

MANTAIR

Mantair Ltd is a family owned British company which specialises in the manufacture, installation and servicing of wastewater treatment products for areas not serviced by 'mains drainage'

The Mantair brand has been providing consumers with reliable, sustainable and economical drainage solutions for over two decades and continues to provide a professional service using modern technologies.

INSTALLATION & COMMISSIONING

Our 'in house' contracting division provides a professional service in the field of wastewater treatment products, including design, installation and commissioning of septic tanks, septic tank conversions and packaged sewage treatment plants, for both commercial and domestic customers.

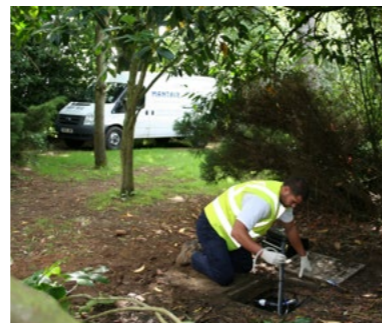
Our engineers ensure care is taken at all times during delivery and installation of the wastewater treatment product to negate the potential of any damage. At all times during the contract the client is kept informed of progress. On final commissioning of the treatment plant the site is left in a clean and tidy condition.



MAINTENANCE & SERVICING

MANTAIR Maintenance Division is a dedicated maintenance department, providing service agreements for the majority of domestic and commercial sewage treatment plants available in the UK.

Our customer Service Team provides an efficient service using our customized database to ensure that all of our customers expectations are fulfilled. All of our engineers are experienced and trained to deal with customers in a friendly yet professional manner.



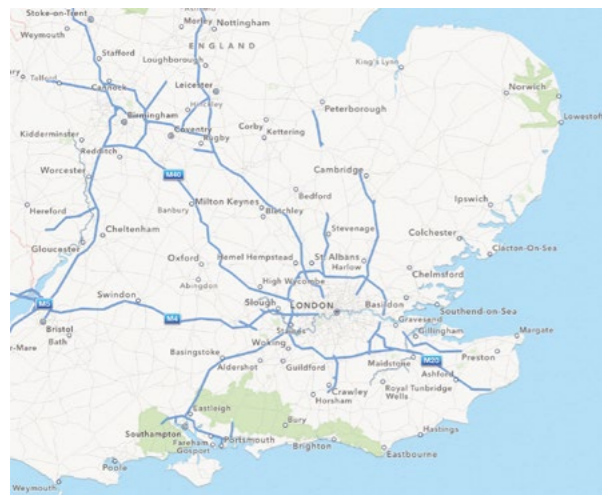
CLEARWATER

Package Sewage Treatment System

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EN-12566-3

THE AREA WE COVER



For further information and advice on selecting the appropriate wastewater treatment system for your situation, contact MANTAIR for professional and friendly assistance.

tel: 01255 476467
email: enquiries@mantair.com
visit: mantair.com

MANTAIR LTD
Unit 13
Baker Close
Oakwood Business Park
Clacton-on-Sea
Essex
CO15 4TL



