

Hunters Farm | Four Marks Hampshire Bio-Bubble Standard Single House Installation

The Bio-Bubble Domestic Solution design was to treat the highest standard whilst being kind to the environment in terms of the energy consumption. This had to be done in conjunction with being as aesthetically pleasing as possible while also omitting no foul odours. A Single House Installation discharging into a pond was implemented.



BASIS OF DESIGN

Population	6	PE	SS	9.5	mg/l
Maximum Flow	1,2	m ³ /d	BOD	2.5	mg/l
Consent Compliance	95	%ile	Amm.N	0.65	mg/l

Bio-Bubble Waste Water & Sludge Treatment Plants are based on S.B.R. (Sequencing Batch Reactor) systems, using active sludge. The aeration process is carried out for the complete cycle on a pre-set regime of anoxic breaks, carbon contact periods, and finally settlement, prior to discharge. Discharge starts and continues until a pre-set level is reached.

The Bio-Bubble Advanced Aeration SBR works on the basis of three quarters to four fifths of the working volume of the Reactor being retained as the bio-load. This retention helps with the stability of the system, and reducing the effect of shock loads as a buffer.

Humus characteristics are when drawn from a working unit 98% water and very viscous. It is completely odourless, on removal of the water resembles snuff, high in phosphates and makes an excellent organic fertiliser.

Raw sewage gravitates from the house to the Bio-Bubble Advanced Aeration SBR Reactor, where it follows a pre-programmed sequence of events. The Bio-Bubble SBR,

will automatically change gear on command from the PLC (Programmable Logic Controller). The plant has two modes of operation, namely; "Normal Mode" and "Sleep Mode" which brings energy savings of up to 75% compared to that of a conventional system.

The amount of water to be discharged is a pre-set measure between the operating full level and the off float on the pump. The discharge is pumped to the designated discharge point where samples can be taken by the environment agency should the option of a Sample Chamber be taken.

The Bio-Bubble Advanced Aeration SBR Waste Water & Sludge Treatment process will reduce organic load by 97%.

The Bio-Bubble alarm system is linked to a remote monitor. In the unlikely event of a fault, the PLC will record the data so that the exact time of the alarm and therefore the complete history of the plant is stored.

Technology used in Municipal wastewater plants for your domestic sewage treatment. **Because we care.**

A TYPICAL BIO-BUBBLE DOMESTIC KIOSK

