



OAKSTOWN BAF[®]

lifelong sewage treatment systems

a constant solution for a changing environment



You're building your new home and perhaps the last thing on your mind is the treatment of sewage.

However, a good wastewater system is the last piece in the jigsaw of a well designed home. This is the one thing you will want to get right first time.

The Oakstown BAF® Sewage Treatment System is reliable, robust, unobtrusive and astonishingly effective - a once in a lifetime investment to serve all your requirements.



What makes our BAF® Sewage Treatment System so special?

Certification

- The Oakstown BAF® system has been extensively tested at the Institute of Wastewater Technology in Aachen in Germany to achieve certification to En12566 part 3
- Our treatment efficiency results far surpass the requirements of the Irish annex to En12566-3

Capacity

- Our system comprises a full 4000 Litre (900 gal) Primary Treatment tank and a similarly sized Secondary Treatment tank. This allows for substantial sludge storage to extend the interval between desludging – typically 3 – 5 years.
- Because of this unique two-stage construction, the Oakstown BAF® system is ideally suited to upgrading existing septic tanks.

Strength

- Unlike some plastic systems, the Concrete Tanks will not rise, or crush, when ground water rises and clay expands during inclement weather. Furthermore, there is no requirement for concrete backfilling around our tanks, simply backfill with clay - a considerable saving.

Reliability

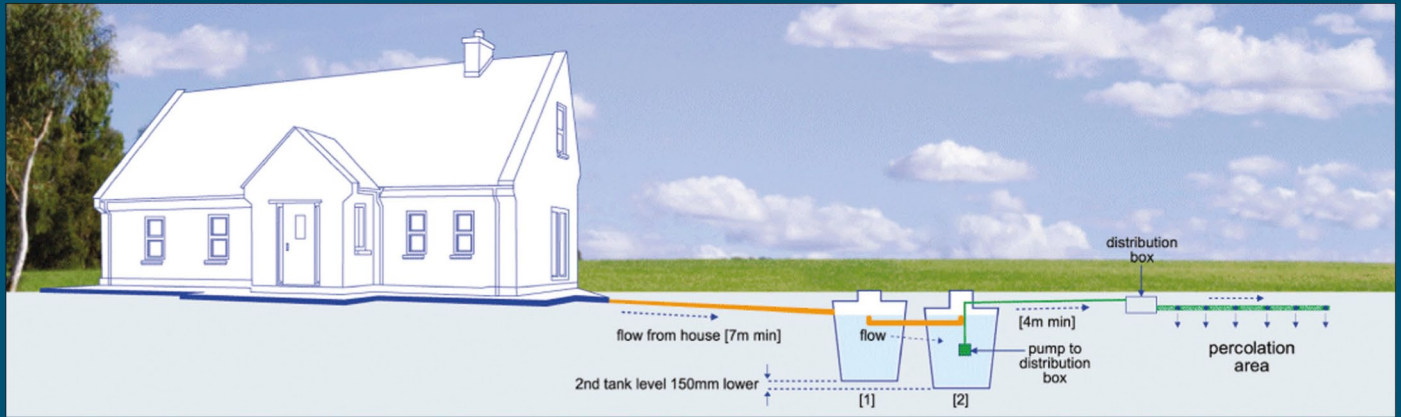
- When it comes to sewage treatment, the three most important things are **“reliability, reliability and reliability”** That is why here at Oakstown, we use the best quality components available and we keep controls simple.
- Our service team are dedicated and proactive. It is our goal to be there when you need us.

Discreet

- When installed, the BAF® System is fitted flush with the surrounding ground level - no unsightly equipment protruding above ground.

