

Waterless Sanitation

ZerH₂O™

Safe Containment of Faecal Matter Until Dry





Collection basket

3m vent / extraction pipe

Exterior section absorbing solar heat

Position of top structure wall

Mechanical 'flush' mechanism

PURPOSE OF THE ZerH₂O TOILET

- Completely eliminates the use of water in sanitation infrastructure.
- Provides safe containment and drying (sterilising) of human faeces.
- Acts as in-house toilet for families (maximum 6-10 users per unit).
- Creates entrepreneurial opportunities in communities.

BENEFITS OF THE ZerH₂O TOILET

The Zerho Toilet provides cost-effective and acceptable sanitation where water-borne sewerage is not a viable option; and where no water supply- and waste management infrastructure exists.

It is an eco-sensitive replacement for pit-, composting-, and chemical bucket latrines; using only air flow and solar heat to dry the solid waste and dispose of odours.

The resultant Toilet Resources are used as feedstock for earth worm trenches; and the resultant compost is used for regenerating soil for community gardens that focus on Food Security.

- **Manufactured of a hardy, durable plastic material – polyethylene**
- **Sustainable use for up to 50 years**
- **Most top structures can be adapted to house the ZerH₂O Toilet**



- **Water saving & Environmentally friendly**
- **Safe for all users**
- **No Sludge**
- **No water used for cleaning**
- **Solar drying**
- **Low maintenance**
- **Easy manual operation**

Waterless Sanitation

ZerHOTM
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DIMENSIONS OF UNIT : 160cm diameter x 90cm high x 85kg



- quickly installed
- savings on labour and time
- portable

Any structure, any soil, small spaces

Urine Diversion



The toilet pan has a urine diversion, which routes the urine to a simple soak-away. A separate male urinal is also supplied.

IMPACT

- Groundwater contamination is eliminated.
- **NO SLUDGE** – saving on all costs and actions associated with removal and safe disposal of faecal sludge.
- **Uses NO WATER for operation** - A water-flush toilet uses on average 7000 litres per person per annum to flush an average of 50kg of faecal waste and 500 litres of urine.
- Monetizing the toilet resources often overcomes the resistance to the subject of human waste; and adds value to the community's micro-economy.
- Potential for job creation in local communities; specifically focused on women empowerment.

The Zerho Toilet is sealed and compact, needs minimal excavation and is retro-fitable



Zerho exhibit at CSIR, Pretoria.



Zerho installation at
Siyakhana Gardens, Jhb.



Client installation in Midrand,
Gauteng.

ONCE-OFF COST PER INSTALLATION

Ex-works Pretoria, South Africa = ZAR10 000 per unit

Toilet unit only = ZAR10 000. USD/EU625 (at 1:16)

Toilet With top structure = ZAR25 000. USD/EU1562
Full installation

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