covers available, see Varitank covers from GEP.	



VARITANK FILTER 450

Filter shaft with Trident filter box for 450 m² roof surface









PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

APPLICATION AREA

The Trident tank filter is suitable for filtering rain water from roofs of homes or buildings with a roof surface up to 450 m² (based on 300 litres/sec/ha). There are different tanks which the Trident tank filter is suitable for; the blueline, flatline, neo-line and flexo-line tanks. The filter shaft is applied to the synthetic frill of the borehole and sealed with a rubber ring. The shaft is 360 degrees rotatable to ease the connection of the pipe system and can be shortened at any height or raised by use of the PE shaft extension. The decline between the supply and discharge of the filtered rain water is 40 mm.

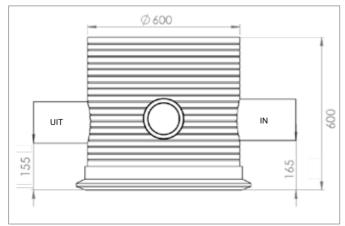
VARITANK

The unique variable (filter) shaft system

- Rotatable
- In short
- Telescopic
- Child safe
- Wide range of swivel covers

TECHNICAL DATA

Height in mm:	600
Height IN mm:	165
Height OUT mm:	155
Weight in kg:	20
Connection IN in mm:	160
Connection UIT in mm:	160
Connection of casing in mm:	2x 110
Manhole Ø in mm:	600
Max. roof area in m ² :	450
Height difference of the supply in mm:	39
Material housing:	PE
Material filter grid:	RVS
Connection filter cleaner (optional):	1/2"







Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle.

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Fine filter bag

The fine filter bag can be placed under the Trident filter plate. The fine filter bag filters very finely to a mesh size of $150\,\mu m$. This fine filter can be used in places where high demands are placed on the water quality.

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes.

Varitank shaft extension 60 cm

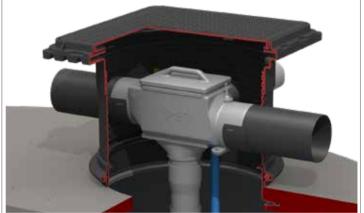
The shaft extension with seal ring can be mounted on the filter shaft. The shaft can be easaly shortened. In this way every Varitank cover can made on the desired height, equated to the ground level.

Varitank cover set

For every Varitank filter is a wide range of covers available in traffic class A, B en D. See the special Varitank cover pages to choose your suitable cover.

TECHNICAL OVERVIEW





DELIVERY

Product consists of: filter shaft with 4 connections, filter box fitted with cover, Trident filter plate with removal bracket, gentle supply, PVC scovering piece, rubber sealing ring of 25 mm, including lubricant, 6x push in rivet, two snap connections (preinstalled), two clamping strips with Velcro and assembly manual.

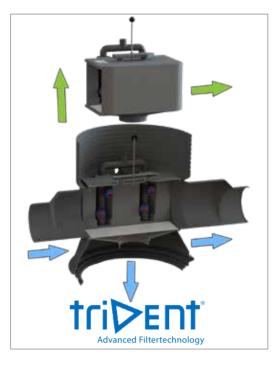
	Art nr	NAAM	PG	
	401168	Varitank 450 filterschacht	3	
	401152	Nozzle connection set 150,325 and 450	2	
	401155	Automatic time-controlled filter cleaner 1/2"	2	
	401157	Fine filter bag	2	
	401158	Backflow alarm for Trident filters	2	
	403512	Varitank inner shaft 60 cm	3	
Wide range of covers available, see Varitank covers from GEP.				