Full Installation Service

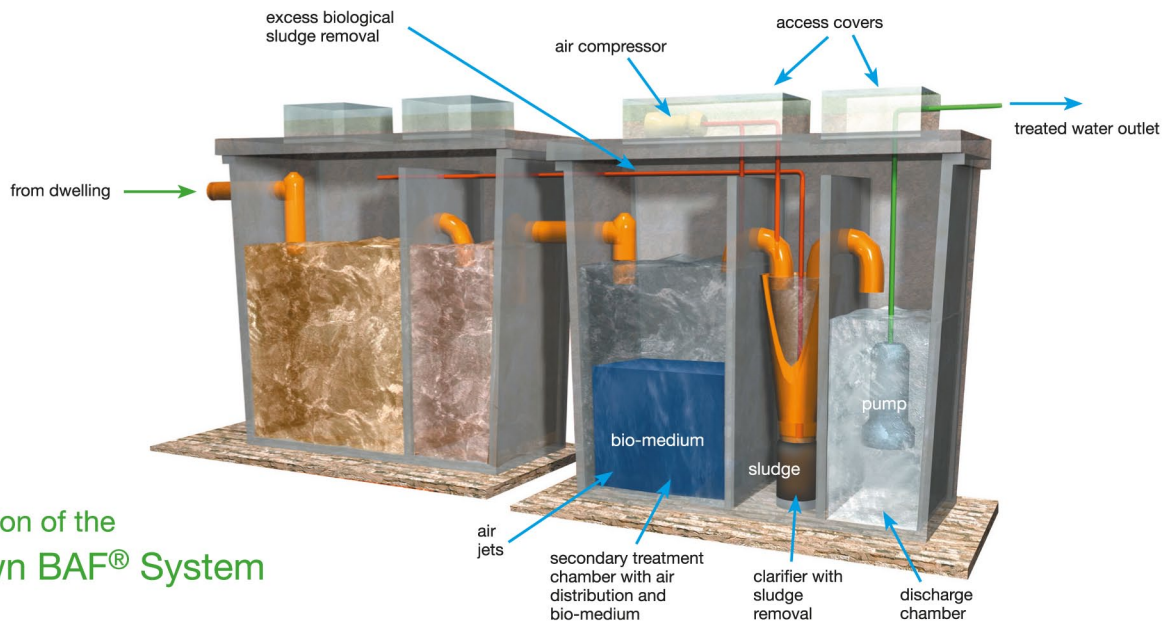
- O'Reilly Oakstown supply, fit and commission each system. We don't simply drop it on site. Our staff will be on hand during installation with good advice borne of years of experience to ensure that your system is perfectly installed.
- We supply the Electronic Control Box, Alarm Panel and all necessary cable for each system.
- Your system comes with a free one year service contract.



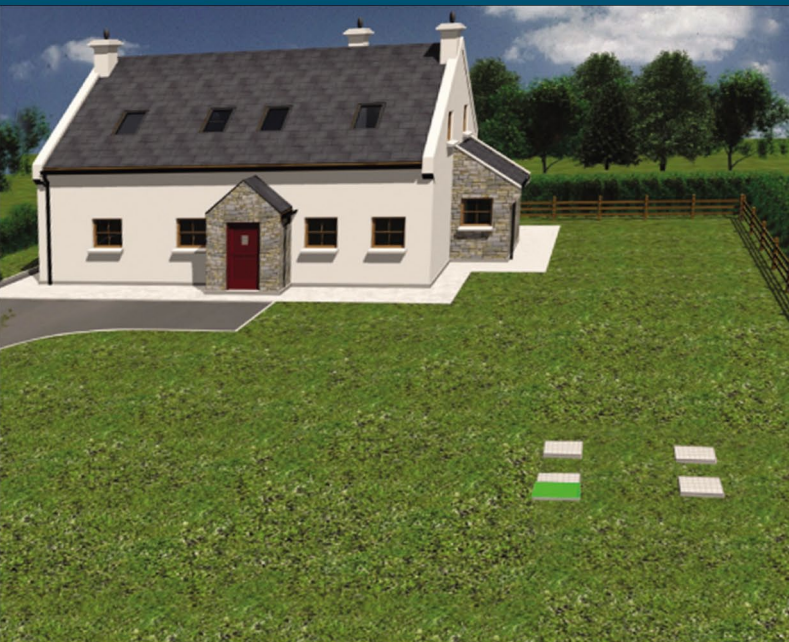
The Oakstown BAF® (Biological Aerated Filter) sewage treatment system consists of two concrete tanks (4000 litres each). These tanks may be placed in tandem or side by side, depending on your site.

The system when installed is discreet and does not protrude above the ground. The first tank acts as a holding tank which allows for Anaerobic digestion over an extended period of

time, before the effluent reaches the treatment area where it is broken down further by Aerobic digestion. Because of the sheer size of the holding tank (4 cubic metres) the Oakstown BAF® System minimises the risk of “shock loading” and ensures that all effluent is treated to the fullest possible extent thereby eliminating odours and producing water of outstanding clarity.



cross section of the Oakstown BAF® System



The finished Oakstown BAF® System blends naturally into your garden

For an immediate answer to all your questions regarding the Oakstown BAF® System please contact our staff for their expert advice and guidance.

