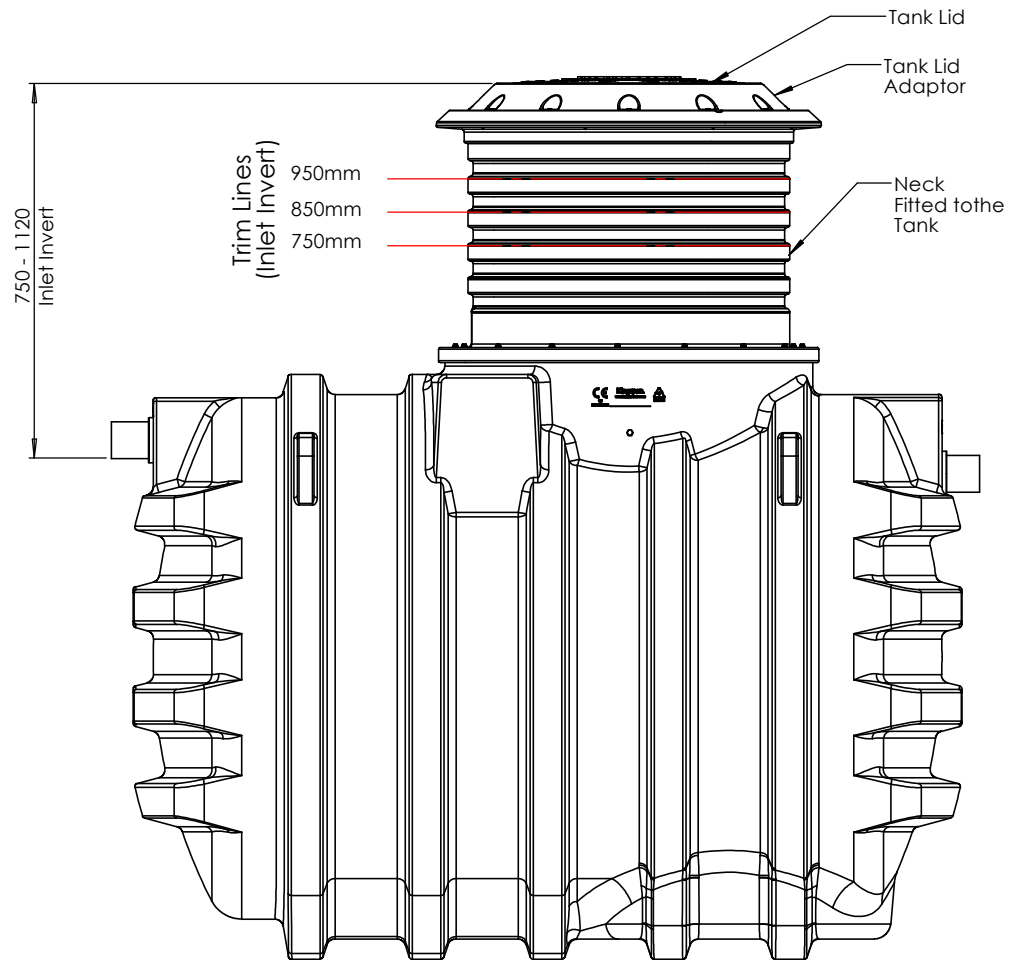


BioAir 2



BioTec+ 3

Please check with Kingspan Water & Energy for the latest Issue of the drawing

Issue	Date	Drawn By	Approved By	Description
02	18/06/2025	D. Musvaburi	D.M	ECN 2170 - Neck changed, Adaptor added
01	23/03/2023	D.Owen	D.Owen	Initial Issue

