



XR Pump Station



GRAF Australasia head office Perth (WA)



Production site in Teningen (Germany)

GRAF – Setting standards in quality

For over 50 years, Otto Graf GmbH has been offering high-class plastic products to its customers. In 1974, GRAF developed its first pioneering range of rainwater harvesting products. Today we offer the world's largest range of water management solutions across rainwater, wastewater, stormwater and trade waste.

High quality manufacturing

GRAF is continuously investing in its expansion across Australasia, where the demand for high quality, sustainable water management solutions grows increasingly important. Our new Australasian head office symbolises a dedication to the needs of our customers.

We have built an extensive network of dealers and technical support experts throughout Australia and New Zealand to ensure we provide outstanding accessibility and customer support.

Where quality comes first

To ensure consistent high product quality, you need optimised production processes and outstanding quality management. Every individual tank is checked for dimensional accuracy, wall thickness and weight.

All production parameters, e.g. material composition, machine settings and the staff involved in the production process, are documented for each individual product.

Our goal: your satisfaction

More than 100,000 satisfied customers already benefit from the advantages of GRAF's water management solutions.



AS/NZS 1546.1:2008



ISO 9001:2015





High Quality Manufacturing

Our products need to satisfy a huge number of different requirements, which is why GRAF is an expert in all the common procedures for manufacturing plastic products and has access to the optimum manufacturing process for each product.

Ecological products from the technology leader

GRAF uses state-of-the-art production facilities. This is the only way to guarantee superlative quality at attractive prices. GRAF broke new ground by using injection embossing to make the Carat underground tank.

To manufacture this tank, the company developed and constructed the world's largest injection moulding machine. This was a major breakthrough because the injection moulding process consumes up to 85% less energy than normal.

Durable and 100% recyclable

Right from the product development stage, GRAF attaches great importance to durable design. Long product lives ensure that fewer resources are used and the environmental impact is minimised. All products manufactured by GRAF are also 100% recyclable.

Responsible manufacturing

While GRAF's mission is to create products that help protect the environment, we make sure to stay true to this by ensuring we are manufacturing our products sustainably too.

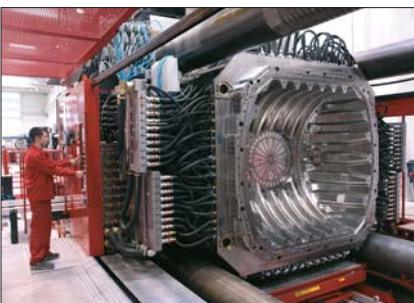
Sustainable production processes

Some products including our Carat tank are made from recycled materials, which proves to be yet another boost to the environmental credentials of the GRAF product range.

The heat generated during manufacturing is processed by a modern heat recovery system and is used to heat the production and logistics building.



Manufacturing certified according to ISO 50001



World's biggest injection moulding machine



Blow moulding process



Rotational moulding

The XR Packaged Pump Station

Telescopic lid shafts

- Telescopic shaft 140 - 440mm
- Lid sits flush with ground level
- 5 Degree tilt adjustment for slopes and driveways
- Child-proof lockable lids
- Sealing ring available for sewer applications