VARITANK FILTER 1.650

Filter shaft with Trident filter box for 1,650 m² roof surface









PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

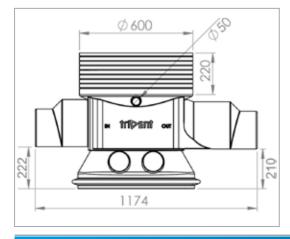
APPLICATION AREA

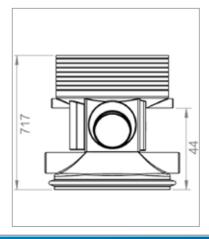
The Trident tank filter is suitable for filtering rain water from roofs of homes or buildings with a roof surface up to $1.650~\text{m}^2$ (based on 300~litres/sec/ha). There are different tanks which the Trident tank filter is suitable for; the blueline, flatline, neo-line and flexo-line tanks. The filter shaft is applied to the synthetic frill of the borehole and sealed with a rubber ring. The shaft is 360~degrees rotatable to ease the connection of the pipe system and can be shortened at any height or raised by use of the PE shaft extension. The decline between the supply and discharge of the filtered rain water is 40~mm.

TECHNICAL DATA

Height in mm: 717 Weight in kg: ca. 50 200/250 Input ø in mm: Discharge dirt ø in mm: 200/250 Height difference of the supply in mm: 12 Drain clean ø in mm: 2 x 110 Mantel tube ø in mm: 50 Material housing: PΕ Material filter grid: RVS Connection filter cleaner (optional): 1"











Nozzle set for Trident 150, 325 and 450 tank filter

Allows easy and automatic cleaning of the filter. The nozzle cleans the filter surface by means of water pressure via a special powerful brass cone nozzle

Nozzle set for Varitank 1.650 Trident filter

Allows easy and automatic cleaning of the filter. The set consists of filternozzle, fastening material, tubes for the connection between filtershaft and filter dish, so that the dish remains removable.

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean..

Varitank shaft extension 60 cm

The shaft extension with seal ring can be mounted on the filter shaft. The

shaft can be easaly shortened. In this way every Varitank cover can made on the desired height, equated to the ground level.

Removal bracket for filter box

The removal bracket for the filter box is the solution if the filter is fitterd far below ground level. Easy and fast removal of the filter box.

Backflow alarm for Trident filters

The filter can be equipped with an alarm sensor that flows back from the overflow signals. This alarm sensor can be connected on an IRM rainwater system that switches to drinking water as an alarm signal comes from the sensor. This will contaminate sanitary appliances, pump and pipes.

Varitank cover set

For every Varitank filter is a wide range of covers available in traffic class A, B en D. See the special Varitank cover pages to choose your suitable cover.

TECHNICAL OVERVIEW

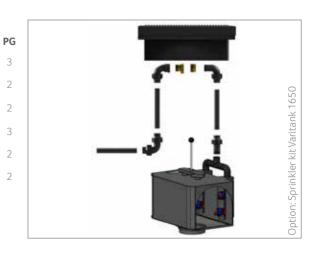




DELIVERY

Product consists of: filter shaft with 6 connections, filter box fitted with 4 filter washers, Trident 1650 filter plate, 2x gentle supply, 2x PVC scovering piece, rubber sealing ring of 25 mm including lubricant, 12x push in rivet and assembly manual.

Art nr	NAAM
401214	Varitank1.650 Trident filter with filter box
401213	Nozzle connection set 1.650
401251	Automatic time-controlled filter cleaner 1"
403512	Varitank inner shaft 60 cm
401369	Removal bracket for filter box
401158	Backflow alarm for Trident filters
Wide rang	je of covers available, see Varitank covers from GEP.



TRIDENT INDUSTRY FILTERS

Rainwater filters for roof areas from 2,000 to 10,000 m²







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

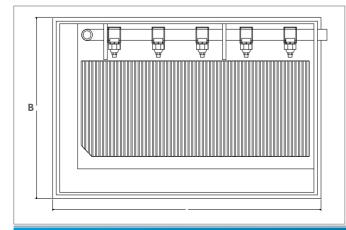
With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

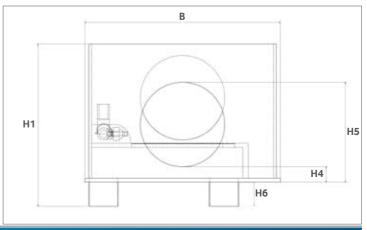
- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

APPLICATION AREA

The Trident industry filters are intended for installation in a rain water borehole, water cellar or basin. The Trident industry filters are suitable for filtering rain water from roofs of buildings with a roof surface up to 10,000 $\,$ m² (based on 300 litres/sec/ha). Larger models available on request.