Modelled By : W.Dönheim  
Weight : 170 kg  
Material : Various

Tolerance (unless stated) : +/- 1 mm  
Thickness : n/a  
Surface Area : m²

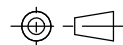
**Drawing : DS1415P**

Page 1 of 4

BioAir 2 & 3 Neck Extension/Trimming Detail

All Dimensions In mm

Scale: Do Not Scale

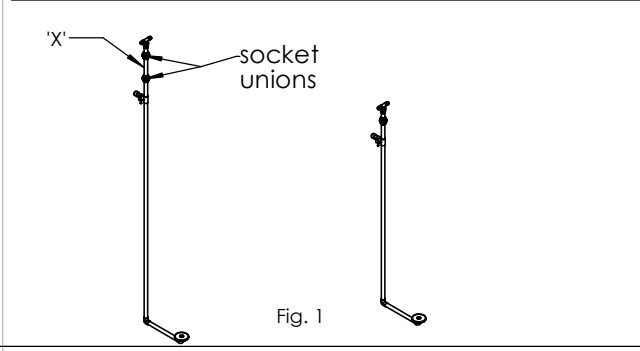
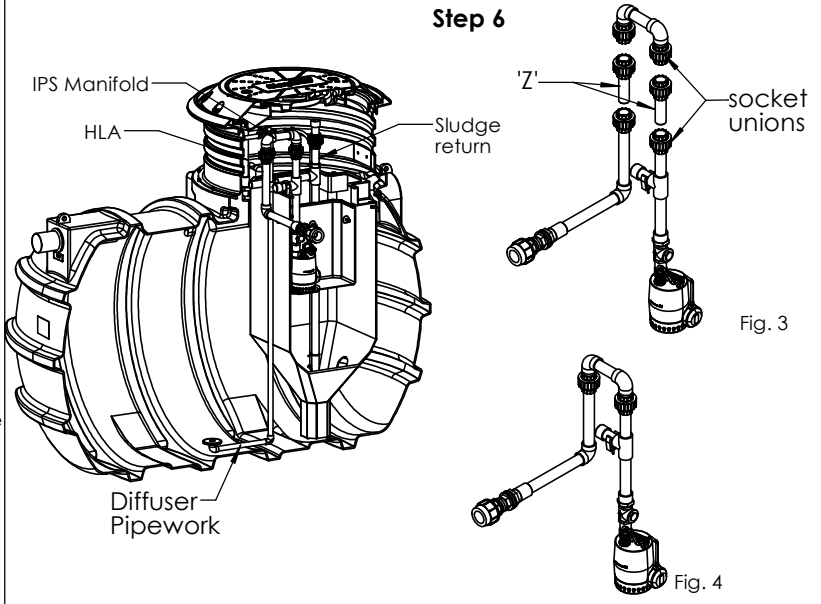
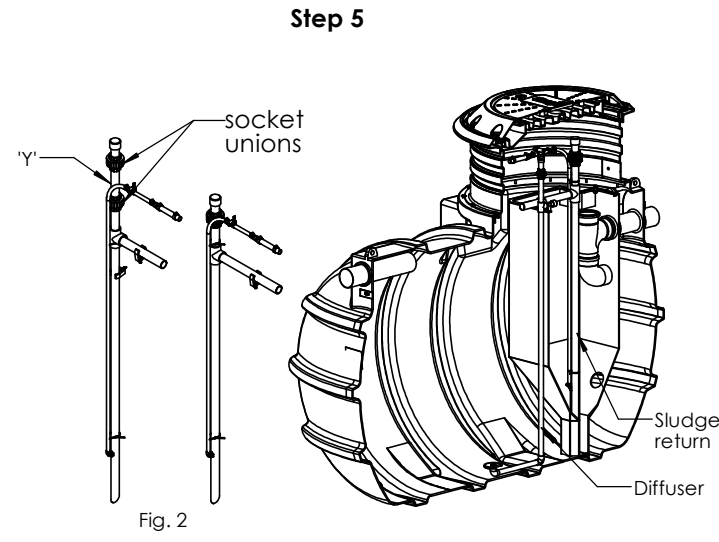
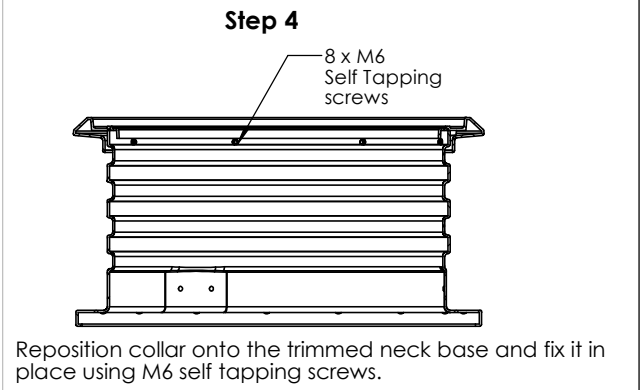
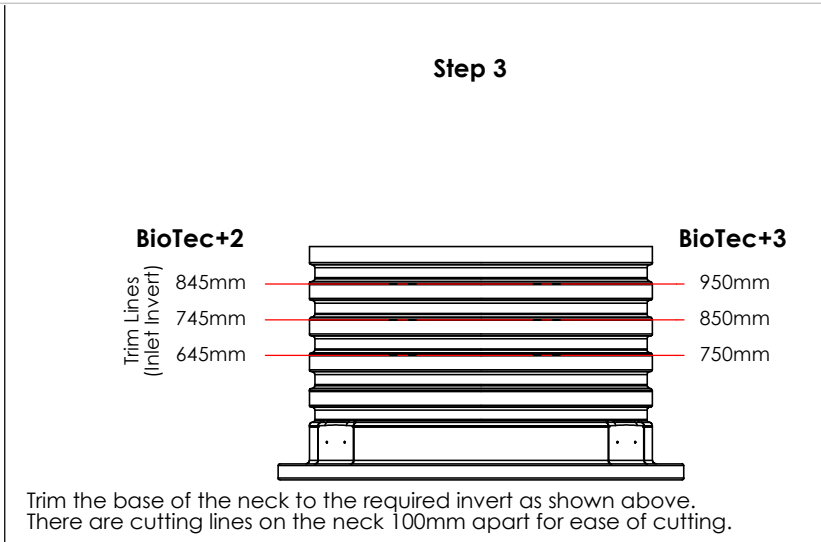
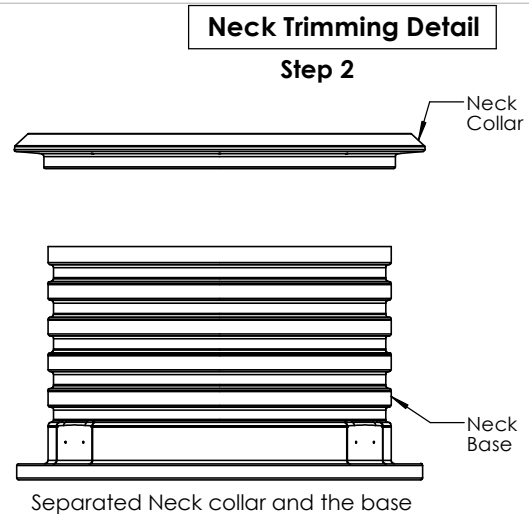
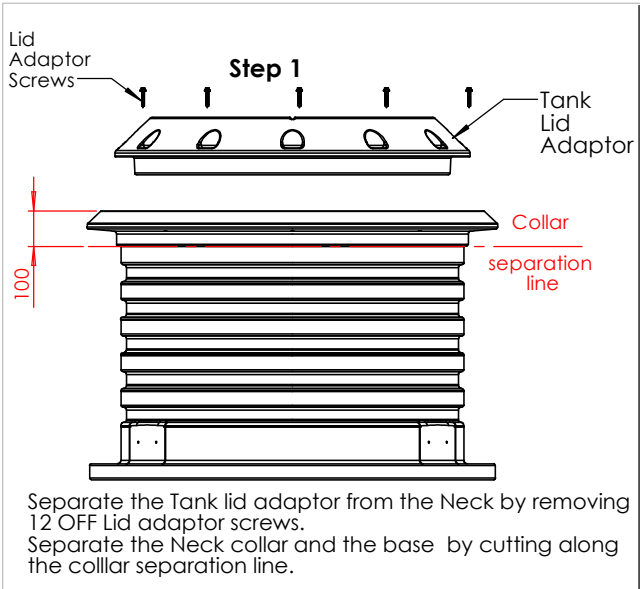