Multiple inlet ports and lifting lugs

- Stainless steel lifting lugs
- Multiple inlet ports
- 100 - 150mm inlet ports



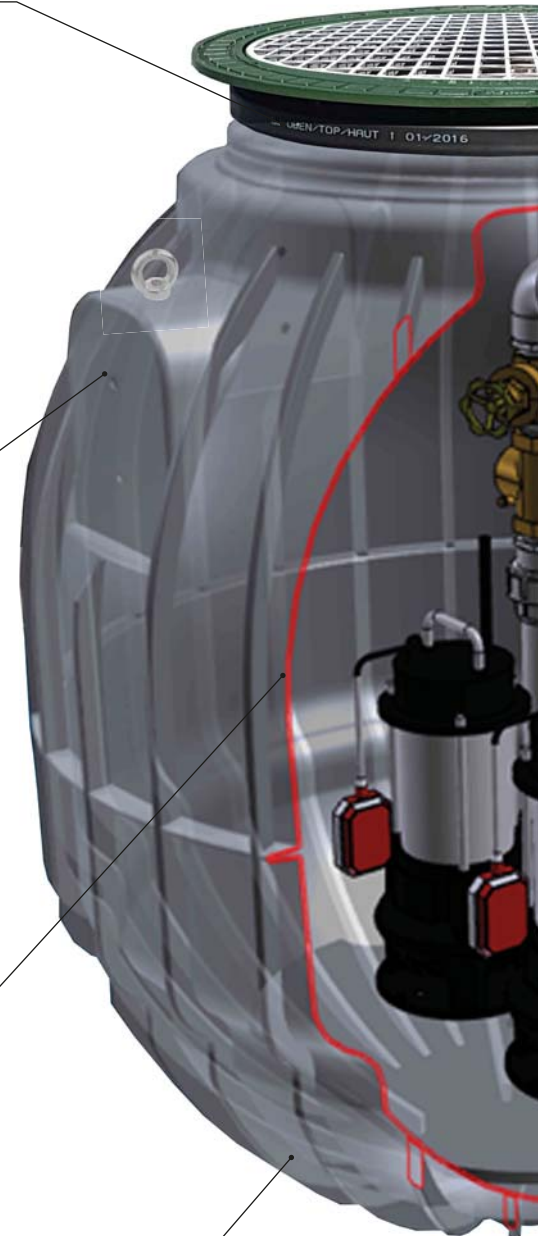
Ground water stable

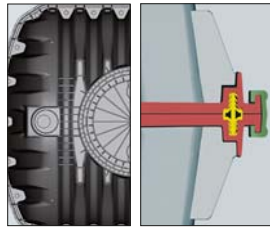
- Patented floatation resistant design
- Ground water stable up to 550mm from base



Fully assembled

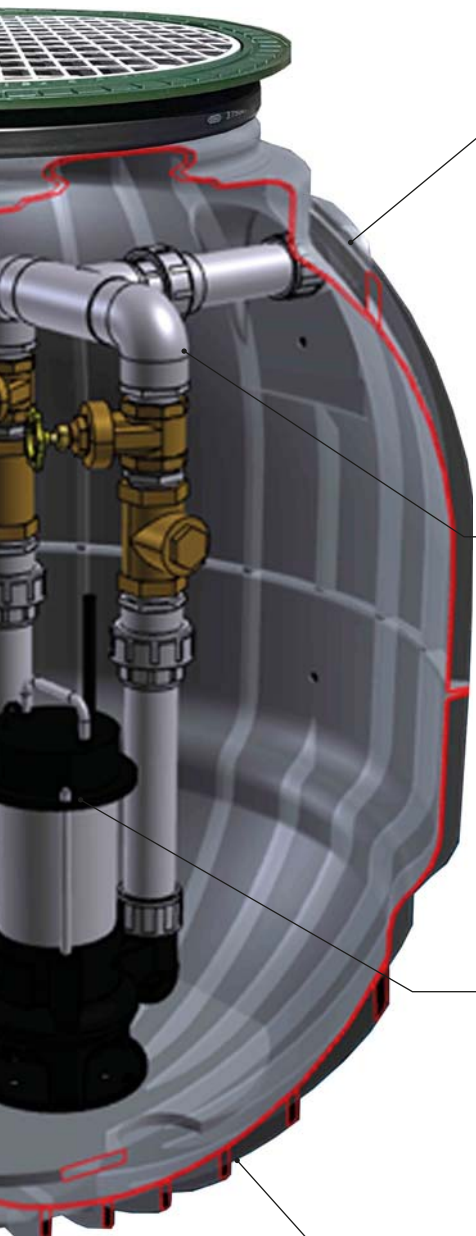
- Comes as a completed system
- Fully customisable
- Choose the tank, lid, pump and control equipment for your needs
- All parts sold separately





