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References:

"The BINLET™ Toilet System lives up to its claimed specification in every respect. The system is efficient, clean and odourless. Congratulations on a fine product!"
-- The Cape Piscatorial Society, Cape Town, 19 July 1994 --

"Our BINLET™ has now been operating for almost 6 years and continues to operate well."
-- Vredehoek Farm, Stanford, 12 April 2000 --

"... the BINLET™ toilets are functioning well. These units are very high in standard."
-- Dept. of Correctional Services, Goedemoed, 16 November 1994 --

Approved Agent:



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How mother nature cleans up

Organic material formed in past ages has since been converted by oxidation into carbon dioxide and water.

Oxidation, by definition, is the breaking down of organic material in the presence of oxygen (aerobic decomposition).

Decomposition also occurs when material, confined in a container with no air, or under water, is broken down by bacteria (anaerobic decomposition).

The human digestive system conveniently grinds food to a pulp to be passed out in the form of excrement.

Food is harvested from far and wide, consumed, and the waste decomposed, reducing it to the bottom dead centre of the cycle of living things.

Ideally that material should be returned to the earth in proportion to the harvest that was removed from it originally.

Die-off of enteric micro-organisms of public health significance during anaerobic digestion

ORGANISMS	TEMPER-ATURE (°C)	RESIDENCE TIME (days)(a)	DIE-OFF (%)
Poliovirus	35	2	98.5
Salmonella ssp.	22 -37	6 - 20	82 - 96
Salmonella typhosa	22 - 37	6	99
Mycobacterium tuberculosis	30	Not reported	100
Ascaris	29	15	90
Parasitic cysts	30	10	100 (b)

(a) Time indicated is time of digestion
(b) Does not include Ascaris

World Health Organisation Criteria

The World Health Organisation has certain criteria, which are used in the evaluation of excreta disposal technologies. These are as follows:

1. The surface soil should not be contaminated;
2. There should be no contamination of groundwater that may enter springs or wells;
3. There should be no contamination of surface water;
4. Excreta should not be accessible to flies or animals;
5. There should be no handling of fresh excreta, or when this is unavoidable, it should be kept to a strict minimum;
6. There should be freedom from odours and unsightly conditions;
7. The daily operation of the system should only require a simple and safe toilet routine
8. The construction cost should not exceed 10% of the total investment in housing.
9. The facilities should mainly be made of local materials and require minimal maintenance
10. The use of water to dilute and transport excreta should, if possible, be avoided;
11. Application in existing high-density areas should be possible.

BINLET™ meets all the above criteria.

The BINLET™ system has been tested and approved by :

- The South African Institute for Medical Research (Ref. No.: FB7/11)
- City of Cape Town City Health Department (Ref. No.: 2/9/4)

BINLET™

composting sanitation system



The BINLET™ solution

Do you have a sanitation problem / water shortage?

Compu-Homes SA (Pty) Ltd has developed **BINLET™**, a waterless, bacteriological sanitation system. Its white, porcelain-like finish is aesthetically pleasing and the system meets ALL criteria of the WORLD HEALTH ORGANISATION relating to the safe disposal of human excreta.

This simple, cost-effective and hygienic system is based on the double septic bin, used in Vietnam for over 60 years and regarded by the World Health Organisation as the biggest breakthrough in sanitation. However, whereas the traditional double septic bin is a large, costly structure, with squat holes only and no ventilation, **BINLET™** has a pleasant appearance and can be installed inside the house.

