

Tankmasta Toroid Underground Tanks

Design Patent and Trade name pending

Underground Tank Features

Linpac Tankmasta offers a range of underground tanks of 3000 and 5000 litres in capacity. These tanks can be linked to provide greater capacities. Each tank has a riser chamber with a screw or hinge lid. There is an inbuilt filtration screen inside the riser to remove debris from the incoming stormwater.

All underground tanks can be fitted with the Aquasource Remote mains water by-pass system with an above ground or submersible pump for the automatic use of the harvested rainwater for domestic or commercial use (see our Pumps Brochure). If there is no rainwater available in the tank or in the event of power failure the Aquasource automatically switches to mains water so a water supply is always connected. These underground tanks are ideal for retention / detention or buffering of storm water as generally required by local government authorities and then re-use of that water.



BAGEL Underground water tank

- 5000lt capacity
- 3700mm x 2400mm x 1300mmH
- Super strong Structure
- Unique vehicle bearing design
- No necessity to use adjustable risers



DONUT Underground water tank

- 3000lt capacity
- 2400mmD x 1300mmH
- Super strong Structure
- Unique vehicle bearing design
- Modular kits available

Donut (3000lt) and Bagel (5000lt)

We are pleased to introduce Tankmasta's new generation of underground tanks, affectionately referred to as the Donut (3000lt) and the Bagel (5000lt).

Born from the industry's need for an underground tank that is structurally strong, resistant to hydrostatic lift and easy to install, Tankmasta's Toroid tanks are a fresh approach to underground water storage. Designed to exceed the requirements of AS1546.1, both the Donut and the Bagel have been F.E.A. tested to a specific Gravity of 2.1 and a vertical load of 5kN.

With a maximum height of 1300mm, excavation is kept to a minimum and allows both tanks to comply with workcover regulations for working a depth. While the tanks toroid shape provides super strong construction it is the unique central void that allows both the Donut and the Bagel to be incorporated into driveways and garage floors.

Design Standards

- ASNZS 4677 (int) - Structure
- AS1170.0 Design Structures
- AS1579 Vertical Load
- AS4020:2002 Drinking Water
- AS2070 Parts 1 & 8

Australian Standards

- Exceeds ASNZS1546.1 requirements
- Vacuum & Pressure tested to 35kPA FEA tested to greater than 2.0 SG
- Top load vertical resistance of 5kN
- Buckle Load Factor Greater than 1

Also see our Pump Box Brochure for Pump, Rainbank and Filter options

All prices/specifications subject to change without notice

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Tankmasta Underground Tanks

To ensure peace of mind, all Tankmasta toroid underground tanks come with a seven year manufacturer's warranty. We believe it is important that the same peace of mind received from the H.I.A.'s industry guarantee on a new home, should also apply to underground tanks.

But regardless of what a manufacturer's warranty offers, it is only as good as the installation process.

To ensure that your underground tank is installed correctly, Tankmasta has commissioned installation guidelines prepared by leading Geotechnical Engineer. These Guidelines are available on request. (T:/BrochPDF/Watertanks/Tankmasta/Underground Tanks-Installation_8pg_np)

Features

- Super strong construction
- No necessity to use adjustable risers
- Self Cleaning 10mm in-line filter
- Lockable lid & child safety bars incorporated into inlet
- Up to 4 x 25mm connections for water out, water in, electricity & air vent for interconnection
- Use of 4 x 90mm threaded interconnection points
- Flat based sump for pump
- Designed to fit into a 100mm concrete slab
- Unique vehicle bearing design
- The tanks low profile does not exceed workcover's 1.5metre guidelines for working at depth
- Shallow slit trench minimises need for heavy equipment
- Shallow excavation minimises the chances of hitting rock
- Excavating top soil minimises the need to remove soil off site
- Installation instructions link to soil types as stated in AS2870
- Installation instructions prepared by Geotechnical Engineer
(Available on request - T:/BrochPDF/Watertanks/Tankmasta/Underground Tanks-Installation_8pg_np)



Step 1
Excavate hole to dimensions



Step 2
Prepare level base of hole with backfill material.