Ribbed design

- Structural ribbing reduces weight and allows easy vehicle loading
- Certified to AS/NZS 1546.1
- Award winning German design



Pre-packaged fittings

- Pre-assembled freestanding manifolds
- XL options available for Carat XL tank
- Incl. barrel unions, shut-off valves and non-return valves



Industry-leading Xylem pumps

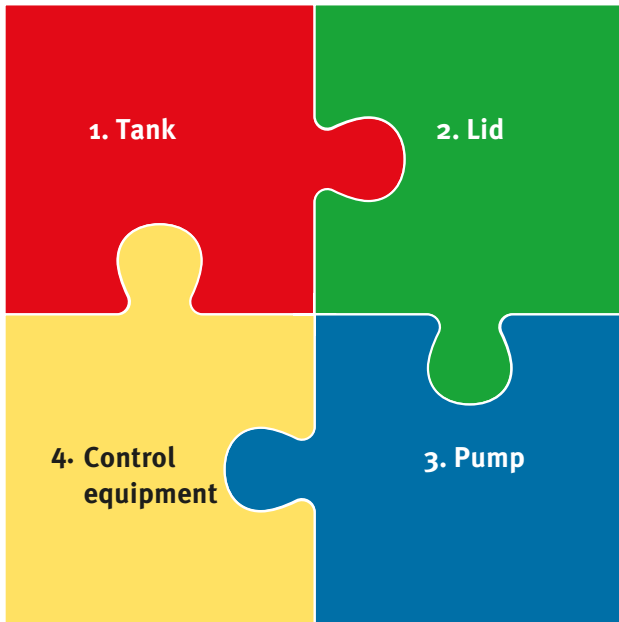
- Unparalleled performance and reliability
- Compact and lightweight
- Double mechanical seals
- Surface hardened shredder mechanism



High quality tanks

- Tank sizes ranging from 600L to 10,000L
- 15-year warranty
- No concrete anchoring required
- Assembled in Australia

The XR Pump station modular system



1. Tank

The Sapphire and Carat underground tanks are the basis for the modular system.



2. Lid

Would you like to install your tank in a trafficable area? From plastic to cast iron, GRAF offers you wide range of telescopic tank covers to suit your needs.



3. Pump

In partnership with Xylem, GRAF provides high quality pumps for either stormwater or wastewater applications. The pump package also includes the accessories needed for installation.



4. Control equipment

Are you looking for the best value solution on high-quality controller technology? GRAF's controller equipment gives you the freedom to choose how your pump station operates.

