

**Klargester**

BioTec+

Sewage Treatment Plant

DS1473P	BioTec+ 2 Gravity Sales Drawing
DS1478P	BioTec+ 3 Gravity Sales Drawing
DS1474P	BioTec+ 2 IPS Sales Drawing
DS1480P	BioTec+ 3 IPS Sales Drawing
DS1842P	BioTec+ 2 & 3 Neck Trimming & Extension Detail

Please request copy of specific sales drawing from our sales department



Part Code	1014179
Issue	03 ECN 2150
Description	BioTec+ 2 & 3 Manual
Date	December 2024

## INTRODUCTION

Thank you for choosing a Kingspan product. This manual will help you to keep it operating efficiently over a long service life. Please read this manual thoroughly, preferably before installation.

This manual should be referred to by:

- The installer
- The electrician
- The service engineer.
- The maintenance engineer.
- The desludge contractor
- The owner/user

## TECHNICAL DATA

Unit	BioTec+ 2	BioTec+ 3
Length (mm)	2480	2480
Width (mm)	1540	1690
Inlet Invert depth (mm) - Gravity	565 - 1450	650 - 1440
Inlet Invert depth (mm) - IPS	765 - 1450	850 - 1440
Installation depth (mm) - Gravity	1915 - 2800	2540-2960
Installation depth (mm) - IPS	2115 - 2800	2370-2960
Blower	JDK60	JDK100
Integral Discharge Pump rating (W)	250	250

Unit	BioTec+ 2	BioTec+ 3
Max PE	6	9
Max Daily BOD (kg)	0.36	0.54
Maximum Daily Flow (m3/d)	0.90	1.35

All surface water must be excluded. These units should be used exclusively for the treatment of sewage from domestic properties. Contact Kingspan if your sewage results, wholly or partly, from any commercial function.

## HEALTH AND SAFETY

### Please read and follow for your own and others safety

You must read these warnings carefully before installing or using the equipment. Please ensure that you have performed a risk assessment before commencing any installation. Note that the risk assessment should be performed by a person who understands the hazards of the work, and the work environment. Note that it must be *suitable and sufficient*, i.e. adequately considers risks and ensures controls in place to mitigate risks.



You must observe all-hazard labels and take appropriate action to avoid exposure to the risks indicated. Always ensure that all relevant documents are supplied with the equipment when being transferred to a new owner.

#### General guidelines

- Only experienced and competent person(s) should carry out the installation.
- The unit must have a *Pre-Service Agreement Inspection* by an approved engineer.
- Take care to maintain correct posture, particularly when lifting.
- Use appropriate lifting equipment when necessary.
- A qualified electrician should carry out electrical work deemed necessary.
- The covers must be kept locked.



#### Personal Protective Equipment (PPE)

- We recommend the use of a dust mask and gloves when cutting GRP components.
- Person(s) carrying out maintenance on the equipment should wear suitable PPE.



#### Maintenance and Inspection Procedures

If you wish to inspect the equipment's operation, please observe all necessary precautions as stated in your risk assessment; including those listed below.

- The power supply must be isolated at the control panel(s) before lifting the covers.
- If the equipment should run with the covers off, care must be taken to avoid contact with moving parts and electrical components or conductors.
- Once the power has been isolated, the control panel must be kept locked shut to avoid accidental reconnection while work or inspection is being carried out.

#### Working Area

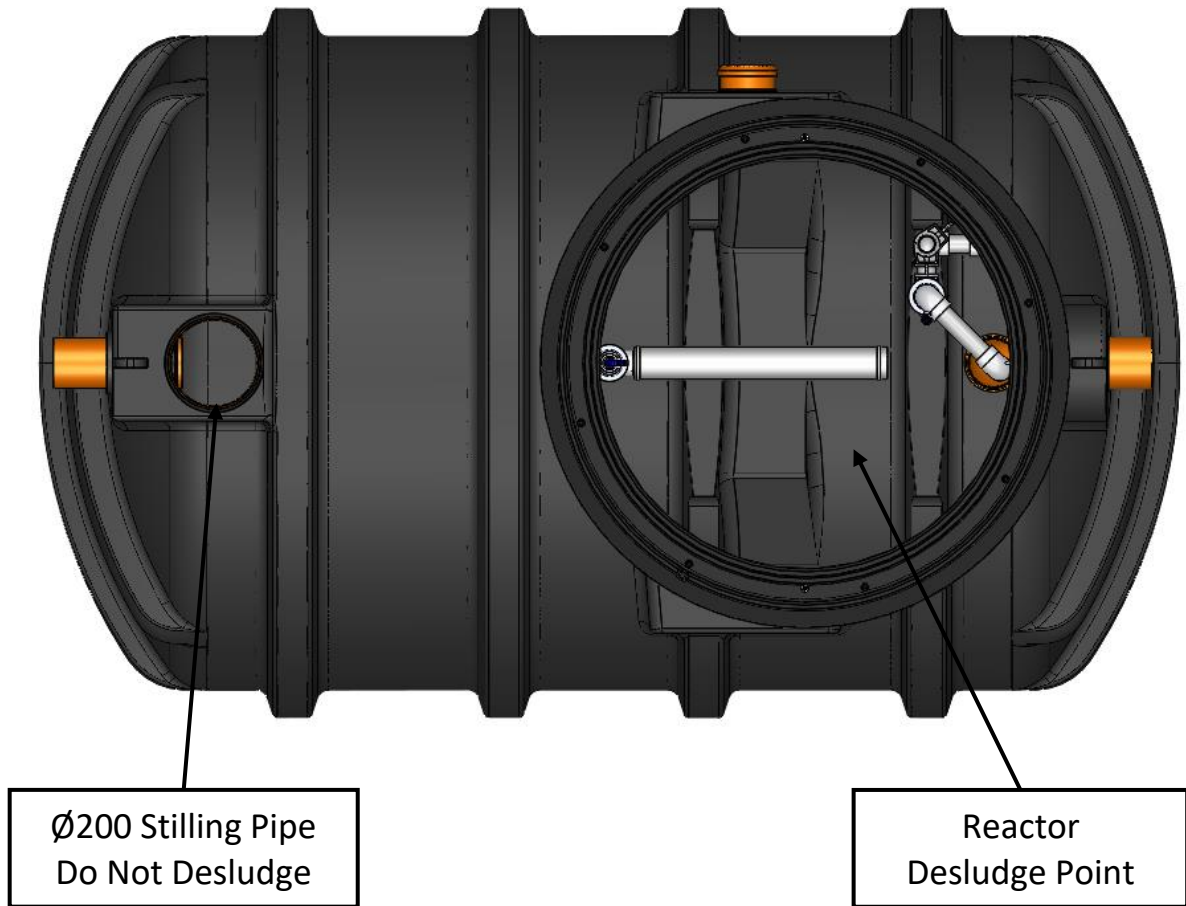
- Ensure that the working area is adequately lit.
- Ensure that you are familiar with the safe working areas and its access and egress.
- Use only the designated access walkways.
- Do not walk on the cover or deep well safety mesh(es).
- Always keep proper footing and your balance, avoid any sharp edges, or restricted points.

