

Direct Pumps and Tanks Ltd

Installation

All MATRIX treatment systems are designed to be as simple and straightforward as possible to install.

This section is more to highlight some of the more important considerations in respect of installing a treatment plant, as more detailed instructions can be found in our Installation and Operation manuals available on request. If required, we can offer a full supply and installation package through one of our nationwide network of certified installation contractors. Please contact us for details.

Before considering the physical installation of a treatment plant, it will generally be necessary first to obtain a 'Consent to Discharge' from the Environment Agency, together with any necessary planning and Building Regulation approvals. We are more than happy to assist you in this respect and do not charge for this service. Please do not hesitate to contact us for assistance in completing these.

Please be aware that from 6th April 2010 the Environment Agency are proposing to allow certain installations, up to 5.0m³/day, to be exempt from the need to obtain a Consent to Discharge, subject to qualifying criteria, which includes that the treatment plant must be certified to BSEN12566-3. We are happy to advise and assist where required, at no cost.

When considering where to install a treatment plant there are a number of factors:

Proximity to habitable buildings – this will be determined by Local Authority Building Control but the minimum distance from any habitable building is 7 metres. There must also be reasonable access for maintenance and to allow a tanker to desludge the plant safely. The position of the treatment plant should also allow gravity drainage of the foul system to the plant. We do not recommend pumping sewage to a treatment plant and would always prefer to supply a deeper inlet unit to accept a gravity flow and then pump the discharge away to a higher level if required. On occasion it is not possible to avoid the need to pump to a treatment plant, in which case we should be consulted to enable us to offer the most efficient design of system. On any treatment plant installation there must be a traditional open soil vent pipe at the head of the drainage run to allow adequate ventilation of the system. This should be positioned such that it is above ridge level of the property with a free flow of air around it. Air admittance valves are not acceptable and neither are tile vents. If these are present it will be necessary to independently vent the treatment plant.

In general, all our treatment plants should be installed on a flat, level, set concrete base, suitable for the prevailing ground conditions. The unit should then be backfilled with a lean mix concrete surround whilst ballasting the plant with water at the same rate. It is worth noting that all MATRIX treatment plant systems are flat bottomed for ease of installation and that the larger systems are rectangular, thereby providing significant cost savings on backfill in comparison to horizontal cylindrical tanks.

MATRIX treatment plants can be easily installed in trafficked areas but will require have duty covers. We must be consulted prior to any installation in a trafficked area.

While we are happy to offer advice and guidance in respect of any installation, it is the responsibility of the contractor to ensure that the installation method and procedure is in accordance with prevailing ground conditions and all regulatory requirements.