1. Tank

Sapphire tank 600 – 1,500 litres



Sapphire 600 L
Product Code. 1909447

Sapphire 900 L
Product Code. 1909448

Sapphire 1,200 L
Product Code. 1909449

Sapphire 1,500 L
Product Code. 1919564

Carat tank 2,700 – 6,500 litres



Carat 2,700 L
Product Code. 1909565

Carat 3,750 L
Product Code. 1909566

Carat 4,800 L
Product Code. 1909567

Carat 6,500 L
Product Code. 1909568

Carat XL 8,500 – 10,000 litres



Carat 8,500 L
Product Code. 1919567

Carat 10,000 L
Product Code. 1919568

2. Lid



Pedestrian lid
Product Code. 1908904



Solid lid - Class B
Product Code. 1909450



Grated lid - Class B
Product Code. 1909451



Cover is included, concrete ring to be completed on site

Solid lid - Class D
Product Code. 1909452



Cover is included, concrete ring to be completed on site


Grated lid - Class D
Product Code. 1909453




Extension riser
Product Code. 1908906

3. Pump


Stormwater



Stormwater pump 2 L/s @6m
Product Code. 1909563




Stormwater pump 5 L/s @6m
Product Code. 1909457




Stormwater pump 10 L/s @6m
Product Code. 1909564


Wastewater



Wastewater pump 3 L/s @6m
Product Code. 1909456




Wastewater pump 0.7 L/s @20m
Product Code. 1909627




Wastewater pump 0.5 L/s @40m
Product Code. 1909458

4. Control equipment

Single connection




Single manifold* XL available
Product Code. 1909454




Single pump controller
Product Code. 1909460

OR




High level alarm
Product Code. 1909459

Dual connection



Dual manifold* XL available
Product Code. 1909455



Dual pump controller
Product Code. 1909461

***Control equipment customisable to include:**

- SMS
- Battery backup
- BMS connectivity
- Generator changeover options
- XL manifolds

*Electrical installation and commissioning not supplied

Step 1: Choose your tank

The Sapphire tank

- ✓ Easy to transport
- ✓ Full watermark approval
- ✓ Suitable for vehicle loading
- ✓ Can be installed in groundwater
- ✓ Can be extended as required



1,500 L



1,200 L



900 L

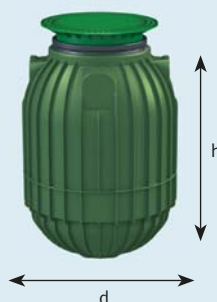


600 L

Dimensions

Volume	Diameter D	*Height H	*Weight	Product Code
600 L	1,125 mm	1,045 mm	27 kg	1909447
900 L	1,155 mm	1,345 mm	47 kg	1909448
1,200 L	1,155 mm	1,670 mm	58 kg	1909449
1,500 L	1,455 mm	1,980 mm	110 kg	1919564

*Excluding lid



Step 1: Choose your tank

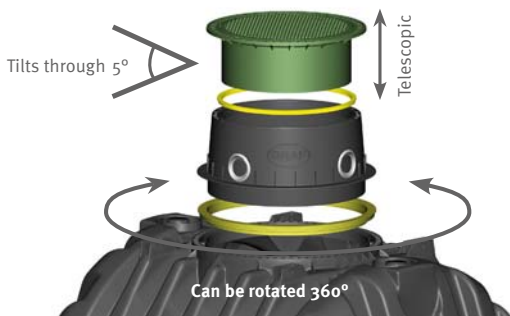
The Carat tank

- ✓ Easy to transport
- ✓ Suitable for vehicle loading
- ✓ Can be installed in groundwater
- ✓ No concrete anchoring required
- ✓ Can be extended as required



The tank that turns its head for you

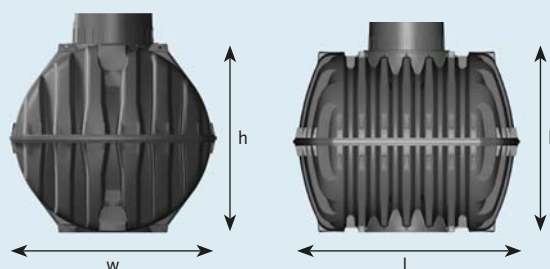
- Rotating tank dome
- Simple adaptation to ground level
- Includes lip seals as standard
- Unique stability and precision fit
- Suitable for vehicle loading
- Sealed up to ground level
- Extension risers available to adjust depth



Dimensions

Volume	Width W	Length L	*Height H	*Weight	Product Code
2,700 l	1,565 mm	2,080mm	1,400 mm	120 kg	1909565
3,750 l	1,755 mm	2,280 mm	1,590 mm	150 kg	1909566
4,800 l	1,985 mm	2,280 mm	1,820 mm	185 kg	1909567
6,500 l	2,190 mm	2,390 mm	2,100mm	220 kg	1909568
8,500 l	2,040 mm	3,500 mm	2,085 mm	380 kg	1919567
10,000 l	2,240 mm	3,520 mm	2,285 mm	455 kg	1919568