#### Desludging

- Desludging should be carried out by a licensed waste disposal contractor holding the relevant permits to transport and dispose of sewage sludge in your region/area.

## DESLUDGING

Desludging should be carried out by a licensed waste disposal contractor holding the relevant permits to transport and dispose of sewage sludge.



Insert the suction hose into the reactor, taking care not to damage the internal pipework. Approximately 300mm depth of liquor must remain the reactor after desludging.

**Desludging frequency is dependent on the incoming organic load, and therefore site specific.**

Approximate de- Sludge volumes – This table is a guide only.

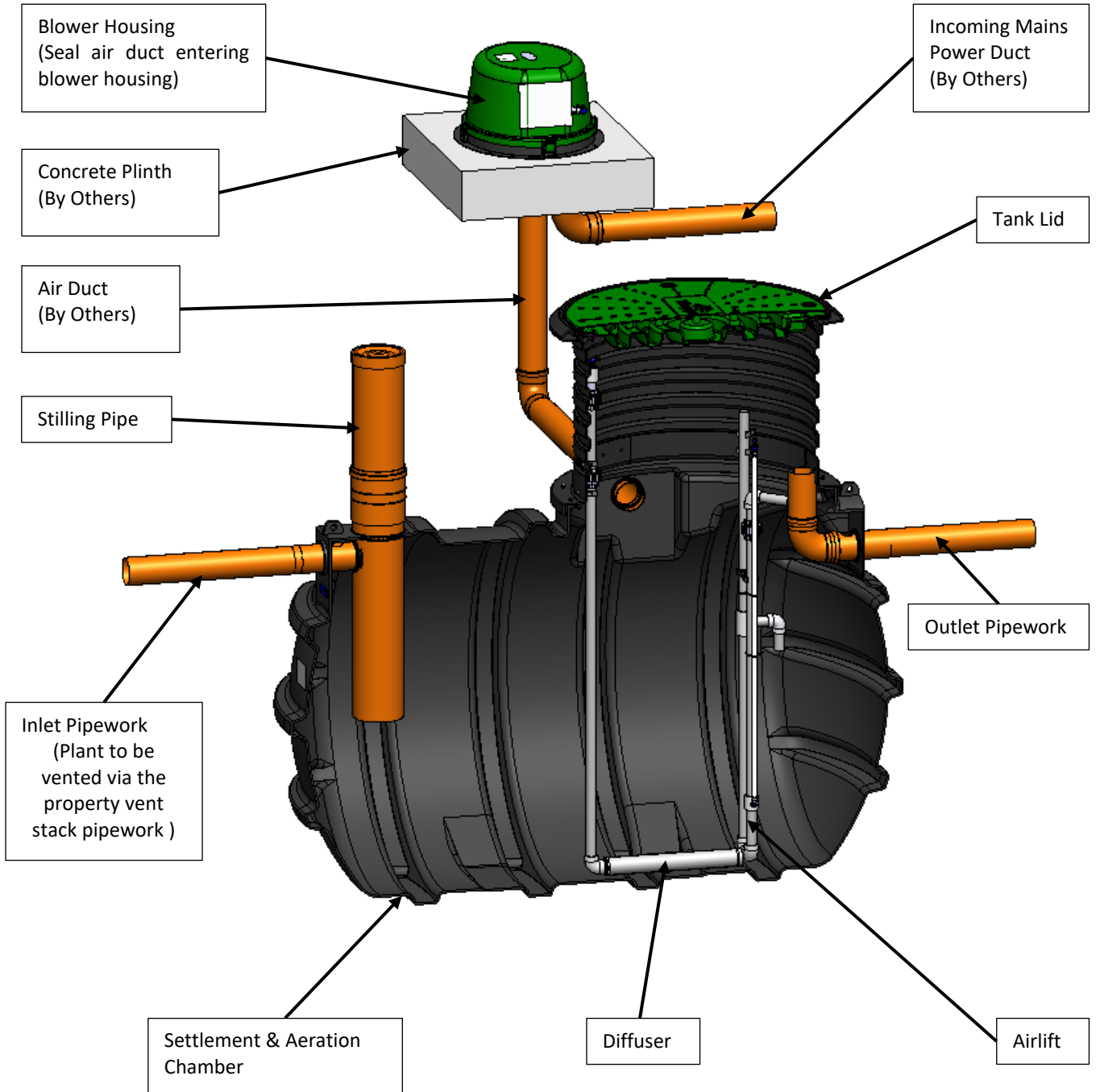
Model	BioTec+ 2	BioTec+ 3
<b>App. Desludge Volume</b>	2500 Litres	3250 Litres
<b>Desludge Period</b>	12 Months	12 Months

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## SYSTEM OVERVIEW

Pictorial representation below indicates basic requirements for a standard system.



