



Professional Rainwater
Harvesting Solutions



Carat

RAINWATER HARVESTING
STORMWATER MANAGEMENT

The Carat

The First Rainwater Tank of its Kind!

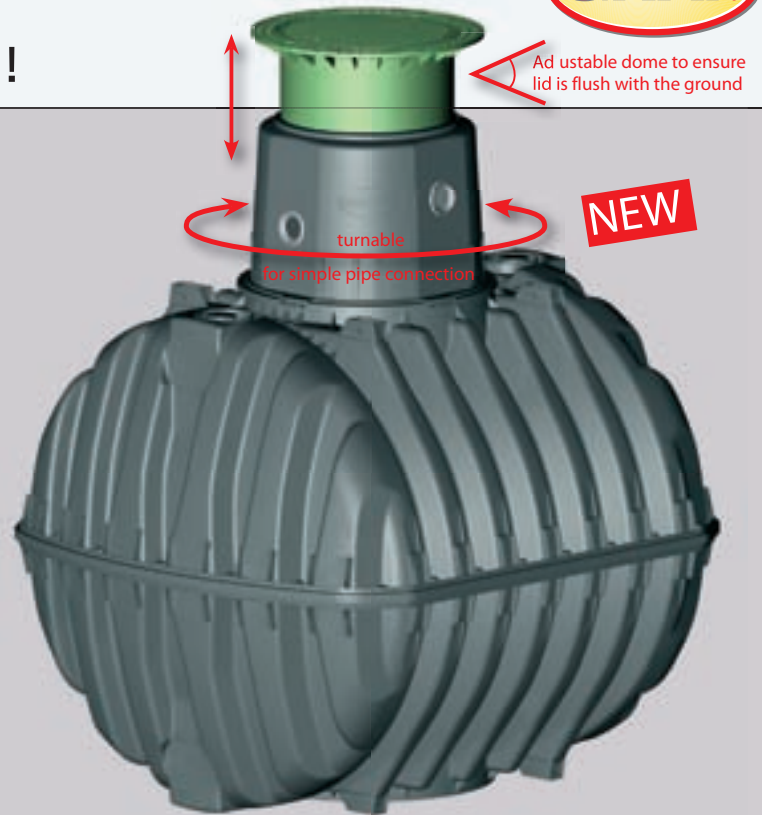


Unique manufacturing process

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.

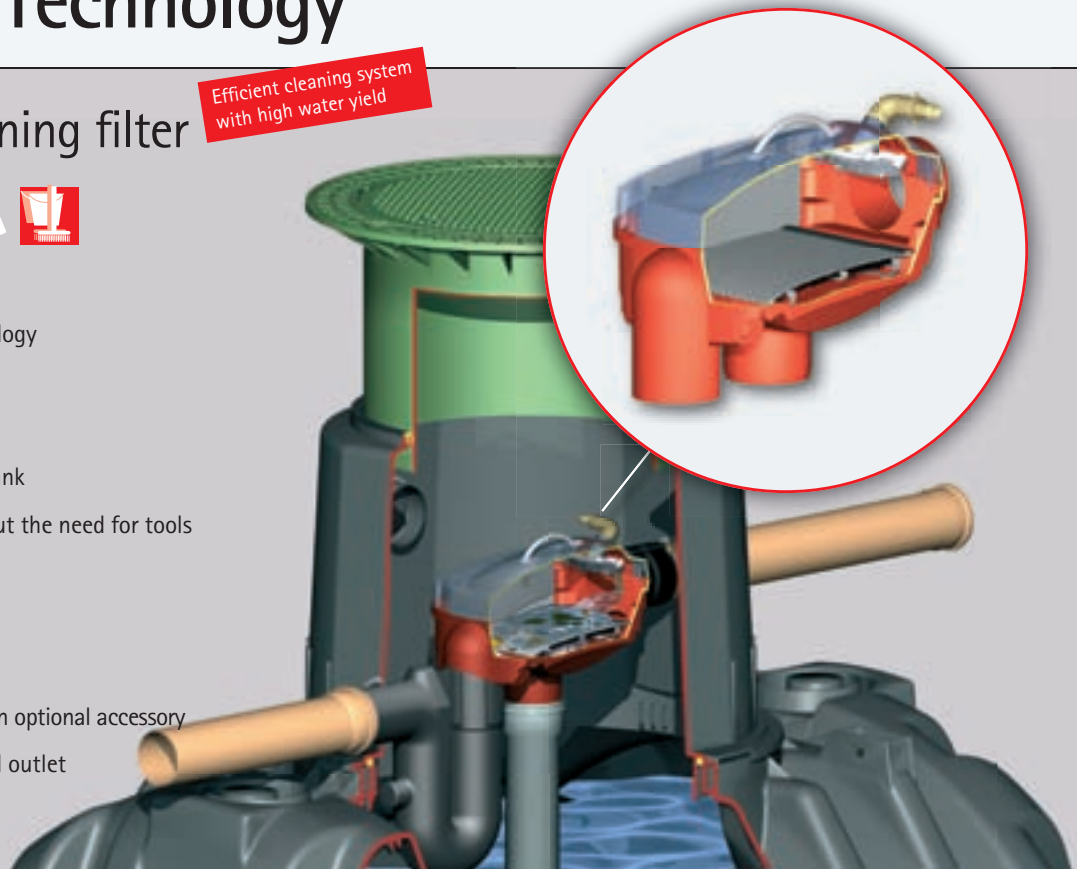
Internal Filter Technology

Optimax Pro, self-cleaning filter NEW Efficient cleaning system with high water yield