Third Angle Projection

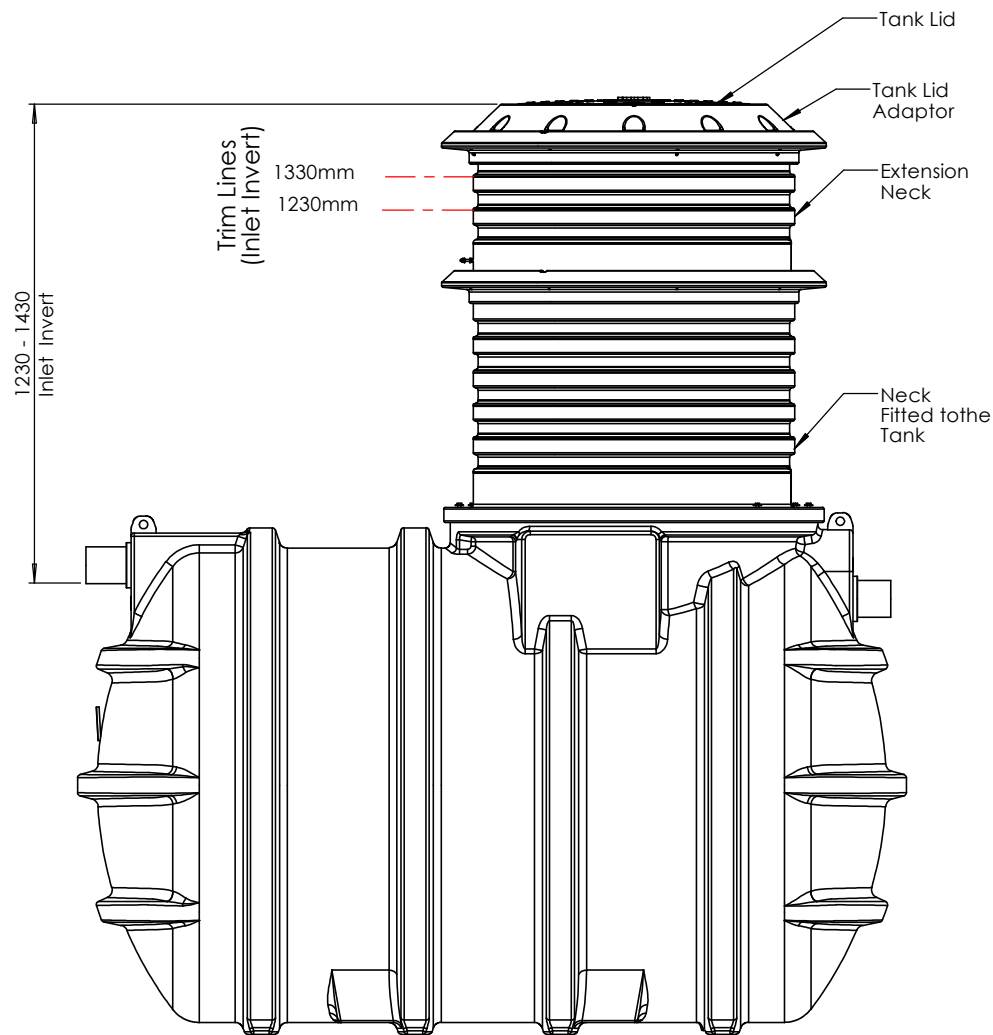