## BioTec+ CHECKLIST

The delivery paperwork will have 2 no. items listed; check that the Tank Code (Item 1) & Blower Assembly Code (Item 2) are the same as the codes on the units delivered.

Example:

Top Level Product Code - (code)

Item 1 - (code) - (Tank Code)

Item 2 - (code) - (Blower Assembly Code)

The unit will be fitted complete with internal pipework and equipment. Inlet pipework will be fitted. The unit is supplied strapped to a standard pallet.

### Sewage Treatment Tank

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Item 1

NB: Storage tanks vary in design and volume (BioTec+ 2, BioTec+ 3 & BioTec+ 5). Please check your order and cross reference with relevant sales drawing. (BioTec+ 2 shown).



### Blower Housing Assembly

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Item 2

The Blower Assembly consists of the Blower Unit and control panel – Gravity Tank  
The Blower Assembly consists of the Blower Unit, control panel and HLA – IPS Tank



### 13 mm Hose Coil - 15 Metres

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13mm Hose with connector in Blower Housing required to connect to Air Diffuser Manifold located with the Tank (Supplied inside Blower Housing Packaging).



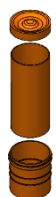
13mm Hose required to connect from 1/2" Hose Connector in Blower Housing to Airlift Manifold located with the Tank (Supplied inside Blower Housing Packaging). Gravity tank.



### Stilling Pipe Kit (supplied by others)

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Ø200mm PVC pipe 600mm length, Ø200 PVC U Blanking Cap and Ø200 PVC-U Single Socket to connect to the stilling pipe on tank.



## SELF HELP

To minimize the need for dealing with emergency situations we recommend that Sewage Treatment Plants have a Pre-service Agreement Inspection, and then is regularly serviced by us or an approved Service Engineers. Provided that your plant is installed, operated correctly and serviced, you should not need to get into much – if any – self-help. However, some of the most likely question and answer situations are listed below.

### Blower Failure

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#### Blower Stopped:

- Check the unit is switched on, the incoming power supply circuit and fuse.

#### Blower works but no water distribution inside the plant:

- Check hose connections.
- Check distributor heads.
- If the air lift pipes are suspected to be blocked, call for service which number and other details you can find on the back page of this manual.
- Check regulating valve is not closed.



### Plant flooding

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- Check for blocked outlet system.
- If pumped outlet is all right, check for pump operation, check floats and pump power supply.

### Plant odour

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- Check blower working.
- If blower working, plant probably needs desludging.
- Check vent circuit is clear.
- **Check that the air duct entering the blower housing has been sealed with foam.**

### DO's



**Do** take out a service agreement and let the experts look after your plant.

**Do** contact us for advice if you have any cause for concern. All contact details are at the end of this manual.

**Do** only flush the 3 P's (Pee, Poo & Paper)

### DON'TS



**Don't** pump feed the plant without seeking advice from Kingspan or installer.

**Don't** use a waste disposal unit as you will be adding to the biological load, and your system may not be large enough to cope with the waste. If you are unsure, please refer to our sales team for guidance.

**Don't** throw any medicines down the toilet.

**Don't** empty large quantities of bleach or similar cleaning reagents into the system.

**Don't** empty cooking oil or similar down the sink.

**Don't** cover the plant with soil material or prevent access for service and desludging.

**Don't** try to enter the plant.

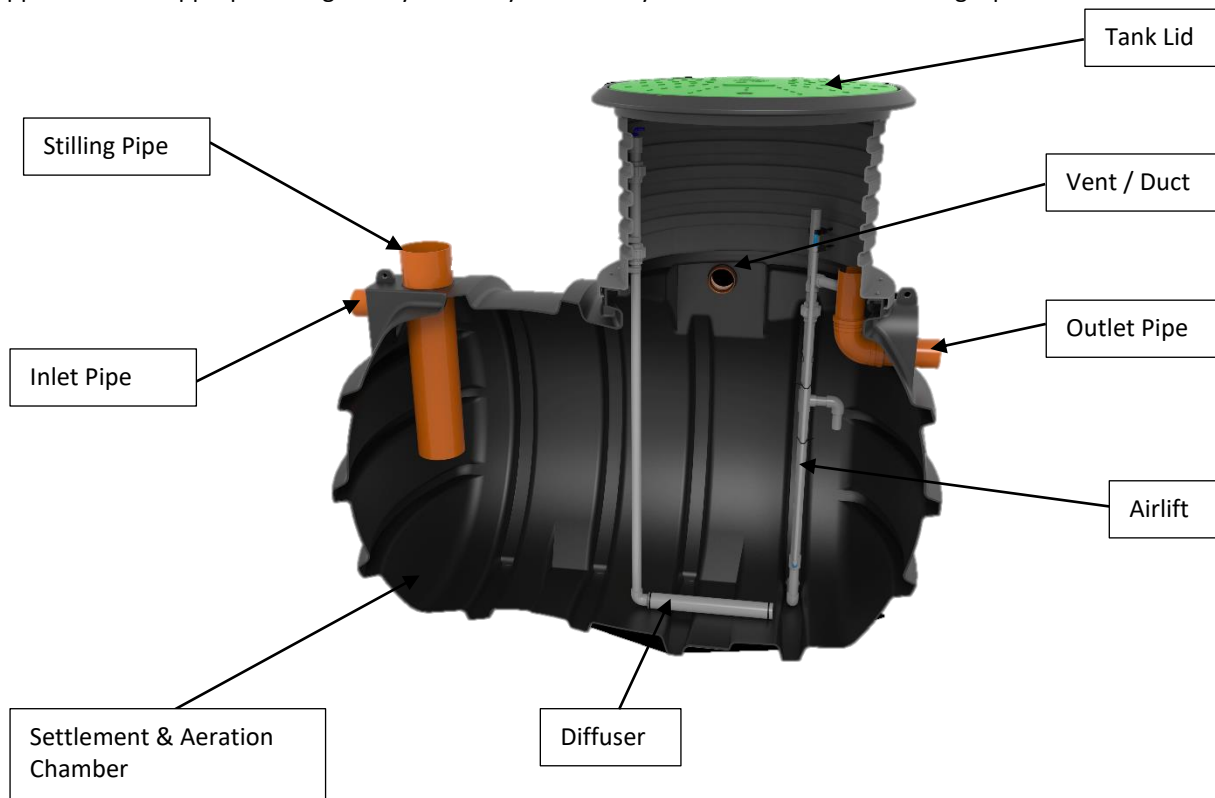
**Don't** discharge backwash from Hot Tubs and Swimming Pools into the plant.

