Benefits of the Carat System
Strong, User-Friendly and Better for the Environment

The Modular Carat System
Choose Your Tank Size (1,700 - 3,400 US-Gallons)

Carat, vehicle bearing underground tank
Designed to be used in conjunction with the vehicle loading telescopic dome shaft. The access dome is designed in accordance with German DIN testing. Up to 8 ton max. axle loading and 12 ton max. total weight.

Technical data

<table>
<thead>
<tr>
<th>Dimension/weight</th>
<th>1,700 US Gallons</th>
<th>3,400 US Gallons</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>94 inches</td>
<td>198 inches</td>
</tr>
<tr>
<td>Width</td>
<td>86 inches</td>
<td>172 inches</td>
</tr>
<tr>
<td>Height (including dome)</td>
<td>107 inches</td>
<td>214 inches</td>
</tr>
<tr>
<td>Weight</td>
<td>400 lbs.</td>
<td>800 lbs.</td>
</tr>
<tr>
<td>Earth covering</td>
<td>31.5 - 47.2 inches</td>
<td>31.5 - 94 inches</td>
</tr>
<tr>
<td>Groundwater stable</td>
<td>up to the mid. of tank</td>
<td>up to the mid. of tank</td>
</tr>
<tr>
<td>Required earth covering</td>
<td>31.5 inches</td>
<td>31.5 inches</td>
</tr>
</tbody>
</table>

Variable dimensions

Mini telescopic dome shaft with PE lid (green)
Designed for non-vehicle loading and ideal for garden use, the shaft can be adjusted from 29.5" - 37.5" and tilted up to 5% to sit flush with the ground level. Includes a PE lid with child safety lock.

Vehicle loading telescopic dome shaft with cast iron lid
Designed for vehicle loading applications, the tank can be adjusted from 29.5" - 41" and tilted up to 5% to sit flush with the ground level. Includes child-safe cast iron cover. This item is supplied in dark grey.

Maxi telescopic dome shaft with PE lid (green)
Designed for non-vehicle loading and ideal for the Complete Package (Eco-Plus), the shaft can be adjusted from 29.5" - 41" and tilted up to 5% to sit flush with the ground level. Includes PE lid with child safety lock.

Features

For use with the telescopic dome shaft to increase the overall height by 19". Always refer to installation instructions when using this item.

Variable dome height

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.

Always consult local building codes for specific requirements in your area.

GRAF – Setting the Standards in Quality
For over 45 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. Now GRAF is recognized as Germany’s number one rainwater harvesting brand and proudly presents the new premium Carat range of the tanks. A range which is manufactured in one of the most modern and efficient plastic manufacturing facilities in the world!

Warranty clause:
The warranty mentioned in this brochure only refers to the tank in question and not to the accessories or installation labor. Within the warranty period we grant free replacement of any material. Further benefits are included. Pre-conditions for warranty benefits are proper handling, assembly and installation according to the installation guidelines.

Over years of quality and innovation
### Internal Filter Technology

**Optimax Pro, self-cleaning filter**

**Advantages**

- Provides over 95% water yield
- Utilizes patented, high quality filter technology
- Low-maintenance (self-cleaning)
- TÜV-tested to German standards
- Space-saving filter technology inside the tank
- Filter housing can be easily removed without the need for tools
- Transparent lid for filter visibility
- Can manage roof areas up to 3,750 sq.ft.
- Standard 4" connections
- Self cleaning Opticlean system available as an optional accessory
- Low offset height of 6.5" between inlet and outlet

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**Eco-Plus Package**

The Ideal Solution for use in the Home and Garden

- 1,700 gallon Carat underground tank
- Mini telescopic dome shaft for pedestrian loading with an adjustable PE lid and convenient hose connection access in lid
- Eco-Plus package, consists of:
  - Internal Optimax-Pro (self-cleaning) filter
  - Inflow stilling system for controlling water inflow
  - Overflow siphon and rodent guard
  - Spannfix pipe connection sleeve
- Eco-Plus pump package consists of:
  - 1.25HP, 115V automatic pump system
  - Stainless steel floating extractor
  - 40 ft. cord

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**Carat Underground Tank**

**Scope of Supply**

- Adjustable dome to ensure lid flush with the ground
- Turnable for simple pipe connection

The Carat

The First Rainwater Tank of its Kind!

**Unique manufacturing process**

The GRAF Carat underground tank is unlike any other underground tank in the world. It is the largest tank of its kind to be manufactured by injection compression molding. This technique provides the tank with unbeatable stability and ensures that each component is produced with the highest of accuracy.

