



SINVAC (PTY) LTD
Reg 2015/263649/07
132 Bessemer Street, Industrial Sites
PO Box 19294, Pretoria West, 0117
Reg 2015/263649/07
VAT 42902852206

Tel: +27 (0)12 386 6484
Fax: +27 (0)12 386 9486
E-mail: info@sinvac.co.za
Website: www.sinvac.co.za

INSTALLATION INSTRUCTION GUIDELINE: SEPTIC TANKS & BELOW GROUND WASTEWATER TREATMENT PLANTS

Select a site that allows for the system to be installed with the incoming sewer pipe to be laid at a gradient of between 1:40 and 1:60, (for every sixty meters in length one meter in depth) and adequate access must be provided for routine desludging and maintenance. Usually, the unit should be sighted within 20m of a hard standing area suitable for a 10-ton Vacuum tanker.

NOTE: TANKS ARE NOT DESIGNED TO BE BURIED MORE THAN 0.5M BELOW GROUND LEVEL (GROUND LEVEL TO TOP OF TANK). IF DEPTS ARE GREATER THAT 0.5M PLEASE REFER TO SITE ENGINEER/ARCHITECT OR SINVAC TECHNICAL PERSONNEL.

NOTE: If a high-water table exists or where Abnormal soil conditions prevail such as Clay, oukclip), contact SINVAC or your engineer for special installation instructions for these conditions.

CAUTION:

These instructions assume no more than pedestrian duty loadings will be applied to the final installation. Traffic or other heavy superimposed loads must not be transferred through the walls of the tank. This implies a max invert depth of 500mm from the incoming sewer pipe to ground level. For deeper installations please refer to an Engineer for final instruction. Vehicles should not be permitted within a distance equal to the depth of the unit, unless suitable structural projection has been provided. Before installation commences check that the tank(s) are free from damages and always handle with care. Avoid excessive impact and rough handling

Excavate a hole in line with the proposed sewer pipe. The size should be approximately 300mm wider than the size of the septic tank or SINVAC WWTP's and to a depth that allows for the above gradient to be attained.

Once the hole has been dug, remove any sharp objects and begin to back fill with first layering a 100mm thick layer of compacted soil Crete on the floor of the hole, (tanks interconnected require a cement slab and should be installed according to installation instructions.

Lower the unit into the hole.



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Connect the incoming pipe to the inlet of the SINVAC unit and the outlet from the pump to the dispersion pipe (note: 22mm diameter minimum). Or if in the case of a septic tank, direct the outlet to the preferred French drain or soak away.

Ensure that the tanks are level by placing a spirit level across the lid section of the tanks and take two readings 90 degrees of each other.

Fill all the tanks one quarter full with water. Once the water has reached this level backfill and compact with an inert granular material (e.g. river sand) that has been mixed with cement in that ratio of ten parts sand one-part cement until the level of the water has been matched.

Never backfill with clay soil or with sand that has stones larger than 20mm

With the bases of the tanks firmly anchored you can now begin backfilling and compacting. This is done by simultaneously filling the tanks with water and filling in the excavation with the backfill material. The level of the water should always be close to that of the backfill. Compaction of the backfill should be done every 250-300mm.

Once the outlet level is reached you can stop filling with water and can now fill to ground level with backfill. Should high ground water, clay soil or other abnormal conditions exist the tanks will require cement stabilization and should be referred to an engineer for approval.

FOR WASTEWATER TREATMENT PLANTS: An electrical point must be provided to allow connecting the pump and blower or DB (If supplied). Connect air blower to the diffuser pipe using 20mm HDPE pipe and push lock fitting provided. There should be no sharp bends or kinks causing airflow restriction. Plug the blower and submersible pump into the connection (provided by client). The plant is now ready for use. The system will come with a pump fitted outlet mainly of 40mm in diameter. Connect a 40mm HDPE pipe for the required distance for irrigation. Please ensure that you provide your SINVAC representative with the required length of pipe needed.