**Don't** put sanitary towels, incontinence pads, nappies, tampons, or other non-biodegradable items down the toilet.



## DESCRIPTION AND PROCESS

BioTec+ systems are designed to accept crude domestic sewage (please follow our does and don'ts policy for trouble free operation) and produce an effluent of suitable quality for discharge to a watercourse or soak-away system, subject to the approval of the appropriate regulatory authority. BioTec+ systems are self-contained single piece units.



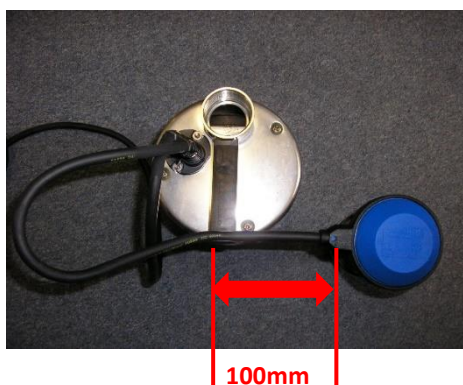
The main casing and cover of the BioTec+ are constructed of Medium Density Polyethylene.

Crude sewage enters the BioTec+ through an inlet pipe in the side of the Bio BioTec+. Here, the sewage is aerated via a diffuser at the bottom of the reactor. Naturally occurring micro-organisms form part of this aerated mixture and will efficiently break down the pollutants in the sewage.

After a period of time, aeration stops and solids will settle in the bottom of the tank. Clearwater removal is airlifted from the tank to the outlet pipe (except units with an Integral Discharge Pump). Periodic desludging is required when solids build up starts to impact effluent quality.

### Optional Integral Discharge Pump

The discharge pump sits within a moulded chamber, positioned in the reactor. Clearwater removal is effected by a submersible pump, which switches off when the liquid level has been sufficiently lowered, thus protecting the pump from running dry. A high level alarm is fitted to all pumped outlet units.



### Float Setting

The float cable length is pre-set during assembly to a dimension of 100mm. Check that this dimension has not been altered. If for any reason the cable becomes disconnected from the retaining clip it should be replaced so that there is 100mm of cable between the clip and the float.

Note: Setting less free cable will cause the pump to operate more frequently and may shorten its working life.

**Important:** With the pump chamber empty of water the float must hang clear of the chamber floor. The correct float position and distance is essential. The float must not be able to either trap or tangle, as this will prevent its correct operation. The float must not jam.

## INSTALLATION

Our domestic treatment plants are structurally tested in accordance with EN 12566-3, which specifies structural stability testing for both wet and dry sites using granular backfill 3-8mm. However, in GB & IRE it would be typical for tanks to be installed in concrete due to rising water table, and it can generally be assumed that buoyancy prevention of concrete backfill is more advantageous than the granular backfill materials used in testing.

During installation, care must be taken to ensure the body of the unit is uniformly supported to avoid point loads on the unit.

A water supply must be available on site to enable the unit to be ballasted during backfilling.

When units are installed in unstable ground conditions where movement of the surrounding material and/or unit may occur, the connecting pipework must be designed to minimise the risk of damage from differential movement of the unit(s) and/or surrounding material.

In situations where the excavation will not maintain a vertical wall, it will be necessary to support side walls of the excavation (E.g., with suitable trench sheets and bracing systems) from the bottom to the top. DO NOT completely remove the shoring system until after the backfilling is complete, but before the concrete fully hardens.

If there is a risk of a high-water table or of the site flooding, a structural design by a suitable specialist will be required to hold the tank in place.

In areas where the water table is above the bottom of the excavation and/or the excavation is liable to flood, the excavation must be de-watered, using suitable pumping equipment, until the installation is complete. Ensure that the pump discharge does not saturate the ground in the immediate vicinity. In such conditions it may be advisable to line the excavation with polythene sheeting, to prevent cement being washed out of the concrete surround/base.

Concrete Specification below is a *general* specification. It is not a site-specific installation design.