*Excluding lid



Step 2: Choose your lid



Pedestrian lid



- Suitable for pedestrian loading
- Adjustable 140mm to 340mm
- Maximum 150kg loading
- 5 degree tilt
- Lockable 600mm manhole

Product Code. 1908904

Extension riser



- Optional extension riser ideal for use in areas of low stormwater or sewer pipework
- Adjustable to max of 300 mm
- Can use a max of 2 risers

Product Code. 1908906



Grated lid - Class B



- Fully galvanised grate
- Trash prevention accessories available
- Suitable for surface water
- Adjustable 140mm - 440mm
- Allows full access
- Lockable 600mm manhole

Product Code. 1909451



Solid lid - Class B



- Heavy duty cast iron lid
- Suitable for vehicle loading
- Max load "B" 3.5 tonnes
- Adjustable 140mm - 440mm
- 5 degree tilt
- Lockable 600mm manhole

Product Code. 1909450



Grated lid - Class D



- Fully galvanised grate
- Trash prevention accessories available
- Suitable for surface water
- Adjustable 140mm - 440mm
- Allows full access
- Lockable 600mm manhole
- Cover included, concrete ring to be completed on site

Product Code. 1909453



Solid lid - Class D



- Heavy duty cast iron lid
- Suitable for vehicle/truck loading
- Max load "D" 8 tonnes
- Adjustable 140mm - 440mm
- 5 degree tilt
- Lockable 600mm manhole
- Cover included, concrete ring to be completed on site

Product Code. 1909452



Pedestrian lid suitable for pedestrian loading



Solid lid suitable for vehicle/truck bearing- grated options available

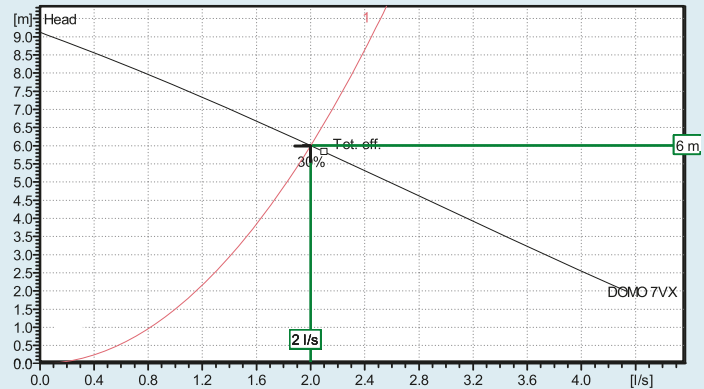
Step 3: Choose your pump

Stormwater pumps

Stormwater pump 2 L/s @6m



Product Code. 1909563

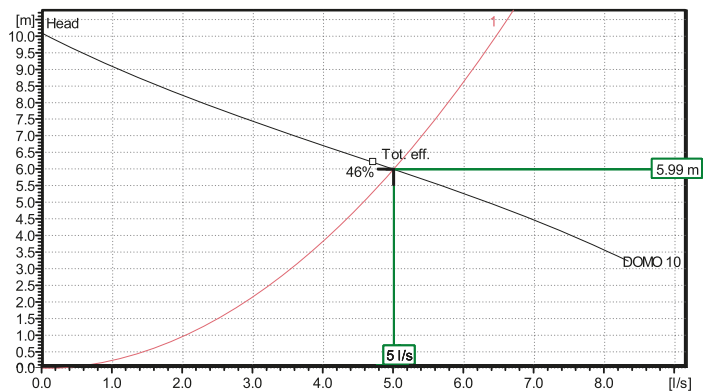


- Single phase*
- Voltage: 230V
- Medium flow pump for stormwater applications
- 2 L/s@6m
- IP Rating: 68
- Solids handling: 35mm
- Current: 3.94A
- Power Rating: 0.55kW
- Cable length: 10m