Advantages

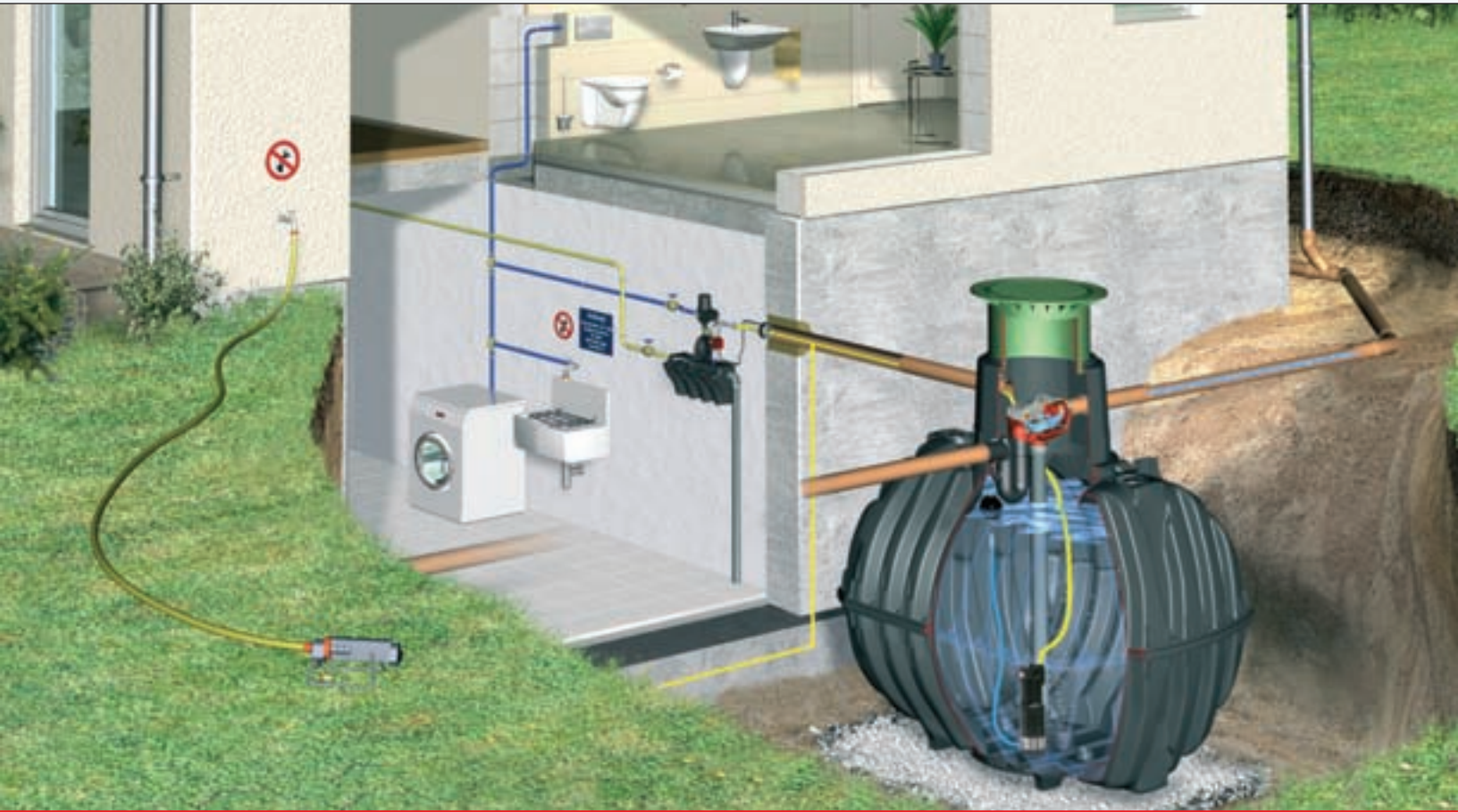


- Provides over 95% water yield
- Utilizes patented, high quality filter technology
- Low-maintenance (self-cleaning)
- TUV-tested to German standards
- Space-saving filter technology inside the tank
- Filter housing can be easily removed without the need for tools
- Transparent lid for filter visibility
- 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



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 1HP 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:
 - 1HP, 115V automatic pump
 - 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

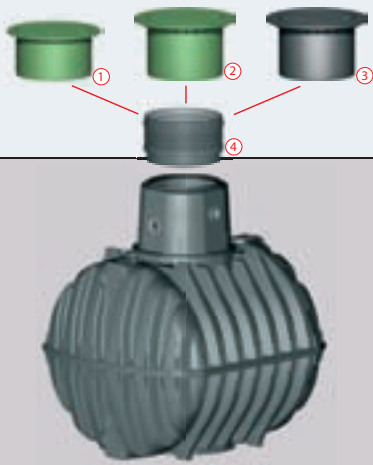
The Digital Water Level Indicator accurately displays the water level in a rainwater tank from 0 to 100%.



Vehicle Loading Option

Heavy duty riser with cast iron lid.





Benefits of the Carat System

Strong, User-Friendly and Better for the Environment

- ① **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.
- ② **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.
- ③ **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.
- ④ **Extension**
For use with the telescopic dome shaft to increase the overall height by 19". Always refer to installation instructions when using this item.



Shown with optional car-bearing cast iron lid.


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

Dimensions/weight	1,700 US Gallons	3,400 US Gallon Configuration (Two 1,700 gallon tanks)
Length	94 inches	 Variable dimensions
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	



GRAF – Setting the Standards in Quality



Production site at Teningen (Germany) near Freiburg



Production site at Dachstein (France)

High Quality Manufacturing

GRAF has invested more than \$30 million in a new production site specially 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.

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 the material. Further benefits are excluded. Pre-condition for warranty benefits are proper handling, assembly and installation according to the installation guidelines.

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.

Imported in the US by:
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