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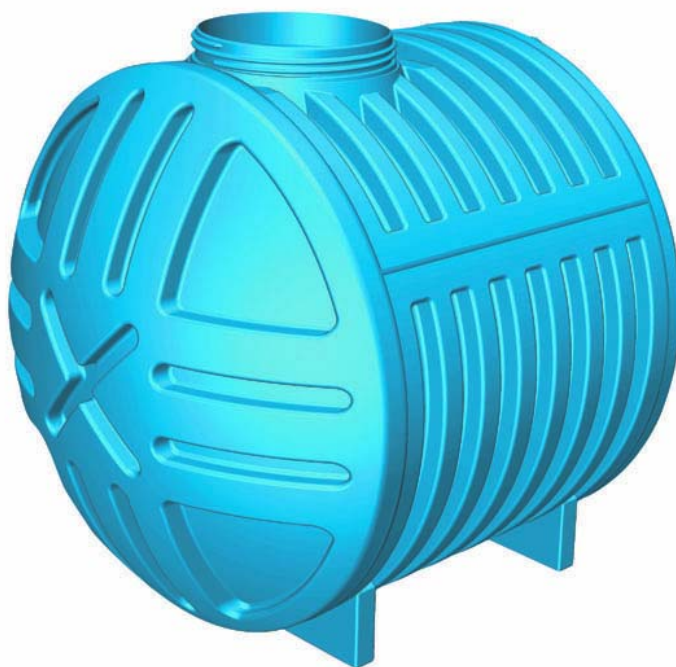
# Aqua - Terne 204

## Installation manual

### Aqua-Terne 204

This following document must be read prior to installation.  
Follow all safety notes.  
Keep in a safe place for later use.

This manual contains important notes and warnings. Other manuals concerning the components/accessories of this tank should be also taken into account.



Valid as from August 2007, version 1.0  
We reserve the right to make technical modifications.  
No liability claims will be accepted for printing errors.

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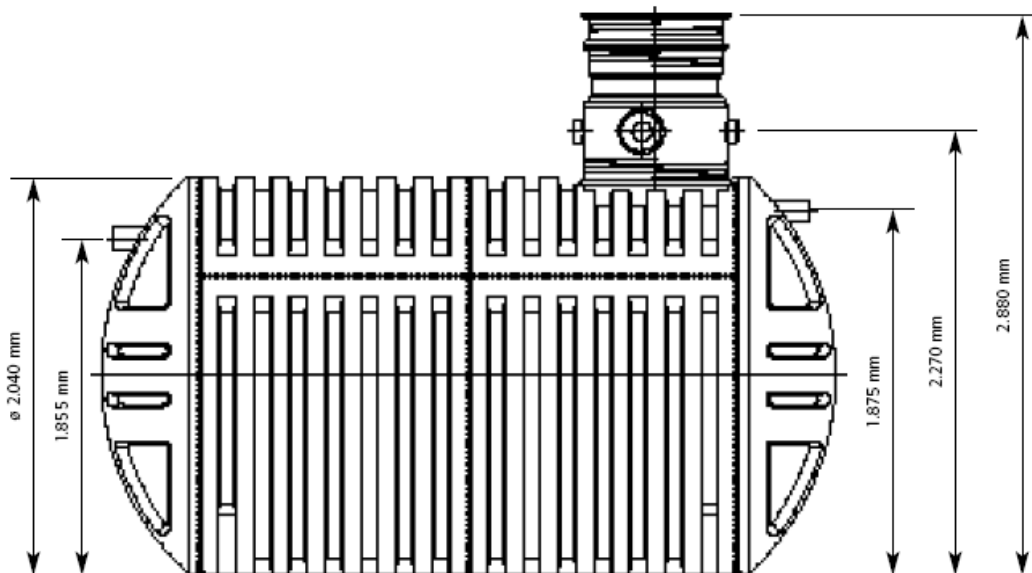
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## 1.0 Scope of supply

Tank 3,500 l, 5,000 l, 6,000 l, 7,500 l and 9,000 including pre-assembled:

- access turret (756mm diameter) is screwed onto tank, including seal, pedestrian duty lid and connection (2x spigot and 2x sleeve connection 110mm OD)
- optional fine-filter available (inlet connection to tank 110mm OD)
- calmed inlet 110mm OD
- overflow siphon 110mm OD with rodent trap
- floating extraction 1" (available as accessory)
- installation manual, warranty certificate

## 2.0 Technical data



Volume [l]	Length [mm]	Width [mm]	Height without turret [mm]	Height with turret [mm]	Weight [kg]
3,500	1,820	2,040	2,040	2,880	285
5,000	2,350	2,040	2,040	2,880	365
6,000	2,640	2,040	2,040	2,880	400
7,500	3,170	2,040	2,040	2,880	480
9,000	3,700	2,040	2,040	2,880	560

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### 3.0 Installation in excavation

#### 1. Prepare excavation

The size of the excavation is determined by the tank size; please refer to the following spread sheet:

Volume [l]	Depth [mm]	Width [mm]	Length [mm]
3,500	approx. 3000	approx. 2,400	approx. 2,220 mm
5,000	approx. 3000	approx. 2,400	approx. 2,750 mm
6,000	approx. 3000	approx. 2,400	approx. 3,040 mm
7,500	approx. 3000	approx. 2,400	approx. 3,570 mm
9,000	approx. 3000	approx. 2,400	approx. 4,100 mm

It is important to keep a distance of 1.50m from the excavation to a foundation of a house. Moreover the excavation floor must be free of any stones and sharp objects. The excavation floor has to be leveled and able to bear the full tank-load. We recommend installing a sand bedding of 50 to 100mm thickness.