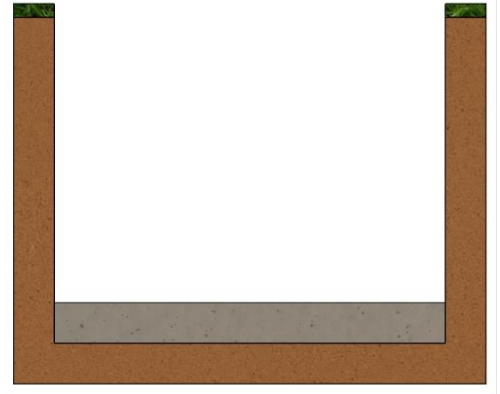
GENERAL CONCRETE SPECIFICATION IN ACCORDANCE WITH BS EN 206-1 (BS 8500-1)	
TYPE OF MIX	(DC) DESIGN
PERMITTED TYPE OF CEMENT	BS 12 (OPC): BS 12 (RHPC): BS 4027 (SRPC)
PERMITTED TYPE OF AGGREGATE (coarse & fine)	BS 882
NOMINAL MAXIMUM SIZE OF AGGREGATE	20 mm
GRADES:	
C25 /30	REINFORCED & ABOVE GROUND WITH HOLDING DOWN BOLTS
C25 /30	REINFORCED (EG. FOR HIGH WATER TABLE)
C16 /20	UNREINFORCED (NORMAL CONDITIONS)
MINIMUM CEMENT CONTENT:	
C30 C20	270 - 280 Kg/M <sup>3</sup>
	220 - 230 Kg/M <sup>3</sup>
SLUMP CLASS	S1 (25mm)
RATE OF SAMPLING	READY MIX CONCRETE SHOULD BE SUPPLIED COMPLETE WITH APPROPRIATE DELIVERY TICKET IN ACCORDANCE WITH BS EN 12350-1
NOTE: STANDARD MIXES SHOULD NOT BE USED WHERE SULPHATES OR OTHER AGGRESSIVE CHEMICALS EXIST IN GROUND WATER	

## 1. Excavate Hole & Lay Concrete Bed

- Approximate dimensions of units:

Unit	Inlet Invert (mm)	Diameter (mm)	Unit Height (mm)	Length (mm)	Water Fill Volume (m <sup>3</sup> )
<b>BioTec+ 2</b>	935	1540	2285	2480	3.02
<b>BioTec+ 3</b>	1020	1690	2540	2480	4.15

- Excavate a hole with clearance on all sides and base of the unit of 150 – 200 mm, depending on site conditions.
- If shuttering is required to maintain a vertical wall, increase the width of the excavation to accommodate.
- If the excavation has an unstable base, excavate an additional 250 – 300 mm and fill with compacted hard-core.
- If water is present in the excavation, de-water using suitable pumping equipment. Place a sheet of polythene over the base and up the sides of the excavation before creating the concrete slab.
- A minimum base of 150 – 200 mm of lean mix concrete is required for all ground conditions. The installer must ensure that the base is adequate to support the weight of the tank and its contents.
- It is recommended to backfill with C25 SEMI-DRY MIX.

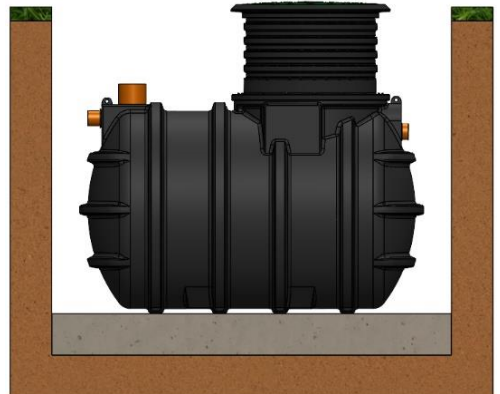


## 2. Lower Unit onto Concrete & Ensure Level

- Approximate weights of units in kilograms, depending on inlet invert:
- Lower the tank into the hole. Fit an approximately sized 'D' shackle (supplied by others) to the two lifting points on the tank and fit appropriate lifting slings to the 'D' shackles.

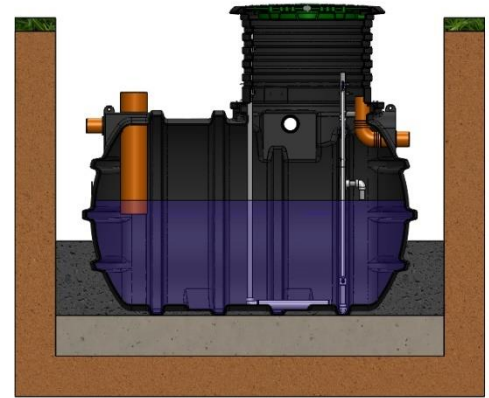
Unit	Weight (Gravity / IPS)
<b>BioTec+ 2</b>	165 / 180 kg
<b>BioTec+ 3</b>	185 / 200 kg

- The slings must not be attached to the inlet or the outlet pipe.
- Tank must not be lifted with any water inside.
- Check the Inlet and Outlet pipe orientation is correct.
- Check the unit is levelled.



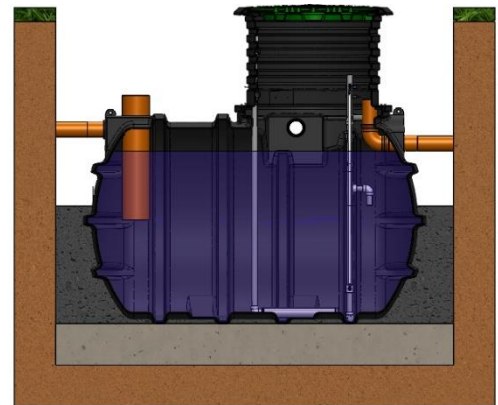
### 3. Backfill the Tank Unit

- The backfilling must start before the base has hardened and must be a single continuous operation, so the tank has a full concrete jacket without joins.
- The backfill must be free from organic material, large stones, brick, or sharp objects.
- Backfilling must be carried out in layers, making sure that voids are not left under or around the sides of the tank and there are no localised stress concentrations.
- The installer must progressively fill the tank via a hose while keeping the water level 300 mm above the backfill to stabilise pressures on the tank. **If the pressures are not stable the tank can become distorted and damaged.**