Lo-Call: 1850 200702

**Oakstown BAF® System
As seen on RTE's Ear to the Ground and Eco Eye**

CREATING A CLEANER AND HEALTHIER FUTURE FOR ALL

Back-Up

O'Reilly Oakstown are committed to offering customers assistance in the planning application process by providing all documentation necessary to their surveyors and architects including site specific reports, sample service contracts and EN Certs.

Site Visits

O'Reilly Oakstown are happy to meet with customers on site and offer advice if requested.

Why choose an Oakstown BAF® System:

- O'Reilly Oakstown will install and commission the system for you.
- Reinforced **Concrete** Tanks
- Because we manufacture, install and maintain the systems, we pay particular attention to quality control from beginning to end.
- Both the Oakstown BAF® system and the Oakstown septic tank are, of course, EN certified to the Irish Annex.
- We use stainless steel pumps and inline piston blowers for maximum life span and economy. Our experience is that they last up to 3 times longer than plastic pumps and diaphragm blowers.



Installation of Commercial Systems

O'Reilly Oakstown Ltd supply and install commercial wastewater treatment systems for schools, factories and commercial buildings.

If you would like to enquire about our larger systems please contact us.

Company History

O'Reilly Oakstown Environmental Ltd is based in Trim Co. Meath, nestled in the heart of the beautiful and historic Boyne Valley. In such surroundings we are naturally aware of the importance of effective treatment of wastewater to protect our environment.

Since we first started making septic tanks over 30 years ago, we have specialized in what we like to term "Environmental Concrete". We now produce a range of concrete tanks for use in sewage treatment, rainwater harvesting, oil water separation, grease traps and effluent storage.

At O'Reilly Oakstown we continue to make strides in environmental protection. As new legislation for inspection of domestic septic tanks comes into force we are now upgrading some of the septic tanks installed decades ago to full secondary treatment.

Septic Tank Upgrades

O'Reilly Oakstown have the ideal solution to help you upgrade your septic tank. We can provide you with a pump chamber to bring the final effluent up to a properly constructed percolation area or, alternatively, because uniquely the Oakstown BAF® system is a two tank system, you can use your **existing septic tank** as a primary treatment chamber coupled with the Oakstown BAF® secondary Treatment Tank to give a perfect water quality.

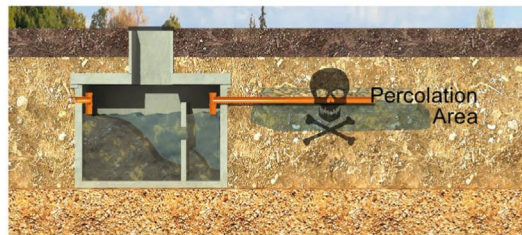
Site Visits

O'Reilly Oakstown are happy to meet with customers on site and offer advice if requested.

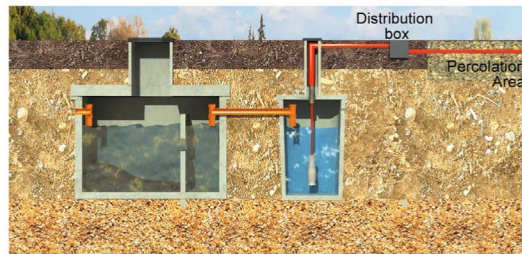
Service

All systems installed by us come with a one year service contract and a two year warranty on all parts under normal conditions.

Solutions for Septic Tank Problems



Problem: Existing septic tank too low and no soakage



Solution A: Pump chamber and pump [new 750Ltr. or 1500 Ltr. Pump Chamber]



Solution B: Install Treatment Tank Upgrade

PERFORMANCE RESULTS



O'Reilly Oakstown Environmental
Oakstown, Trim, Co. Meath, Ireland

EN 12566-3 Annex A, B, C
"Small wastewater treatment systems for up to 50 PT"

Small wastewater treatment system Oakstown BAF System
submerged aerated fixed film bioreactor

Nominal organic daily load	0.38	kg/d
Nominal hydraulic daily load	1.20	m ³ /d
Material	steel reinforced concrete	
Watertightness	pass	
Crushing resistance	pass	
Treatment efficiency (nominal sequences)	Efficiency	Effluent
	COD	93.0 % 46 mg/l
	BOD ₅	97.5 % 8 mg/l
	NH ₄ -N	61.0 % 13 mg/l
	SS	96.7 % 12 mg/l
Electrical consumption	2.0	kWh/d

Performance tested by:

PIA - Prüfinstitut für Abwassertechnik GmbH
(PIA GmbH)
Hergenrather Weg 30
D-52074 Aachen

Certified according to
ISO 9001:2000



Notified Body number: 1739



This document replaces neither the declaration
of conformity nor the CE marking.