#### **Attention:**

If the ground cannot bear the full load, a lean concrete slab (pos. D / drawing 2) of approx. 100mm has to be installed.

If the soil is clay, a suitable drainage has to be installed under the bottom of the tank, in order to discharge ground water.

#### 2. Installation of tank in excavation

The tank is lowered into the excavation by at least two carrying-belts (not supplied) and a suitable number of people. However using suitable lifting equipment e.g. crane, caterpillar is the better method.

#### 3. Back-filling of tank

After position of tank is adjusted, the tank needs to be filled with water up to 2/3 of its volume. Sand can be used as back-fill material. The free space around the tank is now to be back filled in layers up to the inlet and outlet of tank. That has to be done in 10 cm layers, after each layer it is necessary to compact the backfill material. (pos. C / drawing 2). The compacting has to be done manually with a hand tamper.

#### 4. Connect tank (without integrated filter – see drawing 2)

4.1 If a separate filter has been installed the outlet-pipe from the filter has to be connected to the 110mm OD inlet of the tank. Please refer to drawing two to see position of tank-inlet.

4.2 Install the supply pipe (min. 1" ID) to the 1" male threat connection (pos. 5 / drawing 3) of the floating extraction (pos. 4 / drawing 3) in the tank-turret.

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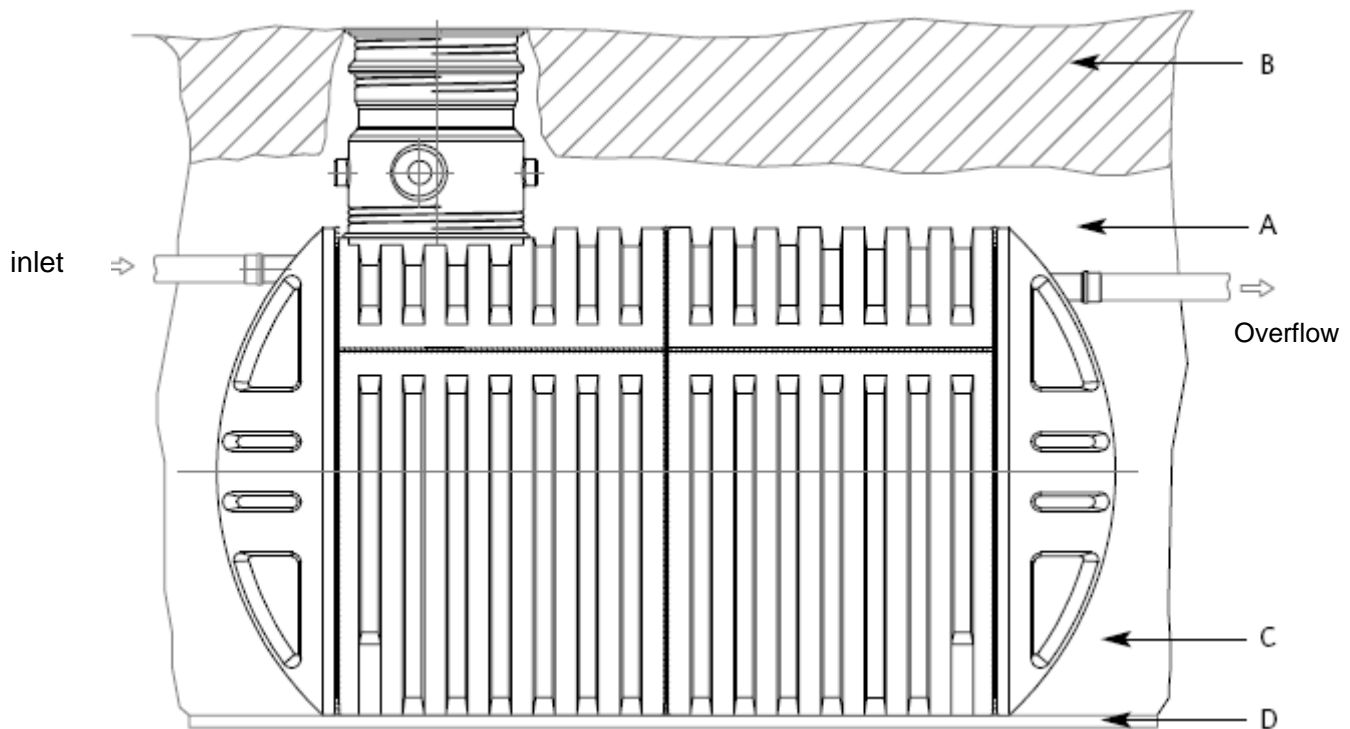
- 4.3 Install cable e.g. sensor cable or float switch cable using the grey bushing-screw connection (pos. 2 / drawing 3) in the access shaft.
- 4.4 We recommend using a 110mm OD duct (plastic drainage pipe) for the installation of supply pipe and cable between building and tank (not supplied)

### **Aqua-Terne – back filling** (drawing 2)

Follow national health & safety regulation!