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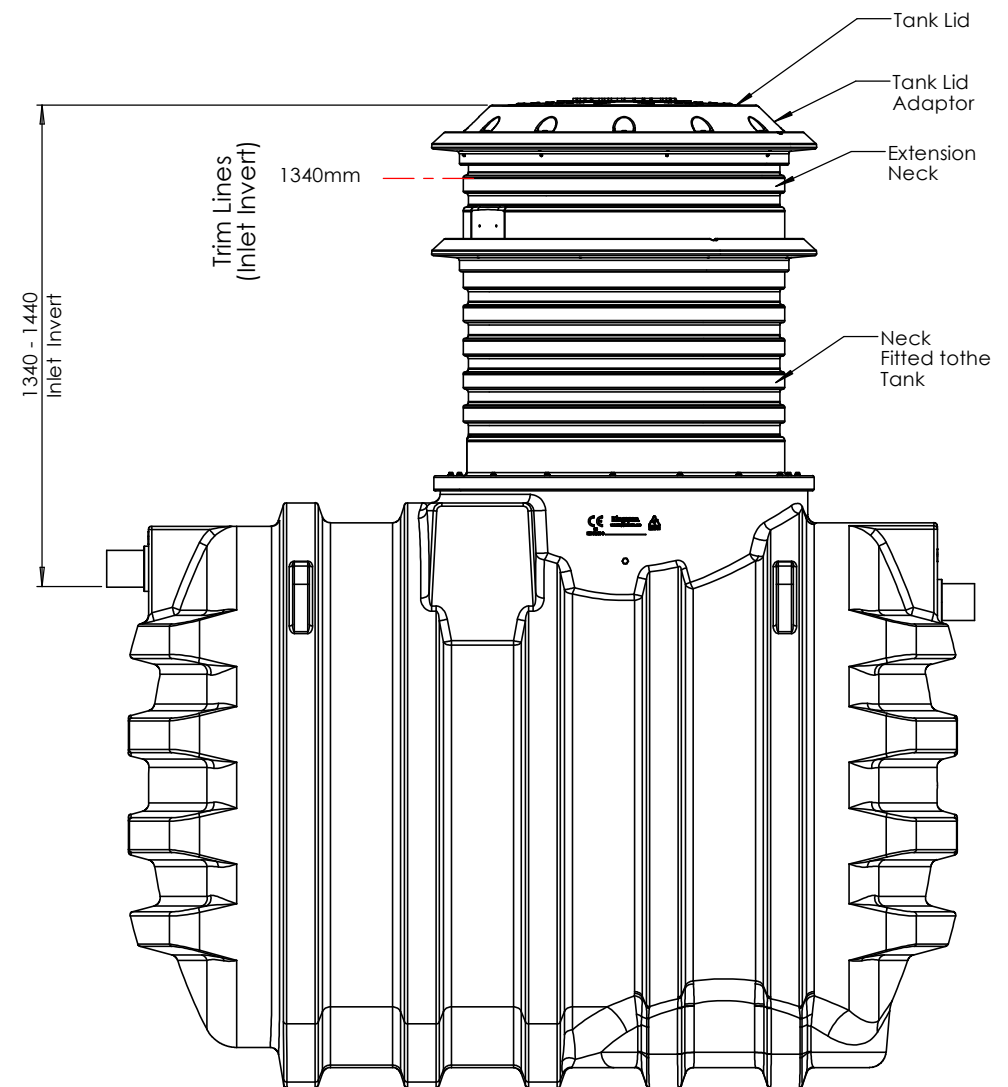