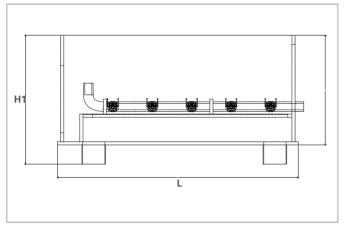
TECHNICAL DATA	Trident 2.000	Trident 3.000	Trident 6.000	Trident 10.000
Lengthe L in mm:	850	1.100	1.570	2.150
width B in mm:	700	700	570	700
Height H1 in mm:	555	590	700	835
Height H2 in mm:	126	126	126	126
Height H3 in mm:	380	446	530	631
Height H4 in mm:	25	25	25	25
Height H5 in mm:	279	345	429	5
Height H6 in mm:	105	105	85	85
Height difference to the drain in mm:	101	101	101	101
Spray pipe connection:	1"	1"	1"	1"
Number of nozzles:	4	5	7	8
Minimale debiet sproeiers in L/min:	57	69	97	125
Minimum flow rate nozzles in L / min:	Ø 250	Ø 315	Ø 400	Ø 500
Connection from clean water 3 in mm:	4 x Ø110	4 x Ø110	6 x Ø110	8 x Ø110
Weight in kg:	ca. 32	ca. 39	ca. 47	ca. 74
Connection of clean water DN4 in mm * * Connection must be milled open	Ø200	Ø250	Ø315	Ø400

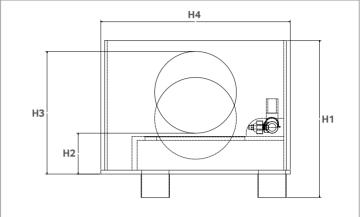






TECHNICAL DRAWING





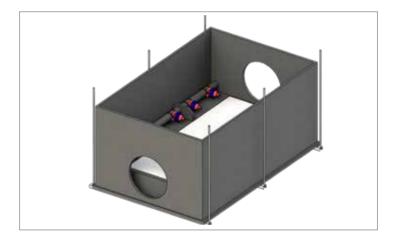
OPTIONS

Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

Connection set Trident filter bucket

The connection set consists of a pre-connected flexible hose with a 1" 3-piece connection. The 1" pipe from the building can be mounted to it directly. (see 1).



DELIVERY

Product consist of: filter housing with connection for water pipe, Trident filter plate, pre-assembled filter nozzles and assambly manual

Art nr	NAAM	PG
401202	Trident 2.000 filter including nozzles	4
401203	Trident 3.000 filter including nozzles	4
401204	Trident 6.000 filter including nozzles	4
401205	Trident 10.000 filter including nozzles	4
401251	Automatic time-controlled filter cleaner 1"	2
401253	Connection set Trident filter tray	4



TRIDENT INDUSTRY FILTER WELL

Filter pits with pre-assembled Trident industry filter







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

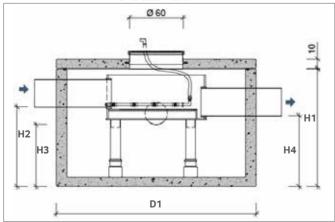
APPLICATION AREA

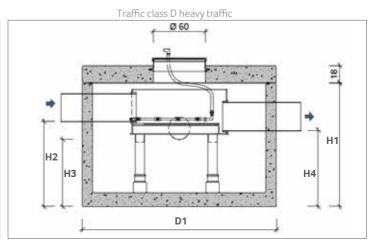
The Trident industry filter pits are intended to be installed underground. The Trident industry filters are suitable for filtering rain water from roofs of buildings with a roof surface up to $10,000~\text{m}^2$ (based on 300~litres/sec/ha). The Trident industry filter is delivered ready made in a concrete pit. The filter pits come in traffic class B or D. The concrete filter pits are fitted with a round Trident tank manhole of 600~mm.