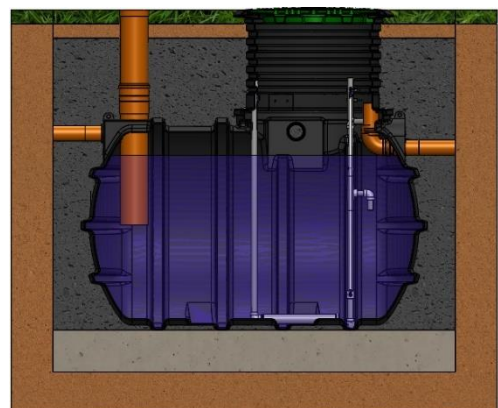
### 4. Second Backfill Stage

- Continue to fill the tank with water and backfill evenly around the tank, consolidating in 300 mm layers.
- DO NOT use vibrating pokers to consolidate concrete.
- DO NOT discharge concrete directly on to the tank.
- Ensure that the concrete is not too wet and that it's tampered in around the tank.
- Continue until just below inlet and outlet pipework.
- Remove covers and connect inlet and outlet pipework.
- A 110mm diameter multipurpose vent and air duct hose is located on the side of the plant. A T-piece must be connected so the unit can be vented, and the air hose connected to the blower housing.
- The vent side of the T-piece to be taken above ground and suitable vent mushroom fitted. Installer must ensure adequate venting is provided for the treatment plant to work efficiently.
- The air hose side of the T-piece to be run back to the blower housing and sealed with expanding foam to avoid foul air recirculation into the plant. The ducting for the air hose must connect through an independent concrete base for blower housing location. The duct must be laid with long radius bends to enable the hose to be threaded through.



### 5. Final Stage

- A 200mm diameter stilling pipe is located on the top of the plant. A 200mm PVC socket, cap and pipe must be connected to the stilling pipe, so that the cap is same level as top of lid.
- Continue to concrete backfill up to 100 mm below the lip of the cover.
- Backfill up to lip with soil.
- Once the unit has been installed, it must be left filled with water.
- Connect the hoses to the internal diffuser and airlift (in the case of a gravity tank ) via the cable duct in the tank. Connect to the internal ½" hose tail at the top of the diffuser and airlift assemblies, secure in place with jubilee clips.
- Complete electrical connections for control panel as shown in the electrical installation section.



### Blower Housing Installation

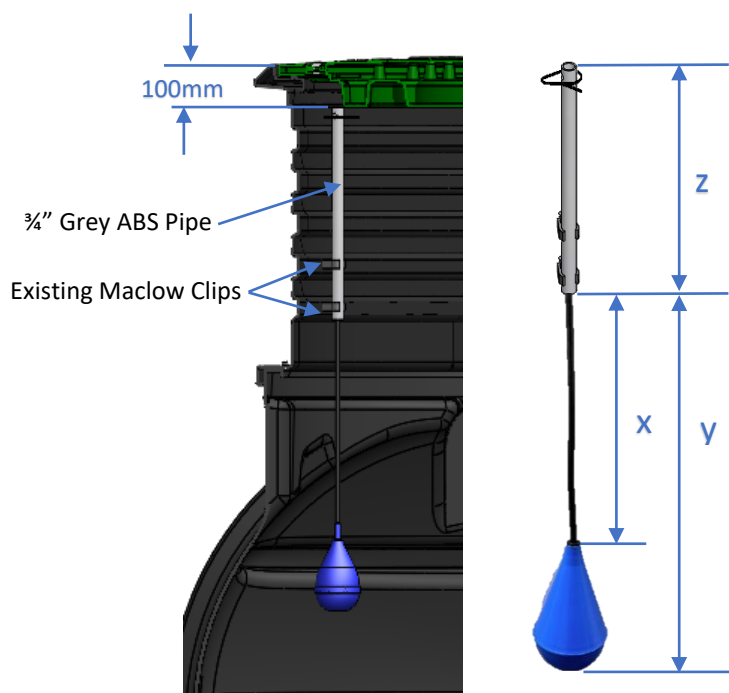
The blower housing slab should be located 3 to 13 metres from the outlet end plant such that the 15 metres of air hose provided is sufficient. The concrete base should be 150mm thick and must be large enough to accommodate the blower enclosure.

Preferably the location for siting the blower should be shaded. Once the air hose(s) is connected to the blower, the duct through which it has entered should be sealed with spray foam.

Where pumped outlets are included, electrical cable is provided with the pump. The cable may need to be extended using a junction box to reach the control panel, via the airline duct (depending on the distance to the blower housing from the treatment plant).

### High Level alarm Installation

1. Remove the loose float located in the blower housing.
2. For shallow inverts, trim  $\frac{3}{4}$ " grey ABS pipe (from bottom end to keep hole in pipe) to dimension 'z' shown in Table 1.
3. Thread the float cable through the hole in the  $\frac{3}{4}$ " ABS pipe to the dimension shown in the Table 1 below for the suitable tank.
4. Fit  $\frac{3}{4}$ " pipe to maclow clips (existing in tank) as shown.  $\frac{3}{4}$ " Pipe 100mm from top of neck.
5. Attach connection end of float cable to draw string and pull float cable through ducting to control panel.
6. Ensure the operation of the float will not foul on any pipework.
7. When alarm is activated, check control panel for fault code.



