

**EN Cert 12566-3 & S.R. 66**



Prüfinstitut für  
Abwassertechnik  
GmbH

## TREATMENT PERFORMANCE RESULTS

Bio-Friendly Ltd.

Loughglynn Castlereagh, Co. Roscommon, Ireland

EN 12566-3

Results corresponding to EN 12566-3 and S.R. 66

PIA-SR66-1703-1027

Bio-Friendly Treatment Unit

Moving bed reactor in 2 tanks

|  |                            |          |
|--|----------------------------|----------|
| Nominal organic daily load               | 0.28 kg/d                  |          |
| Nominal hydraulic daily load             | 0.90 m <sup>3</sup> /d     |          |
| Material                                 | Glass reinforced plastic   |          |
| Watertightness                           | Pass                       |          |
| Crushing resistance (vertical load test) | Pass (also wet conditions) |          |
| Durability                               | Pass                       |          |
| Treatment efficiency (nominal sequences) | Efficiency                 | Effluent |
|  | COD 93.1 %                 | 53 mg/l  |
|  | BOD <sub>5</sub> 95.0 %    | 14 mg/l  |
|  | NH <sub>4</sub> -N 96.8 %  | 1.0 mg/l |
|  | SS 95.2 %                  | 16 mg/l  |
| Number of desludging                     | Not more than once         |          |
| Electrical consumption                   | 1.5 kWh/d                  |          |

Performance tested by:

PIA – Prüfinstitut für Abwassertechnik GmbH  
(PIA GmbH)  
Hergenrather Weg 30  
52074 Aachen, Germany

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



Notified Body  
No.: 1739



Certified according to  
ISO 9001:2008



DAkkS  
Deutsche  
Akkreditierungsstelle  
D-PL-37713-01-00

Prüfinstitut für Abwassertechnik GmbH  
Elmar Lancé  
May 2017

**Green Awards 2017 Winner**  
Agribusiness Awards 2015/2016/2017 Finalist

The Print Depot 094 9862708

## New Builds

The system combines the reliability and low maintenance of the traditional septic tank along with the efficiency of a modern biological treatment system.

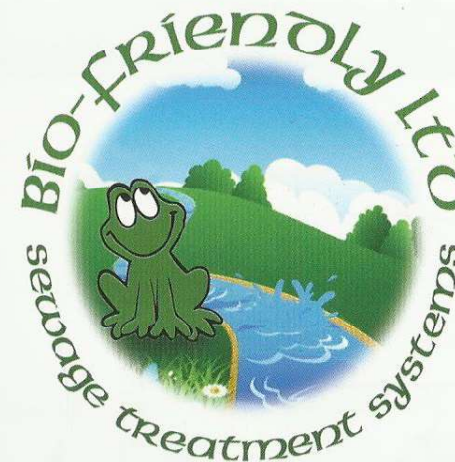
## How it Works

For new houses with a gravity flow two tanks are required. The primary settlement tank initially treats all domestic waste. Further treatment then takes place in the second tank with the use of specially designed media and compressed air to encourage natural bacteria to grow.

The system requires a power supply in order to provide the compressed air to the system. The fully treated effluent is discharged into a percolation area.



- Low running cost.
- Environmentally friendly.
- Easy to install.
- Conforms to all regulations.
- Suitable for all ground conditions.
- A cost effective solution to upgrading existing septic tanks.
- Manufactured in Ireland.
- Servicing of all types of Sewage Systems carried out.