TECHNICAL DATA	Trident	2.000	Triden	t 3.000	Trident	6.000	Trident	10.000	
Max. roof area in m ² :	2.0	00	3.0	000	6.0	00	10.0	000	
Max. flow in liters / second:	60)	9	0	18	30	30	00	
Flow nozzles in liters / minute:	57	7	6	9	9	7	12	25	
In & outlet in mm:	Ø2	50	Ø 3	315	Ø 4	.00	Ø 5	00	
Exhaust clean water in mm:	Ø2	00	Ø 2	250	Ø3	15	Ø 4	-00	
DIMENSIONS	Triden	Trident 2.000		Trident 3.000		Trident 6.000		Trident 10.000	
DIMENSIONS	Class B	Class D							
D1 Diameter in cm:	Ø 214	Ø 224	Ø 214	Ø 224	Ø 214	Ø 224	Ø 264	Ø 274	
H1 Height fairing in cm:	131	136	131	136	131	136	165	171	
H2 Input to soil in cm:	93	98	89	94	75	80	78	86	
H3 Filtered rainwater with respect to	73	78	69	74	55	60	49	57	
soil in cm:	83	88	79	84	65	70	68	76	
H4 Output compared to soil in cm:									
Height difference to the drain in mm:	101	101	101	101	101	101	101	101	
Height cover plate class	10 cm	18 cm							

TECHNICAL DRAWING

Traffic class B cars







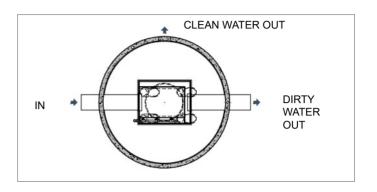
Automatic time-controlled filter cleaner 1/2 "

Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.

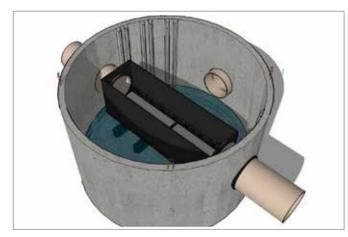
Connection set Trident filter bucket

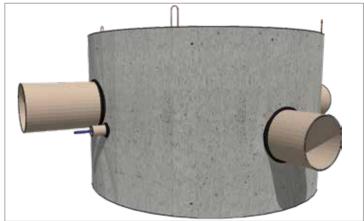
The connection set consists of a pre-connected flexible hose with a 1" 3-piece connection. The 1" pipe from the building can be mounted to it directly. (see 1).

Wide range of covers available, see Varitank covers from GEP.



TECHNICAL OVERVIEW





DELIVERY

Product consists of: concrete pit with built-in Trident filter, cover plate fitted with manhole of 60 cm, centred. Cover plate shall be placed onto the tub on-site. Position of connection to filtered rain water can be chosen freely, if desired.

Art nr	NAAM	PG
401206	Trident 2.000 filter well including nozzles class B	4
401207	Trident 3.000 filter well including nozzles class B	4
401208	Trident 6.000 filter well including nozzles class B	4
401209	Trident 10.000 filter well including nozzles class B	4
401221	Trident 2.000 filter well including nozzles class D	4
401222	Trident 3.000 filter well including nozzles class D	4
401223	Trident 6.000 filter well including nozzles class D	4
401224	Trident 10.000 filter well including nozzles class D	4
401251	Automatic time-controlled filter cleaner 1"	2
401253	Connection set Trident filter tray	4



TRIDENT INDUSTRY BASEMENT FILTER

Rainwater filters for indoors for roof areas from 2,000 to 10,000 m²







PRODUCT DESCRIPTION

Trident filters are a highly efficient dynamic rainwater filter, ensuring that a maximum volume of water passes through the filter and into the tank. The filter acts as the first step in the rainwater treatment process and has the capability to reduce the overall lifetime cost of the entire rainwater harvesting system.