Modelled By : W.Dönheim	Tolerance (unless stated) : +/- 1 mm	<b>Drawing : DS1415P</b>	Page 2 of 4
Weight : 170 kg	Thickness : n/a	<b>BioTec+2 &amp; 3 Neck Extension / Trimming Details</b>	
Material : Various	Surface Area : m²		



### BioAir 2

For invert from 1230 mm to 1430mm order :  
 1 OFF **BIAEXT2G** for Gravity Tank - LN 1015529  
 1 OFF **BIAEXT2P** for IPS Tank - LN 1015531



### BioAir 3

For invert from 1340mm to 1440mm order:  
 1 OFF **BIAEXT3G** for Gravity Tank - LN 1015530  
 1 OFF **BIAEXT3P** for IPS Tank - LN 1015532

Modelled By : W.Dönheim  
 Weight : 170 kg  
 Material : Various

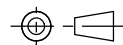
Tolerance (unless stated) : +/- 1 mm  
 Thickness : n/a  
 Surface Area : m²

**Drawing : DS1415P**

Page 3 of 4

All Dimensions In mm

Scale: Do Not Scale



Third Angle Projection

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## Neck Extension Detail

1. Remove the lid supplied with the tank.
2. Remove the Tank lid adaptor by removing the 12 OFF Tank lid adptor screws
3. The neck fitted to the tank is **NOT** removed.
4. On the Extension neck , separate the Extension neck collar from the Extension neck Base by removing the 8 OFF M6 Self Tapping screws (refer to Step 4 on page 2).
5. Trim extension neck to required invert shown on page 3 (refer to Step 3 on page 2).
6. Reposition Extension neck collar onto the trimmed neck base and fix it in place using the 8 Off M6 Self Tapping screws (refer to Step 4 on page 2).
7. Extension pipework is only required for BioAir 2 1330 & 1430 Inlet inverts. Extension pipework is required for BioAir 3 1340 & 1440 Inlet inverts .
8. Where extension of pipework is not required, fit Extension neck to the tank using supplied fixings and sealant.
9. Replace tank lid adaptor and tank lid.

### 10. Diffuser Pipework:

- Remove the Diffuser pipework from the tank (Fig. 1).
- Undo top socket union and dicard pipe 'A' along with glued half of the union.
- Set aside Hosetail assembly 'Z'.
- Reassemble the Diffuser pipework with supplied Diffuser extension pipework 'B' and Hosetail assembly 'Z' (Fig. 2).

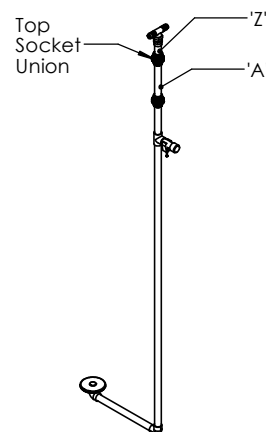


Fig. 1

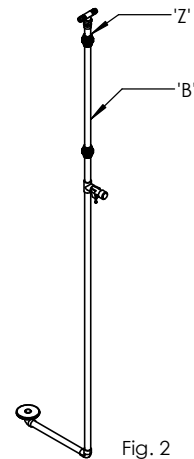


Fig. 2

### 11. Sludge Return Pipework :

- Remove the Sludge return pipework from the tank (Fig. 3).
- Undo top socket union dicard pipe 'C' along with glued half of the union.
- set aside Hosetail assembly 'W'.
- Fit the Sludge return extension 'D' onto the Airlift pipework (Fig. 4).