Step 3
Lift tank into hole using lifting lugs on top of tank.



Step 4
Fill around perimeter of tank with backfill material.



Step 5
Fill centre of tank with backfill material above the halfway flange.



Step 6
Fill centre of tank with backfill material and/or concrete ballast. For details see "T:/BrochPDF/Watertanks/Tankmasta/Underground Tanks-Installation_8pg_np" available on request



Step 7
Position adjustable collar if required. Note: Silicon must be used between the joint of tank inlet & the collar to form a water tight seal.



Step 8
Tank is now ready to be covered and landscaped over.

Order Code	Description	
# TA1900EL	Donut underground water tank - 3000 L 2400D x 1300H mm	<p>Please email to spacepac@spacepac.com.au for current pricing</p>
# TA1950EL	Bagel underground water tank - 5000 L 3700 x 2400 x 1300H mm	

Free delivery to Suburban areas of Melbourne, Sydney or Brisbane - other locations P.O.A

All deliveries are to site, NOT into hole.

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Tankmasta Underground Tanks Accessories

Tankmasta® has a number of accessories for the Toroid underground tanks. These are designed to assist with:

- Installations where the inlet cover of the tank is not at ground level.
- Connecting two or more tanks together
- Plumbing the tank when used as a retention or detention tank
- Suitable float switch for interconnect systems

Adjustable Collar & lid (a)

The adjustable collar & lid is included with all Toroid underground tanks.

It is to be used where minor adjustments (75mm to 100mm) are needed to the height and/or level of the tank inlet i.e.

- Ensuring the inlet cover is flush with finished concrete.
 - To raise the inlet slightly above the finished ground level to prevent surface run-off from entering the tank
- Use silicon sealant when positioning the collar in place, and when the silicon has dried, secure in place with 4 non-corrosive screws (not supplied with collar).

Adjustable Riser - optional (b)

The adjustable riser is used to raise the tank inlet height e.g.

- To install the tank at the depth of the existing pipe work.
- When the tank inlet is situated in a raised garden bed.

Note:
 Maximum height adjustment is 600mm.
 The adjustable riser is not supplied as standard with the tank, but is available as an optional extra.

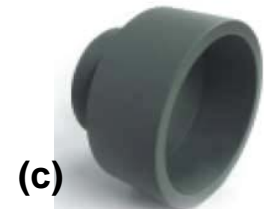
Retention Adaptor (3"/100mm) - optional (c)

This fitting is used when plumbing is required to the bottom of a Toroid underground tank. It is designed to screw in to the 3" BSP fitting in the foot of the tank below the tank inlet.


- 100mm DWV pipe can then be glued into the 100mm female section of the fitting.
- The fitting is blanked inside so that the required diameter hole can be drilled in it on site, i.e.
- For connecting tanks together the whole blank can be drilled out
- For retention the hole size is drilled as per that specified by the local council/ authority

Float Switch - optional (d) (See our Pumps brochure)

This float switch is specifically designed for use in underground water tanks. The magnetic float switch that is usually supplied with interconnect systems with an above ground pump is not suitable for complete immersion. The Tankmasta® float switch is suitable for immersion, more durable and easier to install. It is supplied ready to plug into the interconnect control unit.



Accessories

Order Code	Description	
# WA1511GC	Picture (a) - Lockable lid if required as a replacement (normaly supplied with the tank)	
# TA2020GC	Picture (b) - Underground Adjustable Riser Max Height 600mm	
# 23TF0269	Picture (c) - Connection / Retention Adapter	
	Picture (d) - Magnetic Float Switch - Immersable	
# TA1400	 <p>Pump Cover - 360mm D x 530mm L x 625mm H To suit Davey Rain bank & Onga water switch</p> <p>Dimensions may vary slightly due to the moulding process</p>	<p>Please email to spacepac@spacepac.com.au for current pricing</p>

Delivery cost is included with tank order or Add freight if ordered separately

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