



Bio-Pure Technologies Ltd.

BIO – PURE SYSTEM

SINGLE HOUSE SEWAGE TREATMENT

CARING FOR IRELAND'S ENVIRONMENT TODAY

- SPECIALISING IN CONVERTING EXISTING SEPTIC TANKS INTO PROPER SEWAGE TREATMENT PLANTS
- PROVISION OF SINGLE HOUSE SEWAGE TREATMENT PLANTS FOR NEW HOUSES
- PROVISION OF WATER TREATMENT EQUIPMENT TO COMPLY WITH E.U. DRINKING WATER STANDARDS

Provision of the Bio – Pure System for existing Septic Tanks



Existing septic tank refurbishment

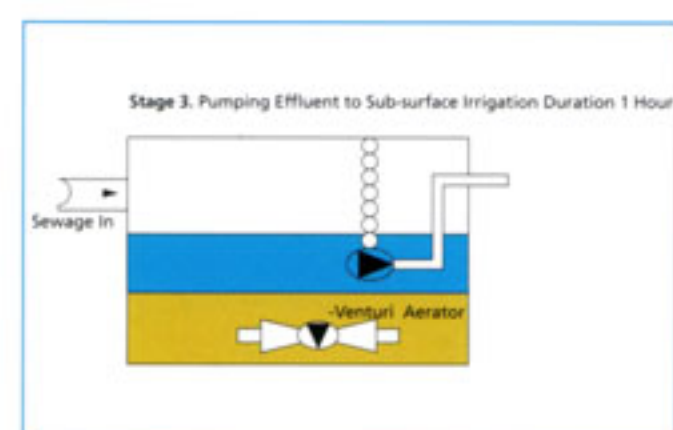
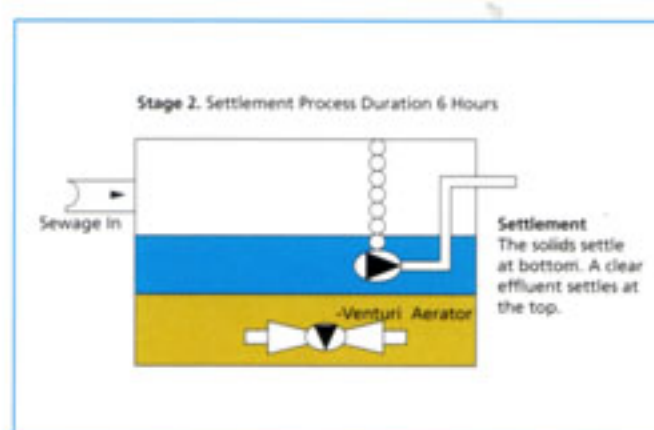
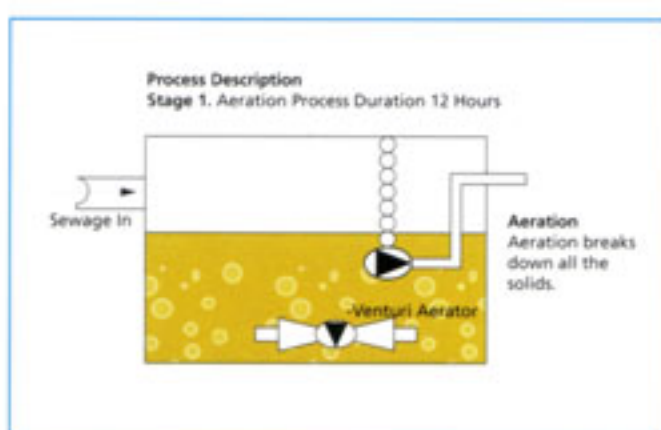


Sewage treatment plant for public house and restaurant

Septic Tanks have recently been associated to polluting Ireland's environment, with washing machines and dishwasher waste, entering Septic Tanks.

This will eventually block up the soak pit and will cause the following problems:

- Percolation Area Saturated
- Overflowing of Septic Tank
- Bad Odour
- Pumping out the Septic Tank frequently



The Bio – Pure System can be installed into the existing Septic Tank with minimum disruption to the garden.

The Key feature of the system:

- Minimum disruption to mature gardens.
- Guaranteed odour free operation.
- Quiet running.
- Due to high degree of treatment the effluent can be discharged by surface irrigation around shrubs and trees.
- Low running electricity costs, (on average € 40.00 per annum)
- Tank to be desludged on average once every five years.
- Long life system, only high quality pvc and stainless steel components used.
- Manufactured in Ireland to the highest european standards.