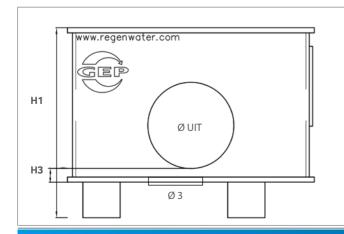
With a range of pre-tank filters and tank filters with skimmers, Trident filters are flexible to suit in almost any tank; improving tank life, reducing maintenance and capable of handling high volume harvesting needs.

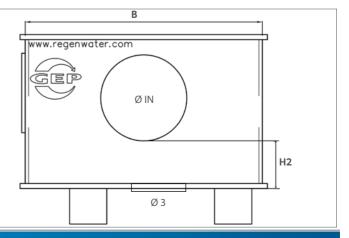
- +90% Efficiency 700μm
- Rapid separation of waste and clean water
- Dirt resistant and large effective filter grid
- Automatic cleaning reduces maintenance required
- Ideal for rainwater harvesting

APPLICATION AREA

The Trident industry cellar filter is intended to be mounted into a basin or water cellar. The Trident industry cellar filter is suitable for filtering rain water from roofs of buildings with a roof surface up to 10,000 m² (based on 300 litres/sec/ha). Larger models available on request. The Trident industry cellar filter for industrial construction shall be built-in inside or in front of a rain water cellar.

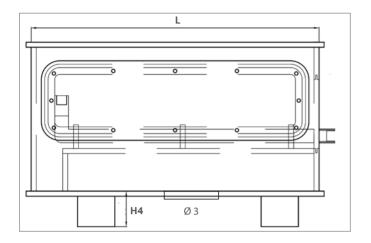
TECHNICAL DATA	Trident 2.000	Trident 3.000	Trident 6.000	Trident 10.000
Length L in mm:	850	1.100	1.570	2.150
Width in mm:	700	700	570	700
Height H1 in mm:	560	620	735	835
Height H2 in mm:	126	126	126	126
Height H3 in mm:	25	25	25	25
Height H4 in mm:	105	105	85	85
Height difference to the drain in mm:	101	101	101	101
Spray pipe connection:	1" bi	1" bi	1" bi	1" bi
Number of nozzles:	4	5	7	8
Minimum flow rate nozzles in I / min:	57	69	97	125
Connection IN / OUT in mm:	Ø 250	Ø 315	Ø 400	Ø 500
Connection OFF clean water in mm:	4 x Ø110	4 x Ø110	6 x Ø110	8 x Ø110
Weight in kg:	ca. 37	ca. 49	ca. 58	ca. 89
Connection from clean water * in mm: * Connection must be milled open.	Ø200	Ø250	Ø315	Ø400







TECHNICAL DRAWING



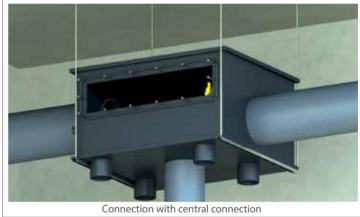
OPTIONS

Automatic time-controlled filter cleaner 1/2 "

 $\label{thm:controlled} Time-controlled filter cleaner makes automatic filter cleaning possible. The nozzle sprays the filter surface at freely adjustable times clean.$

TECHNICAL OVERVIEW





DELIVERY

Product consist of: filter housing, detachable side hatch, Trident filter plate, pre-assembled filter nozzles and assambly manual

Art nr	NAAM	
401270	Trident 2.000 Basement filter including nozzles	4
401271	Trident 3.000 Basement filter including nozzles	4
401272	Trident 6.000 Basement filter including nozzles	4
401273	Trident 10.000 Basement filter including nozzles	4
401251	Automatic time-controlled filter cleaner 1"	4



ACCESSORIES







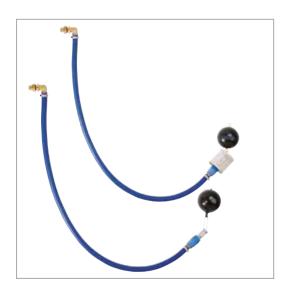
GENTLE SUPPLY

Product advantages

- high water quality, increases oxygen level
- protects pump, no re-suspension of sediment
- socover mounting base with dilated outflow
- full-flow
- ready-to-use component