Tank	Inlet Invert (mm)	x (mm)	y (mm)	z (mm)
BioTec+ 2	935	510	685	500
	765	510	685	330
BioTec+ 3	1020	595	770	500
	850	595	770	230

Table 1

## ELECTRICAL INSTALLATION

### Control Panel Installation

Your BioTec+ will be supplied with a control panel, with an isolator switch. This is for electrical control of the unit.

It is imperative that the electrical installation of this equipment is entrusted to a competent qualified electrician working to the latest IEE regulations.

It is not possible to state a specific installation configuration that would suit all sites. The selection of current protection devices must remain the responsibility of the installer who should select a suitable cable and current overload protection, taking into account the distance from the power source to the unit and any other relevant factors. (In many cases steel wire armoured (SWA) cable, minimum 1.5 sq mm will be suitable).

When installing the electrical supply to the unit, the following points should be considered:

The electric power supply to the tank should be by means of a dedicated circuit with isolation and protection devices consistent with the requirements for fixed equipment and in accordance with the latest regulations of the Institute of Electrical Engineers. This power supply should be independent of all other household protection devices other than the supply authority's main fuse and that provided specifically for the power supply. In particular, earth leakage devices provided for normal domestic protection must not form part of the supply circuit to the tank.

An earth leakage circuit breaker should be incorporated in the supply to the unit. A device with 30mA minimum trip current is recommended.

### General Installation

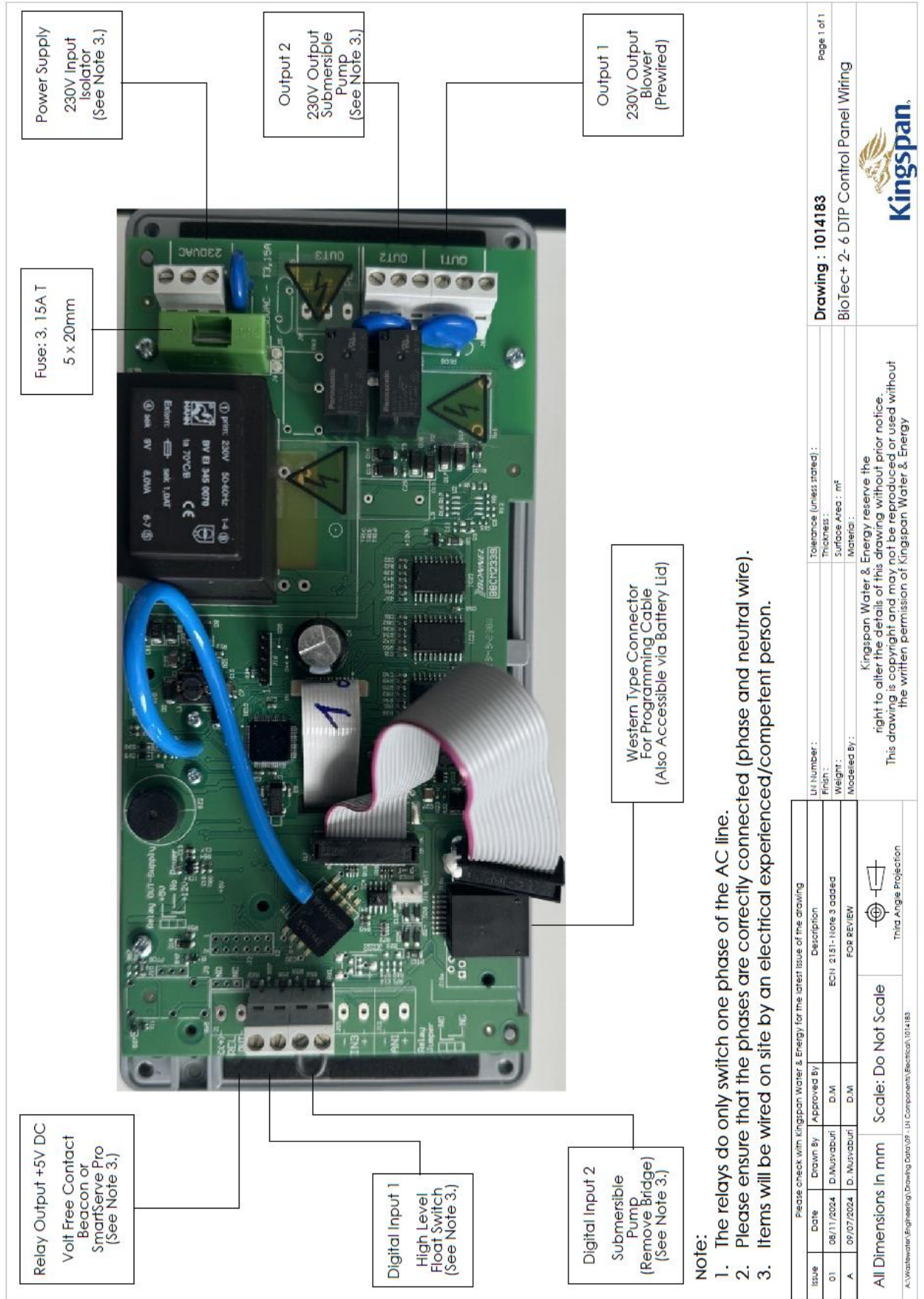
The control panel must not be adjacent to the plant. It can be mounted in the blower housing (supplied with BioTec+). It should be positioned so it cannot be reached by someone standing in or on the unit. It would be advisable to situate the control panel in a frequently viewed position, so if a fault alarm appears it will be seen. The control panel comes pre-fitted within the blower housing, for location elsewhere please consult the Klargester engineering team.