### 5. Connect tank (with integrated filter – see drawing 3)

- 5.1 Connect inlet and outlet (pos. 1 / drawing 3) of filter (pos. 3 / drawing 3) and connect overflow of tank using 110mm OD pipe (plastic drainage pipe).
- 5.2 Follow instructions starting at 4.2 again.



### **Attention:**

The inlet of the tank with integrated filter is led through the turret due to the filter construction (drawing 3).

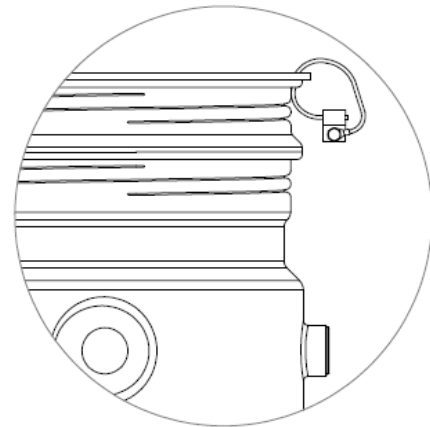
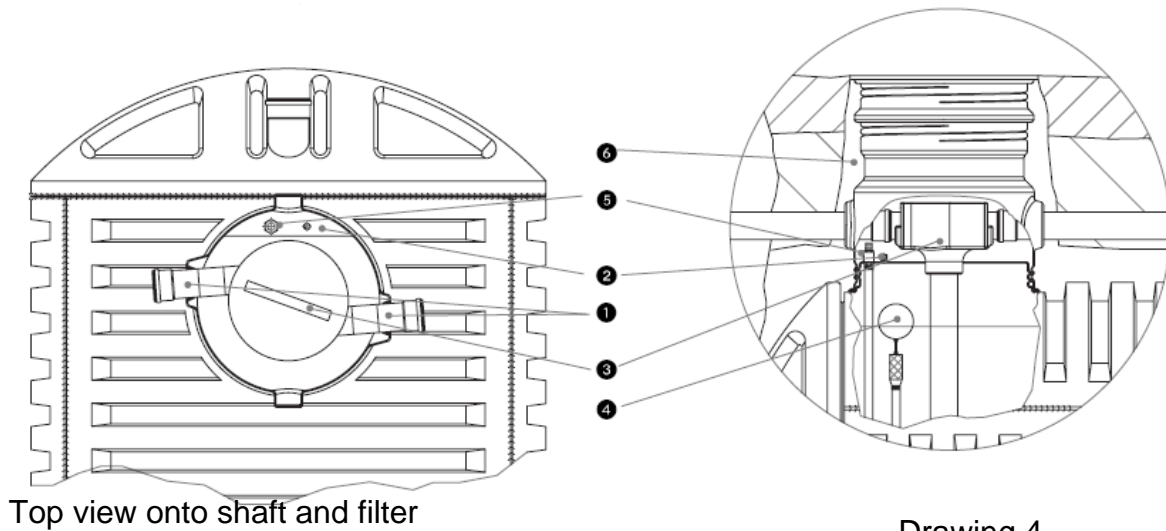
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## Filter connections (drawing 3)



### Connecting the child safety lock

According to drawing no. 4, drill through the lid and the edge of the turret by using a 4.5mm drill. The steel wire of child safety lock has to be run through the drilled holes. A 13-fixed spanner has to be used to tighten the nut. Child safety lock is to be placed underground.

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### 6. Further back filling of tank

After finishing the installation procedure the upper part of the tank is covered with approx. 200mm layer of sand (pos. A / drawing 2). The rest of the cover of approx. 600mm (pos. B / drawing 2) is back filled with the dug out material but free of stones and other sharp objects. As back-fill material around the access shaft sand has to be used (pos.6/ drawing 3).

### 7. Important installation notes

- The tank has a car duty for up to 5 t when installation is carried out in compliance with the instructions of this manual.
- The lid of the dome shaft is only for pedestrian duty. If a lid with car duty is required, you have to use spacer rings and an appropriate cover made of concrete (available as accessory).
- The installation of the tank in flood areas or high ground water risk areas is not permitted because it could damage the tank.
- In ground conditions with low infiltration rate e.g. clay the installation of the tank is only allowed when an appropriate drainage beneath the tank is installed.
- When the tank is installed in a slope, a retaining wall has to be used, to protect the tank of pressure from the side.
- It is important to keep a distance of 1.5m between excavation and building foundations.
- The instructions of the installation manual are to be followed. The manufacturer does not accept any warranty claims due to damages from improper installation, operation or use.

### 8. Regulations

National regulations for erecting and operating a rainwater harvesting system have to be followed.

Based on: R 2007/05

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