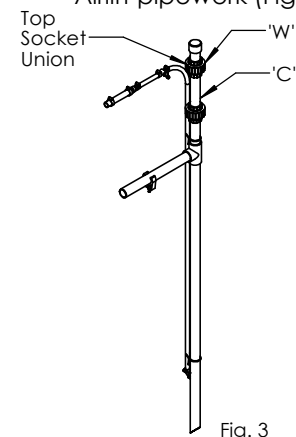


Fig. 3

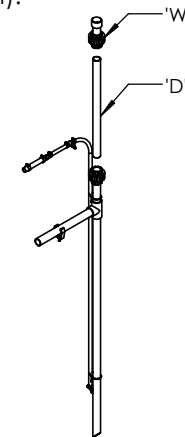


Fig. 4

### 12. IPS Tank:

- Remove the IPS pipework from the tank.
- Undo top socket unions and set aside IPS manifold 'F'.
- Reassemble the IPS pipework with supplied IPS extension pipework 'G' (Fig. 5).
- Extend HLA with HLA extension (Fig 6). Refer to installation guidelines for cable length

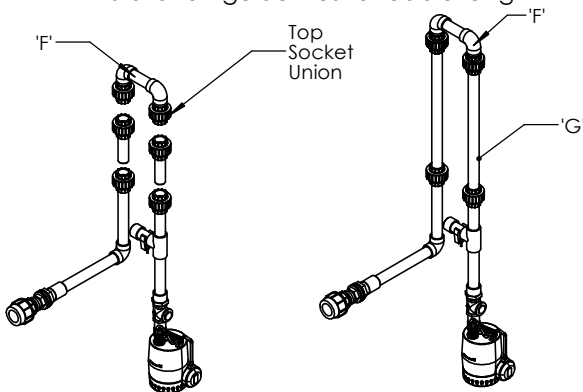


Fig. 5

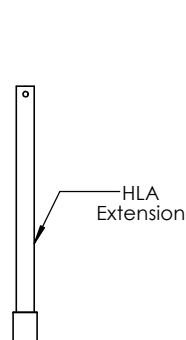


Fig. 6

### 13. Fit Extension Neck onto the neck fitted to the tank using supplied fixings and sealant.

- Fit reworked Diffuser & Sludge return pipework (Gravity tank) into the tank and fix on the macflow clips on the top lip of the FST (Fig. 7).
- Replace the tank lid adaptor and tank lid.

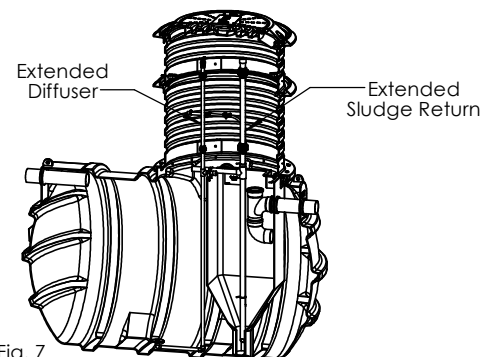


Fig. 7

### 14. Fit reworked Diffuser, HLA & IPS pipework (IPS tank) into the tank and fix on the macflow clips inside the neck of the tank (Fig. 8).

- Replace the Tank lid adaptor and tank lid.

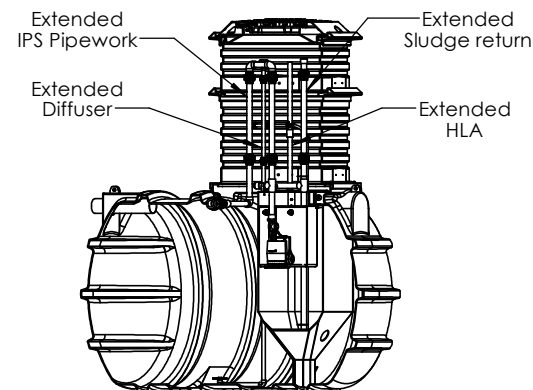


Fig. 8

Modelled By : W.Dönheim  
Weight : 170 kg  
Material : Various

Tolerance (unless stated) : +/- 1 mm  
Thickness : n/a  
Surface Area : m²

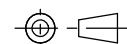
Drawing : DS1415P

Page 4 of 4

BioTec+2 & 3 Neck Extension / Trimming Details

All Dimensions In mm

Scale: Do Not Scale



Third Angle Projection

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