The three stages of the treatment process is as follows:

Stage One: AERATION PROCESS

This is where the sewage is Aerobically treated, the sewage is completely broken down, breaking the solids into small particles. With Aeration there will be no smell of sewage from the tank.

Duration of Aeration is twelve hours maximum, 9.00a.m to 9.00p.m.

Stage Two: SETTLEMENT PROCESS

The aeration process is switched off and the settlement process begins. All the small particles settle to the bottom of the tank, the treated effluent moves to the top of the tank.

Duration of settlement process is six hours maximum, 9.00p.m to 3.00a.m.

Stage Three: PUMPING OF FINAL EFFLUENT

The pumping sequence is timed to come on at 3.00am in the morning. At this stage the final effluent will be of a very high standard.

10mg/litre Biological Oxygen demand
 10mg/litre suspended solids

The final effluent is discharged at sub-surface irrigation.

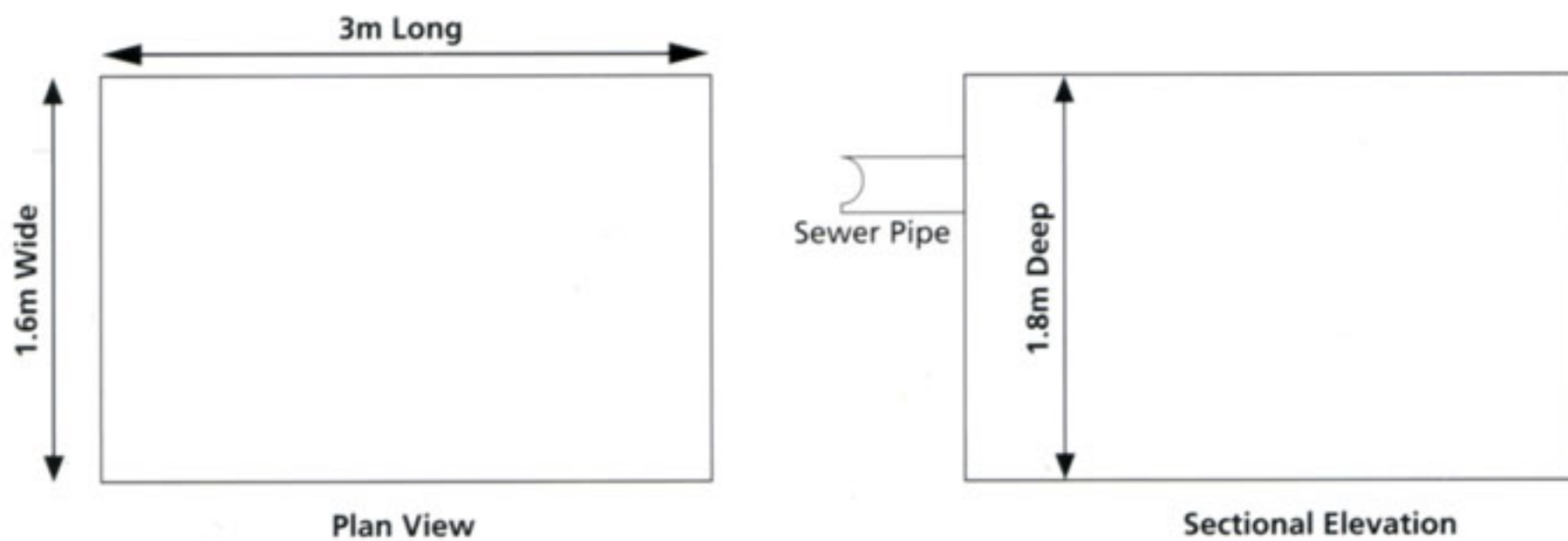


Single house sewage treatment plant for new house

Technical Details

Population Equivalent Served	10 persons
Maximum Bod Per day	0.6kg
Design Flow Rate	2000 litres per day 2m ³ per day
Treated Effluent Standard	
Biological Oxygen Demand	10mg/litre
Suspend Solids	10mg/litre
Electrical Power Supply Required	220 Volts 1 phase
Power Consumption	60 Watts
New Tank Installation	Dimensions Details
Material of construction	Pre-cast Concrete
Overall length	2760mm
Width	1400mm
Overall height	1800mm
Capacity	1040 gallons 4.8m ³
Surface Area	2.5m
Weight of Tank	3.5 tonnes

Excavating Hole Details For New Tank



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