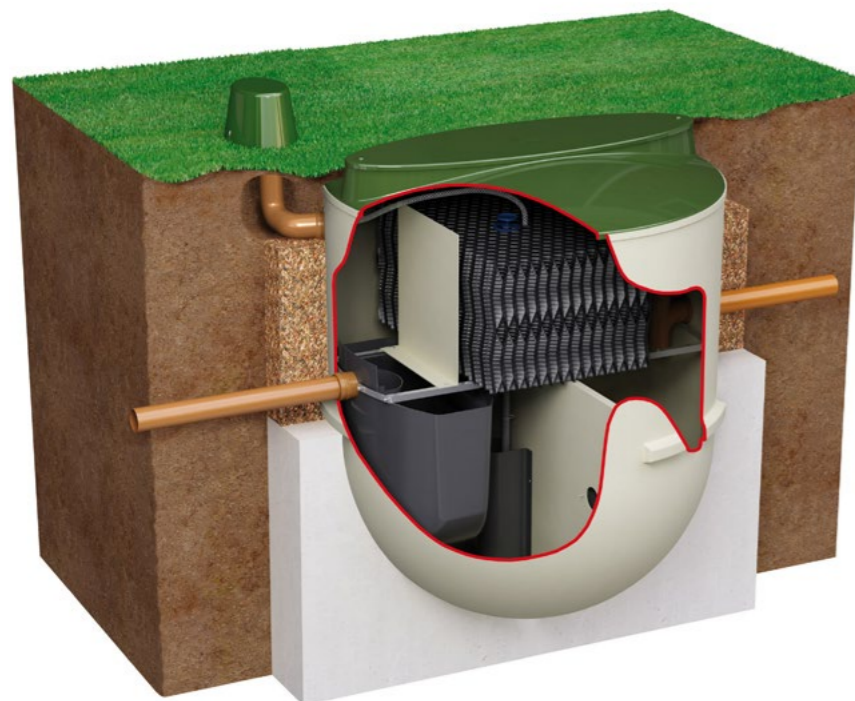
CLEARWATER

Package Sewage Treatment System • EN-12566-3

PROVIDING FULL TREATMENT

Specifically designed to receive all of the waste water from the property, including kitchen, utility, bathroom and toilets, the Clearwater system treats the incoming waste water at source producing a clear and odourless effluent. The effluent is suitable for discharge direct to a ditch, stream or river. In the absence of a suitable watercourse, the effluent can be disposed of to an underground soak away.

Under normal domestic conditions the Clearwater system will produce a final effluent in compliance with the Environment Agency's standard requirement 20mg/lit Biochemical Oxygen Demand (B.O.D) 30mg/lit suspended solids (S.S) and 20mg/lit ammoniacal nitrogen (NH4). Producing a treated effluent of this quality ensures that the impact on any receiving watercourse is kept to a minimum.



“ For domestic dwellings and small scale commercial premises without access to mains drainage, the Clearwater packaged sewage treatment plant provides an economical and environmental way of disposing of wastewater. ”

FEATURES & BENEFITS

- Compact and simple design provides 'value for money'
- Installed below ground providing low visual impact on surroundings
- Lockable child-proof pedestrian duty cover - safe for children and pets
- No mechanical or electrical components within the underground treatment zone
- The air blower is both quiet and economical with low running costs
- Supplied, installed and commissioned by experienced MANTAIR fully trained engineers
- Easy to maintain with annual desludge.



THREE STAGE TREATMENT PROCESS

The Clearwater system is a 'single tank' system using a Biological Filter Process. Within the Clearwater system there are three treatment zones.

Within the primary zone coarse solids are filtered and retained for gradual breakdown, whilst the resulting liquid is continuously distributed over a plastic biological suspended filter by an integral airlift, powered by a remote air blower.

The biological filter is designed to promote the growth of aerobic micro-organisms which 'treat' the liquids. Within the final settlement zone fine solids settle to the floor leaving the resulting liquids as the treated final effluent, which is discharged from the system.

CERTIFICATED TO EUROPEAN STANDARD EN-12566-3

In 2005, a new European Performance Standard was introduced. EN-12566-3 requires manufacturers to submit their product to a testing facility that accurately measures the performance of treatment plants up to 50PE (population equivalent). These tests identify how much pollution the treatment plant removes from the sewage, what level of maintenance is required, and what power is absorbed.

By holding EN-12566 certification, the Clearwater system is approved for an exemption from a permit to discharge under the new EPP2 environmental legislation.

“ Clearwater has for over 30 years been at the forefront in the manufacture of sewage treatment plants and underground tanks, and is a preferred supplier for drainage specialists working in the domestic sewage treatment sector. ”

Model Type	6	12	18
Maximum Number of Full-time Residents	6 (p/day)	12 (p/day)	18 (p/day)
Average Flow	1.2 m ³ /day	2.4 m ³ /day	3.6 m ³ /day
BOD Load	0.36 kg/day	0.72 kg/day	1.1 kg/day
Weight Empty	200 kg	217 kg	445 kg
Overall Diameter	1,850 mm	1,850 mm	2,700 mm
Overall Height	2,200 mm	2,700 mm	2,600 mm
Inlet Invert	1,000 mm	1,000 mm	1,000 mm
Inlet Invert to Base	1,200 mm	1,700 mm	1,600 mm
Outlet Invert	1,100 mm	1,100 mm	1,100 mm
Blower Motor Rating	60 Watts	60 Watts	150 Watts
Drainage Fitting	110 mm	110 mm	110 mm

NOTE: The Clearwater system is also available with a 1500mm inlet invert.

All models are available with an integral pumped outlet for applications where discharge by gravity is not possible (IPS).

