



**Burnham Environmental
Services Limited**

INSTALLATION INSTRUCTIONS

BIODIGESTER SEWAGE TREATMENT PLANTS MODELS BONUS 55,70, 85 AND 100

The following instructions are submitted without obligation or prejudice. The installing contractor is responsible for the selection of the appropriate installation method.

1. CHECK LEVELS

Refer to the plant drawing. If invert levels have not already been established these should be checked and the depth of the treatment plant and access covers determined.

2. PEDESTRIAN DUTY ONLY

Biodigester sewage treatment plants are only suitable for pedestrian loads and should be installed accordingly. (If site conditions require greater loads please consult Burnham Environmental Services prior to order).

3. CHECK FOR DAMAGE

Check the treatment plant for any damage sustained in transit.

4. OFF-LOADING AND HANDLING

Always off-load and handle the treatment plant with extreme care. Do not place the plant on uneven ground or sharp stones.

5. WET OR DRY GROUND

Before you commence installation of the Biodigester, you must establish the water table at the intended location. This must be the depth of the winter (peak) water table. Once you ascertain its depth, select one of the two methods of installation details below – “Wet Ground” or “Dry Ground”.

If there is evidence of a high water table, at any time of year, it is essential to use the wet ground installation method. Please refer to the specific instructions contained in these notes. If in doubt details of your installation should be checked with a structural engineer or BES. Wet ground for the purposes of the installation of your Biodigester means that there is a possibility of the water table rising above the level of the base of your plant. **CHECK ALL LEVELS CAREFULLY BEFORE STARTING INSTALLATION.**

EXCAVATION

Refer to specific installation diagram for the particular Biodigester model and ground conditions. Excavate a hole to a depth of 200mm below the base level of the treatment plant. The hole is to have total dimensions 300mm greater than the dimensions of the Biodigester. Ensure the base of the hole is level.

BASE

The Biodigester must be positioned on a base of concrete to a minimum depth of 200mm. The unit must be placed in the wet concrete ensuring that the wet ground anchors are carefully worked into the concrete. Care must be taken to ensure that the concrete is supporting the entire exposed underside. In the case of a wet ground installation, the required amount of concrete, as specified in the appropriate datasheet, should then be used to cover the wet ground anchors.

POSITIONING

Check orientation of inlet and outlet pipes. Check levels and depths and that the top of the plant is level. Connect inlet and outlet pipes.

DRY GROUND – BACKFILLING

Fill the Biodigester with water.

Backfill around the Biodigester with '20mm to dust scalpings' to the required level. Alternatively any combination of concrete and scalpings can be used to backfill to the required level. It is not permissible to use a compactor or vibrator.

WET GROUND – BACKFILLING

Fill the Biodigester with water before commencing to ballast with concrete. Concrete is to be poured to the required quantity for each size. Take care to ensure that the wet ground anchors under the Biodigester are covered by a minimum of 250mm. You have the option to continue to inlet invert level with concrete or to use '20mm to dust scalpings'. The wet ground anchors **MUST** be covered as on the specifications. It is not permissible to use a compactor or vibrator.