Stormwater pump 5 L/s @6m



Product Code. 1909457

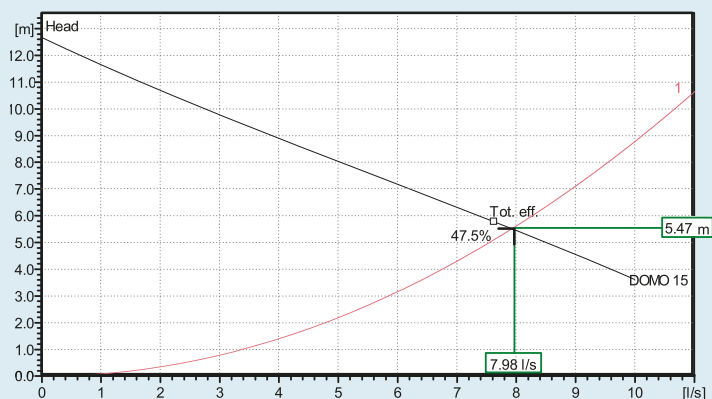


- Single phase*
- Voltage: 230V
- High flow pump for stormwater applications
- 5 L/s@6m
- IP Rating: 68
- Solids handling: 35mm
- Current: 5.84A
- Power Rating: 0.75kW
- Cable length: 10m

Stormwater pump 10 L/s @6m



Product Code. 1909564



- Single phase*
- Voltage: 230V
- High flow pump for stormwater applications
- 8 L/s@6m
- IP Rating: 68
- Solids handling: 24mm
- Current: 7.02A
- Power Rating: 1.1kW
- Cable length: 10m

*Pump specifications based on single phase system, three phase pumps available on request

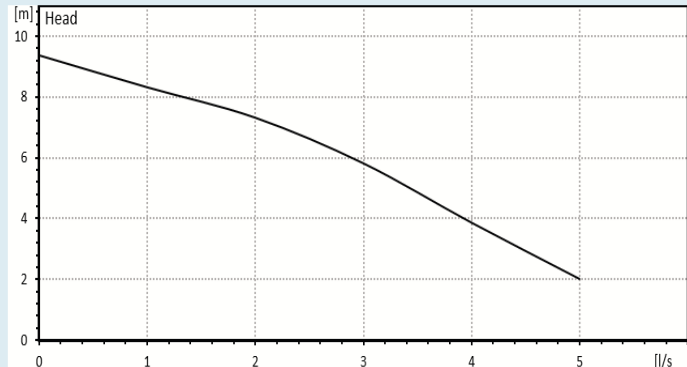
Step 3: Choose your pump

Wastewater pumps

Wastewater pump 3 L/s @6m



Product Code. 1909456

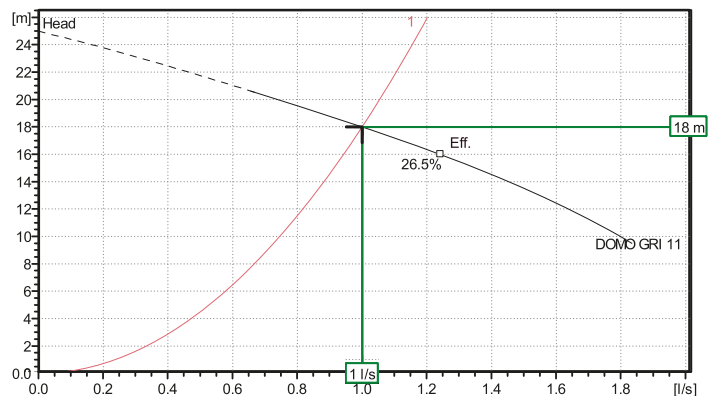


- Single phase*
- 3 L/s@6m
- Current: 6.5A
- Voltage: 230V
- IP Rating: 68
- Power Rating: 0.75kW
- Cutter pump for medium sewer applications
- Cable length: 10m