Unlike other underground tanks, the wall thickness is equal in all areas of the tank. The production tolerances are kept to a minimum, resulting in a product of the highest quality, which is strong, accurate, reliable and extremely user-friendly.

To manufacture the Carat range, one of the world's largest injection moulding systems was developed.

The Carat underground tank is made from Duralen®, a high quality material that is extremely rigid and impact resistant, ideally suited for producing underground tanks. With very low warping characteristics and high stiffness, this material provides high stability and a unique life expectancy. Duralen® can also be easily recycled which reduces waste and environmental impact.
Eco-Plus Package
The Ideal Solution for use in the Home and Garden

Carat Underground Tank Package

- Economic package solution
- Patented self cleaning filter technology
- Automatic 1.25HP pump system
- Easy to assemble with modular and compatible components
- Only one cover viewable on the surface
- Mosquito proof design

Scope of Supply

- 1,700 gallon Carat underground tank
- Mini telescopic dome shaft for pedestrian loading with an adjustable PE lid and convenient hose connection access in lid
- Eco-Plus package, consists of:
  - Internal Optimax-Pro (self-cleaning) filter
  - Inflow stilling system for controlling water inflow
  - Overflow siphon and rodent guard
  - Spannfix pipe connection sleeve
- Eco-Plus pump package consists of:
  - 1.25HP, 115V automatic pump system
  - Stainless steel floating extractor
  - 40 ft. cord

Optional Accessories

- Rainwater System Controller
- The Rainwater System Controller manages all of the functions required in a typical residential or commercial rainwater collection system.

- Digital Water Level Indicator
- The Digital Water Level Indicator accurately displays the water level in a rainwater tank from 0 to 100%.

- Vehicle Loading Option
- Heavy duty riser with cast iron lid.
**Benefits of the Carat System**

Strong, User-Friendly and Better for the Environment

- **Vehicle loading telescopic dome shaft with cast iron lid**
  - Designed for vehicle loading applications, the tank can be adjusted from 28.7” - 44” and tilted up to 5% to sit flush with the ground level. Includes child-safe cast iron cover. This item is supplied in dark grey.

- **Extension**
  - For use with the telescopic dome shaft to increase the overall height by 39”. Always refer to installation instructions when using this item.

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**The Modular Carat System**

Choose Your Tank Size (1,700 - 3,400 US-Gallons)

- **Technical data**
  - Dimensions/weight: 1,700 US Gallons
    - Length: 94 inches
    - Width: 86 inches
    - Height (including tank dome): 107 inches
    - Weight: 485 lbs.
    - Earth covering: 31.5 - 47.2 inches
    - Groundwater stable: up to the mid. of tank
    - Required earth covering: 31.5 inches

- **Configuration**
  - **Variable dimensions**
    - Mini telescopic dome shaft with PE lid (green)
      - Designed for non-vehicle loading and ideal for garden use, the shaft can be adjusted from 29.5” - 37.5” and tilted up to 5% to sit flush with the ground level. Includes PE lid with child safety lock.
    - Maxi telescopic dome shaft with PE lid (green)
      - Designed for non-vehicle loading and ideal for the Complete Package (Eco-Plus), the shaft can be adjusted from 26.5” - 40” and tilted up to 5% to sit flush with the ground level. Includes PE lid with child safety lock.

- **Vehicle loading telescopic dome shaft with cast iron lid**
  - Designed for vehicle loading applications, the tank can be adjusted from 28.7” - 44” and tilted up to 5% to sit flush with the ground level. Includes child-safe cast iron cover. This item is supplied in dark grey.

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- The useful volume of the tanks may be up to 10% lower than the tank capacity, according to the connecting option.

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**GRAF has invested more than $30 million in a new production site specifically set up for the new CARAT range. The new facility has an approximate surface area of 1.6 million sq.ft – one of the most modern production facilities for plastic products in the world.**

**Dimensions and Weight**
- **Length:** 94 inches
- **Width:** 86 inches
- **Height:** 107 inches (including tank dome)
- **Weight:** 485 lbs.

**Earth Covering**
- **Groundwater Stable:** Up to the mid. of the tank
- **Required Earth Covering:** 31.5 inches

**Configuration**
- **Variable Dimensions**
  - **Mini Telescopic Dome Shaft with PE Lid (Green)**
  - **Maxi Telescopic Dome Shaft with PE Lid (Green)**
  - **Vehicle Loading Telescopic Dome Shaft with Cast Iron Lid**

**Extension**
- For use with the telescopic dome shaft to increase the overall height by 39”. Always refer to installation instructions when using this item.

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