

ABSTRACT

VACUUM SEWER SYSTEM AND METHOD

A simplified vacuum sewer system comprises a limited number of toilet bowls (1), preferably at the most 60 toilet
5 bowls, which through a sewer pipe (2) are connected to a common sewage collecting container (4), and means for generating and maintaining a considerable partial vacuum in the sewer pipe (2) and in the collecting container (4). The sewage collecting container is a relatively small reservoir
10 (4) which has to be frequently emptied and the volume of which is preferably at the most 100 litres. A dry sliding-vane rotary vane pump (5) including a protective liquid separating means (6, 9) operates as a partial vacuum generating device which includes a rigidly installed tube and valve system (6a,
15 8, 21, 22) by means of which the pressure side of the dry rotary vane pump (5) periodically can be connected to the collecting container (4) for emptying the container to another location by means of the pressure created by the sliding-vane pump (5).