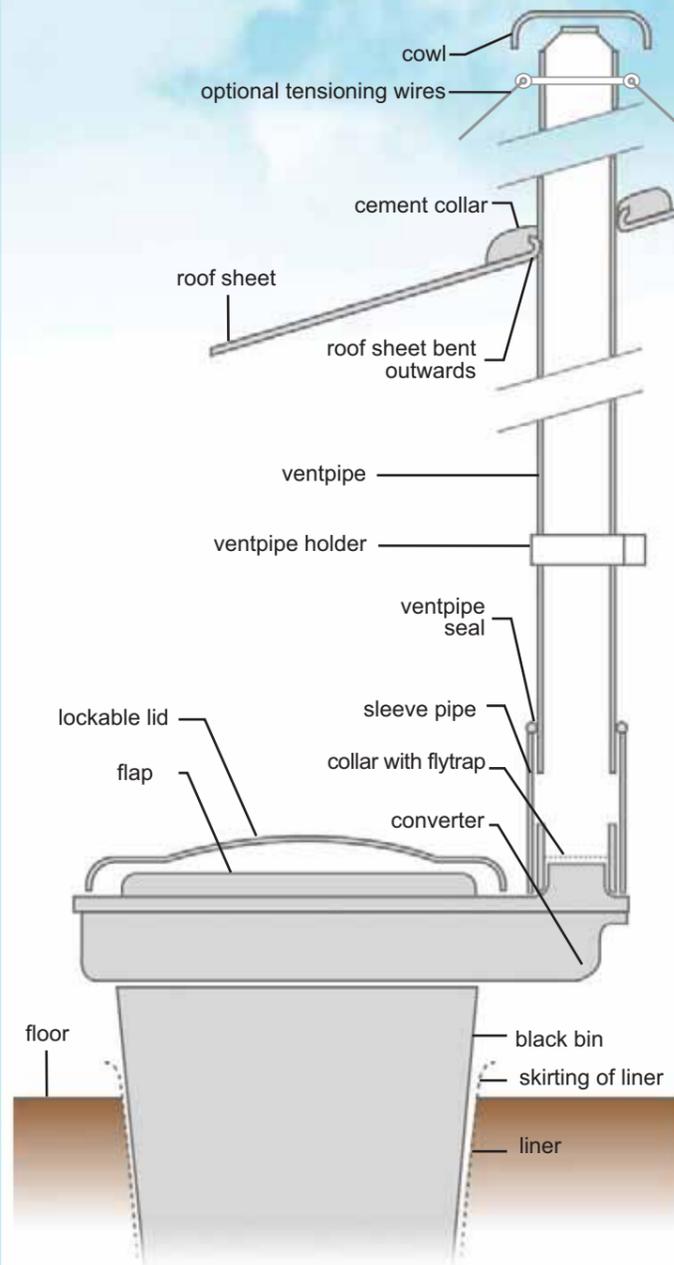


BINLET™ prevents the transmission of excreta-related diseases that destroy or incapacitate: Paratyphoid Fevers, Cholera, Tuberculosis, Typhoid, worm infestations and other intestinal infections.

It is a known fact that in some Asian countries half the food consumed by the people is eaten by the worms with which they are infested.

In unsanitary areas dried faeces can contain worm eggs: these enter the human lungs as airborne dust. As larvae they enter the skin on contact.

Cross section of a BINLET™ system



The **BINLET™** composting sanitation system consists of the following:

- two black 120-litre containers with lockable lids;
- a pitliner;
- a converter;
- toilet flap assembly;
- a PVC vent pipe;
- a collar and flytrap for the vent pipe;
- 250g of special bacteria;
- ventpipe holder.



The lockable lid ensures hygienic removal and transportation of waste material, without any risk of spillage.



The vent pipe provides sufficient draft to expel any odours and moisture.



The flytrap prevents flies from entering or leaving the toilet.

How the BINLET™ system works

While in use, solid waste is reduced to carbon dioxide and water, both being rapidly drawn out the vent pipe. Four to six adults can use the toilet for 4 to 5 months before the full bin needs to be replaced with an empty one, an exchange taking only a few minutes. Most families therefore only require two bins. A close-fitting lid seals the bin before removal, ensuring this is a hygienic process.

Rapid waste decomposition from the first day is due to a specially formulated strain of bacteria, this being the secret of the system's efficient operation. This process continues even after the full bin has been removed for the 8 to 10 week retention cycle, during which the waste is left undisturbed. During this time the content is converted into a sterile substance, which can be safely disposed of. Flies are prevented from entering the toilet by the close fitting converter.

The **BINLET™** toilet system is ideal for informal settlements, low-cost housing schemes where conventional waterborne sewerage is unavailable or impractical, for farming communities and field toilets. It is also suitable for weekend cottages, hiking trails and game farms.



A section of a large **BINLET™** installation in a neighbouring country