## P6 SEWAGE SYSTEMS

EN Cert 12566-3 & S.R. 66 **CE**

**For New Houses and  
for Upgrading  
Existing  
Systems**



**Fully Guaranteed  
Annual Servicing Offered**

**Delivery Nationwide**

**Brendan Gordon, Bio-Friendly Ltd.**  
Loughglynn, Castlereagh, Co. Roscommon.

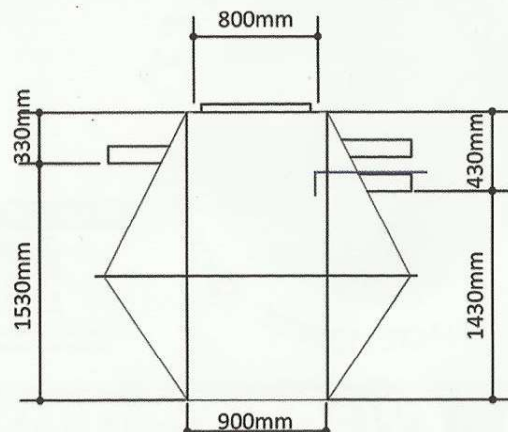
**T:** 094 9880052 **M:** 086 6097200

**E:** info@biofriendly.ie

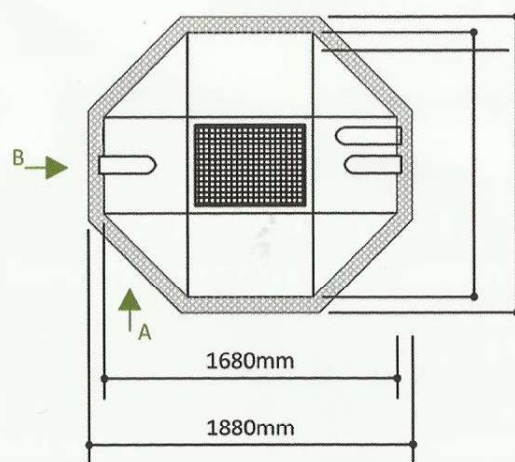
**www.biofriendly.ie**



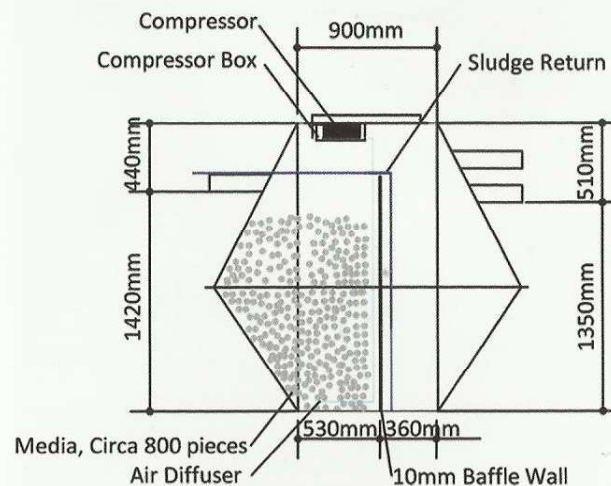
## Technical Information



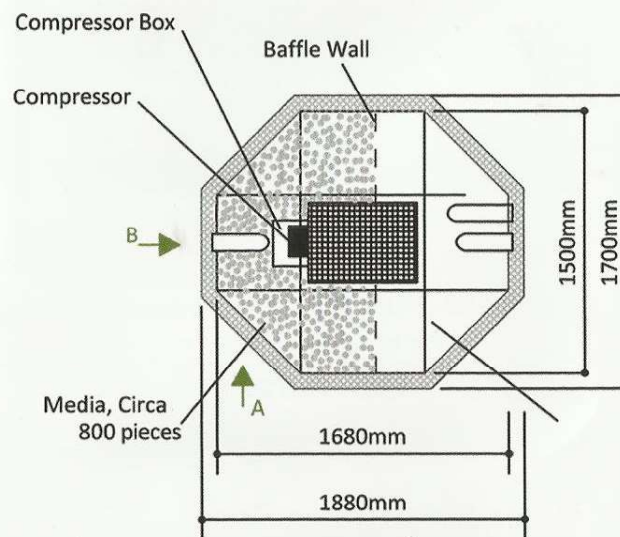
**ELEVATION VIEW A**



**PLAN VIEW**



**ELEVATION VIEW A**



**PLAN VIEW**

### APPROX. DIMENSIONS

|                  | UNIT   |
|------------------|--------|
| Over all height  | 1860mm |
| Over all width   | 1700mm |
| Ground to invert | 330mm  |

### Ground to outlet

|                  |        |
|------------------|--------|
| Ground to outlet | 430mm  |
| Base to invert   | 1530mm |
| Base to outlet   | 1430mm |
| Flange width     | 100mm  |

## Upgrading Existing Systems

The system is Fully Certified as both a stand-alone unit, and for use in conjunction with traditional septic tanks. Where the old existing tank is structurally sound and functioning efficiently, the Bio-Friendly Ltd. unit can be incorporated, either with or without a pump depending on gravity or planning requirements.

To be sure that the system is operating at the maximum efficiency Bio-Friendly Ltd. offers a fully comprehensive service plan for the P6 system.



1. Vent
2. Compressor / Aerator
3. Pump Outlet Pipe, to Percolation Area
4. Alarm / Buzzer, situated in the house
5. Float that triggers Alarm / Buzzer
6. Alarm
7. Pump
8. Float that triggers Pump