Elmar Lancé October 2011



Rainwater Harvesting

O'Reilly Oakstown Environmental Ltd
manufacture rainwater harvesting systems for
domestic and commercial buildings.

Lo-Call Number 1850 200702

O'Reilly Oakstown Environmental Ltd
Oakstown
Trim
Co. Meath

T: 046-9431389
F: 046-9437054

e-mail: info@oreillyoakstown.com
w: www.oreillyoakstown.com
www.facebook.com/oreillyoakstown

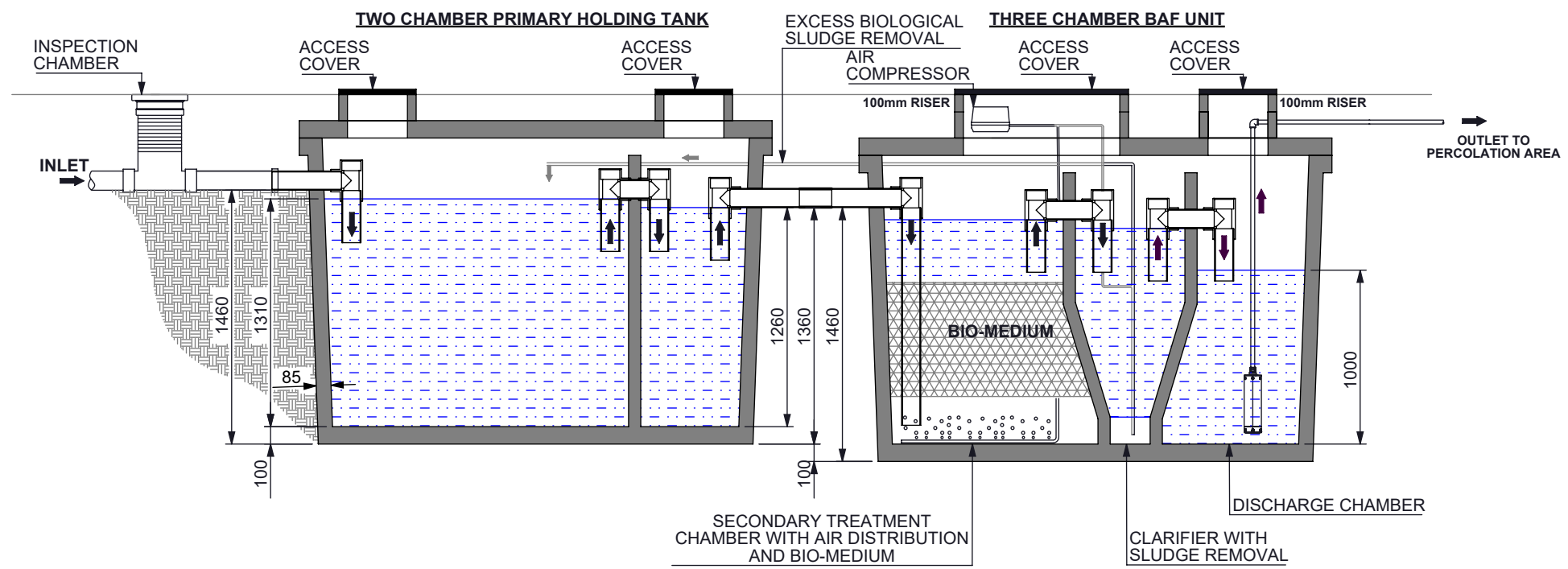
OAKSTOWN BAF®
sewage treatment system



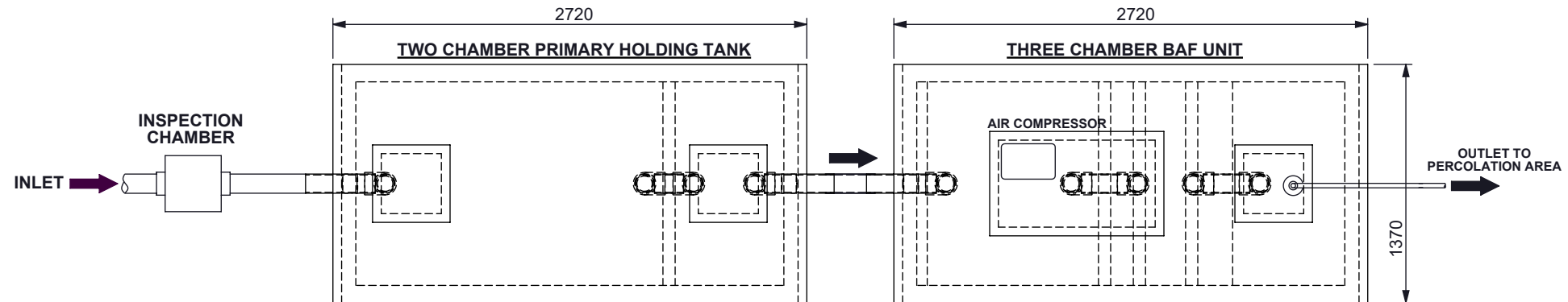
If you have any questions please