Wastewater pump 0.7 L/s @20m



Product Code. 1909627



- Single phase*
- 0.7 L/s@20m
- Current: 6.84A
- Voltage: 240V
- IP Rating: 68
- Power Rating: 1.1kW
- Grinder pump for medium sewer applications
- Cable length: 10m

Wastewater pump 0.5 l/s @40m



Product Code. 1909458



- Single phase*
- 0.5 L/s@40m
- Current: 6.1A
- Voltage: 220V
- IP Rating: 68
- Power Rating: 0.9kW
- High head pump for pressure sewer applications
- Cable length: 10m

*Pump specifications based on single phase system, three phase pumps available on request

Step 4: Choose your control equipment

Manifold - Single



All freestanding manifolds come complete with fittings including:

- Barrell unions
- Non-return and shut-off valves
- Fitted into 50mm PVC pressure pipe

Standard Manifold: Product Code. 1909454

XL Manifold: Product Code. 1919565

Manifold - Dual



All freestanding manifolds come complete with fittings including:

- Barrell unions
- Non-return and shut-off valves
- Fitted into 50mm PVC pressure pipe

Standard Manifold: Product Code. 1909455

XL Manifold: Product Code. 1919566

Pump controller - Single



- Includes high level audio and visual alarm
- Circuit breaker protected
- Low voltage control and input circuitry
- Lockable main isolator
- IP65 weather proof metal enclosures

Product Code. 1909460

Pump controller - Dual



- Ability to control 2 pump stations
- Includes high level audio and visual alarm
- Circuit breaker protected
- Low voltage control and input circuitry
- Lockable main isolator
- IP65 weather proof metal enclosures

Product Code. 1909461

High level alarm



- Provides warning indication when tank storage is either empty or full
- Warning condition determined by float switch
- Includes buzzer audio warning alarm and visual LED pilot light with mute button

Product Code. 1909459

Note:

- Pump controllers include high level alarm
- Manifolds are freestanding and do not include guide rails or brackets
- XL Manifolds required for Carat XL tank
- Optional extras for pump controllers include battery back up, generator connection and sms alarm messaging



Australia-wide support



Consultation

- Solution-oriented systems for rainwater, wastewater, stormwater and trade waste
- Interpretation and evaluation of alternative solutions for your requirements
- Short reaction times - just a few days from the first calculation to the quotation

Planning

- Specifications according to valid regulations and approvals
- Creation of flooding records
- Transmission of CAD and Revit drawings for site plans
- Support in the creation of drainage applications





Customer support

+1300 131 971

info@grafaustalia.com.au
www.grafaustalia.com.au

Specifications

+1300 131 971

specifications@grafaustalia.com.au
www.grafaustalia.com.au

Logistics

- Fast delivery time
- Low storage requirements on the construction site
- Low freight costs due to space-optimised and stackable products

On-site assistance

- Expert advice on individual solutions
- Discussions with helpful decision makers
- Quick and easy help with queries during installation



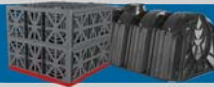


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RAINWATER HARVESTING



STORMWATER MANAGEMENT



WASTEWATER TREATMENT SOLUTIONS



TRADE WASTE



Stormwater Management

For more information about our Stormwater management solutions, ask for our catalogue.

Warranty Against Defect Clause:

The warranty stated in this document only applies to the respective tanks, pumps and controllers and does not include any other individual parts or accessories. GRAF's Sapphire and Carat tanks have a 15-year warranty, and pumps and controllers have a 1-year warranty. Within the warranty period, we replace material free of charge subject to our terms and conditions; additional services are excluded. The tank must be handled, assembled and installed according to the installation instructions in order for the warranty to apply. Please refer to our website for full Terms and Conditions.

For all indications of measurements in this brochure we reserve a tolerance of +/- 3%. The useful volume of the tanks may be up to 10% lower than the tank capacity, according to the connecting option.

Technical modifications and further development of the different products are subject to change. Errors excepted.

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