Product specifications

Gentle supply prevents re-suspension of the sediments in the tank, due to which a biological balance of the water is safeguarded. Complies with DIN 1986 coupling connection: DN 110 Material: recyclable black



FLOATING INTAKE

Complete set for purpose of flexible floating intake in the tank. The set consists of a brass tank bushing with an extended screw thread to safeguard proper fixation. The hose has a pressed coupling to prevent air being sucked in. The float is constructed of one piece to avoid leakage. Available in models with 2 or 3 metres of hose.

In addition, there are two types of intake cages; the Twist and the Saff. The Twist has a coarse mesh size of 1 mm and the Saff a fine mesh size of 0.44 mm. Basically the Twist is intended for rain water systems with a Trident preliminary filter, while the Saff is intended for systems without preliminary filter. The special tank bushing with special flexible hose prevents frictions, so that water tightness remains safeguarded, even after many years.

APPLICATION AREA

When applying the floating intakes TWIST and SAFF, the water is drawn in at 15 cm below the water surface. That's where the purest water in a tank can be found. In case of low water level, the length of the hose prevents the intake cage from falling to the bottom



OVERFLOW SIPHON

Ready-to-use component in siphon form as an odour trap for the sewer. Siphon is applied extra deep to withstand dehydration. Sloping side of siphon prevents vortex formation in the tank. Siphon is fitted with a flap made of inox, against rats. Complies with DIN 1986. The siphon is also fitted with an electrical alarm unit in case of back flow from the sewer. This can be connected to IRM controls TEO, Rain manager and Hybrid. Technical specifications

Materiaal: zwart PE Steekmofverbinding: DN110 Spanning: 12V

TRIDENT FILTER ASSORTMENT

For every roof surface a Trident rainwater filter



Trident 150 tank filter Trident 150 tankfilter with skimmer-overflow Trident 150 box filter Trident 150 cone filter Trident 150 basement filter Trident 150 siphonfilter Trident 325 tankfilter with skimmer-overflow Trident 325 siphonfilter Trident 325 box filter Trident 325 filter underground Varitank filter 150/325 Trident 450 tank filter - No Limits -Varitank filter 450 Trident 1.650 Varitank filter 1.650 Trident industry basement filter 2.000 Trident industry filter 2.000 Trident industry basement filter 3.000 Trident industry filter 3.000 Trident industry basement filter 6.000 Trident industry filter 6.000 Trident industry basement filter 10.000 Trident industry filter10.000 Trident customization Maximum roof area in m² 2.000 4.000 6.000 8.000 10.000 100.000

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GEP offers a broad range of climate adaptive solutions for the reuse of water. Moreover, GEP continues where others stop: we consistently work on new products and systems to provide an innovative response to today's and tomorrow's ecological demands.

GEP Watermanagement

Over the past 20 years GEP Rain water has developed into a leading supplier of rain water systems. Our designs and products offer total solutions for environmentally sound decentralised water management. With our 3 branches in Belgium, Germany and The Netherlands we have found the optimal mix of knowledge transfer and product and market optimisation.



BELGIUM 15 Years

THE NETHERLANDS 20 Years

GERMANY 03 Years

GEP's Mission

GEP's ambition is to develop and supply systems for decentralised environmentally sound water management. In doing so we want to improve the quality of the water, reuse the water and prevent flooding. GEP wants to deliver sustainable, safe and source directed water system with and for our clients, where price, environment and savings form a perfect balance. This way GEP wants to make the disconnection and the usage of rain water accessible for everybody.

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Our activities and products.

Rainwater

Disconnection & infiltration

Wastewater

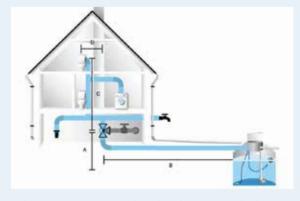
6 Greywater

Breaktanks

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Price list

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