do not hesitate to contact us.



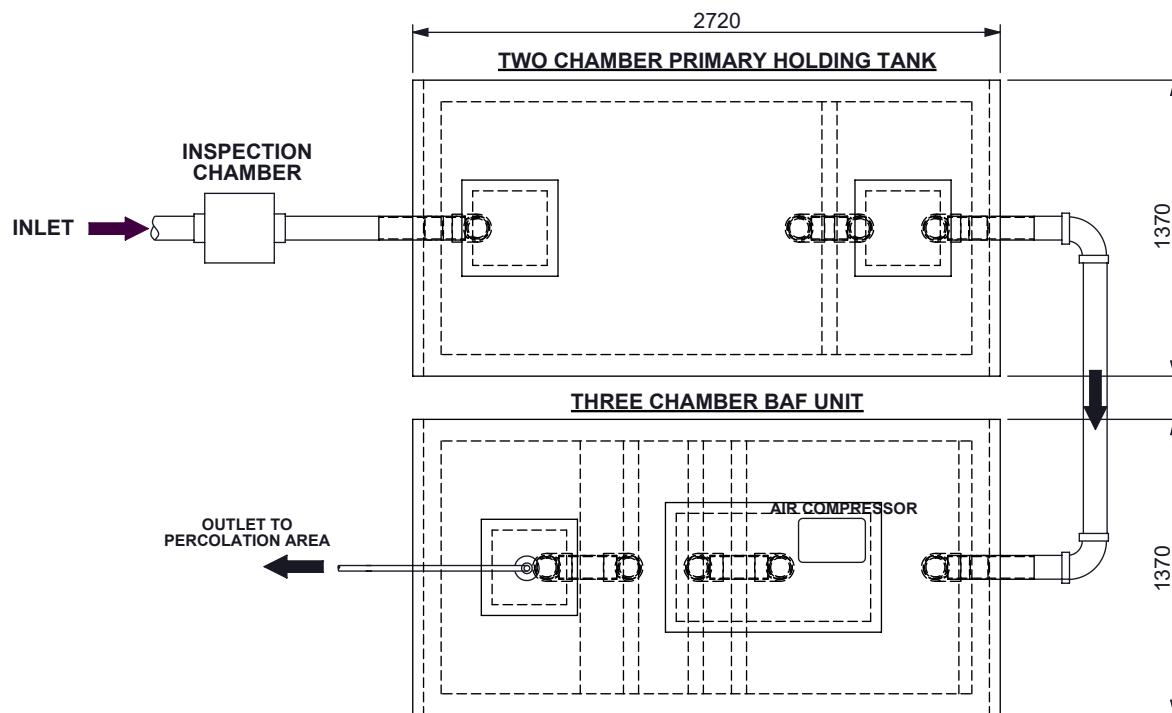
Oakstown 8PE BAF SYSTEM Sectional Elevation



WWTS LAYOUT - OPTION A



WWTS LAYOUT - OPTION B



VOLUME: LITRES: 8000
WEIGHT: TANK 1: 5500kg TANK 2: 6500kg

PROJECT: SR-66 O'Reilly Oakstown	TITLE: 8PE BAF SYSTEM
DRAWN: T.Nicinski	
CHECKED: D. O'Reilly	

O'REILLY OAKSTOWN LTD.
BAF - WASTEWATER TREATMENT SYSTEMS

O'REILLY OAKSTOWN			
TRIM, Co.MEATH			
Email: info@oreillyoakstown.com			
Tel:(046)9431389 Fax:(046)9437054			
SCALE: N.T.S.	DWG NO: OAKS 201702	REV: SR66	DATE: 12/2016