

BERGER BIOTECHNIK GmbH

Sustainable Systems and Products for on site
Biological Waste Treatment, Ecological
Sanitation and Water Saving

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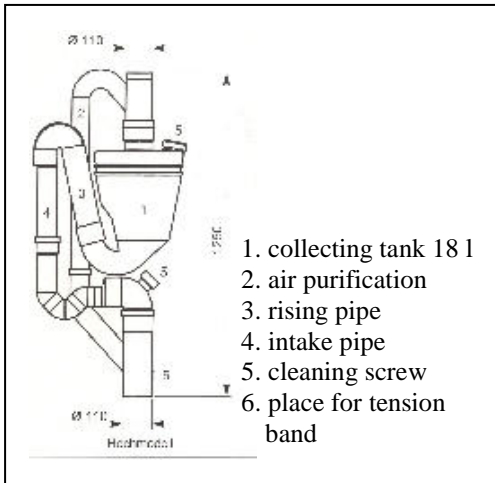
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Act ecologically:

The GUSTAVSBERG Water Saving System The 4-Litres Flush Toilet with Flow Increaser



- uses only 4 litres water for each flushing and only 2 litres for urine flushing
- saves up to 50 % water for each flushing
- increases capacity of sewage collecting tanks
- saves costs for waste water treatment
- offers higher standard and comfort than conventional flush toilets
- improves efficient discharge to and through existing sewer systems



Flow increaser Installation diagram

The Gustavsberg Water Saving System

1. Function

The Gustavsberg Water Saving System consists of a range of low flush toilets (4 and 2 litres flushing volume) connected with a flow increaser, which is installed between the end of the down pipe and the house connexion. The flow increaser accumulates always 18 litres sewage from the toilet, the bathroom and the kitchen, until it flushes itself empty automatically with the next rinsing by the arising underinflation and the therewith associated hoist function. Thereby the horizontal ground and collecting pipes get also cleaned. So the risk of obstruction of the pipes caused by less amounts of flush water is debarred by a sufficient quantity of sewage and achieving enough flow velocity. In this way the flow increaser also provides a solution for existing installations with oversized pipes as well as in case of a lack of slope.

2. Range of applications

The Gustavsberg Water Saving System is suitable for family and multi story houses and even high-rise buildings. Hotels, hospitals, offices and the like. BERGER BIOTECHNIK equipped successfully housing areas, office buildings, schools and tenements with this system. Toilets in weekend homes or summer cottages, which are connected to a sewage collecting pit e.g., do not need a flow increaser, if the toilets have a vertical outlet with an inlying diaphragm with retain function.

3. Building conditions

The flow increaser is normally installed in the basement underneath the down pipe and linked to the house connexion. If there are several buildings provided with the Gustavsberg Water Saving System, at least 40 % of the accommodation units must be connected to a flow increaser. The sewage of the other units can be discharged directly into the service pipe. The amount of flow increasers has to be calculated in individual cases.

4. Plumbing

The Gustavsberg Water Saving System offers wall-hung toilets as well as toilets with horizontal and vertical pipe connexion. In high-rise buildings, up to 20 toilets can be connected to a single flow increaser. It is designed as a compact unit and offered in different types for vertical and horizontal pipes.

5. Maintenance

The Gustavsberg Water Saving System operates trouble-free without any risk of blockage. In case that foreign matters get into the system, the waste water runs through a bypass to the service pipe. The flow increaser unit is provided with applicative maintenance openings.



Flow increaser for vertical connection

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