### Blower Housing with Control Panel



Please refer to Manual 1014336 for details on wiring and setting up the control panel

BioTec+ Control Panel Wiring Diagram



- Note:**
1. The relays do only switch one phase of the AC line.
  2. Please ensure that the phases are correctly connected (phase and neutral wire).
  3. Items will be wired on site by an electrical experienced/competent person.

Please check with Kingspan Water & Energy for the latest issue of the drawing		UI Number:	Tolerance (unless stated):	
Issue	Date	Drawn By	Approved By	Thickness:
01	06/11/2024	D. Muvaburi	D.M	Surface Area: m <sup>2</sup>
A	09/07/2024	D. Muvaburi	D.M	Material:
All Dimensions in mm		Scale: Do Not Scale	Third Angle Projection	
		Kingspan Water & Energy reserve the right to alter the details of this drawing without prior notice. This drawing is copyright and may not be reproduced or used without the written permission of Kingspan Water & Energy		
		Drawing : 1014183 BioTec+ 2- 6 DTP Control Panel Wiring		
		page 1 of 1		



## MAINTENANCE

Every sewage treatment plant needs regular maintenance as does the upkeep of drainage fields and drains. This is the responsibility of the owner/user.

We recommend that plants are maintained by qualified service personnel, however some self-help and an awareness of normal operation is helpful in identification of a larger problem.

If the plant appears not to be operating correctly, refer to the Fault-Finding section of this manual.

### MAINTENANCE SCHEDULE

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#### MONTHLY

Check the operation of the compressors (bubbles should be rising in the reactor).

Visually check that the inlet and outlet zones are clear of debris.

Odour from the plant should be 'earthy' and hydrogen sulphide odours ('rotten eggs') should not be present.

Visually check the final effluent. If cloudy or containing many suspended particles, then the humus and or primary tank is likely to require desludging.

#### THREE MONTHLY

Assess the sludge build up in the reactor .

Check the blower filter and replace if necessary. Note. The filter will collect dirt particles from the air and the location of blower/inlet will influence the frequency of filter change.

#### TWELVE MONTHLY

The desludging frequency will be approximately 12 months.

Follow de-sludging procedure on page 4.



## WARRANTY

The company will replace or, at its option, properly repair without charge any goods which are found to be defective and which cause failure in normal circumstances of use **within a period of twelve months from the date of delivery.**

This warranty is conditional upon:

- (a) The Buyer notifying the Company of any claim within Seven days of the failure becoming discernible.
- (b) The Company being allowed a reasonable opportunity to inspect the goods so as to confirm that they are defective.
- (c) The goods not having been modified, mishandled or misused and being used strictly in accordance with any relevant instructions issued by the Company.

The Company's liability under this Clause is limited to the repair or replacement of the defective goods, and does not cover costs of transport, installation or associated site costs, if applicable.

The Company's liability to replace or repair the goods is in lieu of and excludes all other warranties and conditions, and in particular (but without limitation) the Company shall have no liability of any kind for consequential loss or damage.

Please register your unit for warranty following the QR Code or website below. Please complete ALL sections of the form and submit. **\*Terms & Conditions Apply. To avail of your extended warranty, you must register within 3 months of purchase.**



[https://kingspanwaterandenergy.formstack.com/forms/klargester\\_warranty\\_form\\_en\\_gb](https://kingspanwaterandenergy.formstack.com/forms/klargester_warranty_form_en_gb)

Also within this manual is a **Notice**, describing the necessary maintenance for the plant. This should be fixed within the building.

For any further advice, please contact our Service & Warranty department on +44 (0) 844 225 2785. It would be helpful if you provide your equipment serial number.

## FAULT FINDING

### 1. BLOWER NOT RUNNING

**Cause**

Power cut

**Remedy**

Do nothing. When power is restored, the system will restart automatically.

Power supply RCD (Residual current Device) tripped

Check Mini Circuit Breaker on electrical supply board

Isolate the power supply and reset the RCD

Switch on the blower, which should start automatically

If not, switch off the power and call an electrician

### 2. NO EVIDENCE OF AIR BUBBLES RISING THROUGH THE SLUDGE

**Cause**

Blower not running

**Remedy**

Refer to fault condition 1

Contact our Service company (Details on back cover)

### 3. SLUDGE NOT MOVING

**Cause**

Blower not running

**Remedy**

Refer to fault condition 1 Contact Service company

### 4. ODOUR

**Cause**

Blower not running

**Remedy**

Refer to fault condition 1 Contact service company

Time for a Desludge

Remove sludge from Biozone and final compartments (see desludge instructions)

## NOTICE



### BioTec+ Treatment Plant

The foul drainage from this property discharges to a Treatment Tank and an irrigation system / soak-away.

The tank requires monthly inspections of the outlet chamber or sample chamber to observe that the effluent is free-flowing and clear. The soak-away should also be inspected regularly.

The Sewage Treatment tank requires emptying at least once every 6 months (based upon plant being fully loaded) by a licensed contractor.

**THE OWNER OF THE PROPERTY IS LEGALLY RESPONSIBLE FOR ENSURING THAT THE SYSTEM DOES NOT CAUSE POLLUTION, A HEALTH HAZARD OR A NUISANCE.**

We recommend that a separate log is kept of all service visits, the log should detail the date and any action taken, e.g. regular maintenance service and de-sludge volume removed.

This notice should be fixed by the owner within the building alerting current and future owners to the maintenance requirement.

**Please contact Kingspan Water and Energy to arrange a maintenance service or to request replacement operating instructions.**

**Kingspan Water & Energy Service Contact Numbers:**

**GB: 0333 240 6868**

**NI: 028 3836 4600**

**IRL: 0818 543 500**

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# Contact Details

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## UK

**Kingspan Water & Energy Ltd.**  
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