TREATMENT PERFORMANCE RESULTS

PIA-SR66-2402-1011

Kingspan Water & Energy Ltd.
College Road North, HP22 5EW Aylesbury, United Kingdom

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

BioDisc N-Range + BioTreat
Rotating biological contactor + biological/physical post-treatment

Nominal organic daily load (influent)	0.30 kg BOD_5/d		
Nominal hydraulic daily load	0.9 m^3/d		
Material	Glass reinforced plastic		
Watertightness	Pass		
Structural behaviour (Pit Test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency		Efficiency	Effluent
(nominal sequences)	COD	95.8 %	34 mg/l
	BOD_5	99.2 %	2.5 mg/l
	TN_b	69.4 %	17.9 mg/l
	NH_4-N*	98.4 %	0.6 mg/l
	P_{tot}	39.3 %	4.3 mg/l
	SS	99.3 %	2.6 mg/l
Electrical consumption	1.5 kWh/d		
Number of desludging	Not more than once		

** determined for temperatures ⩾ 12 ° C in the bioreactor*

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.

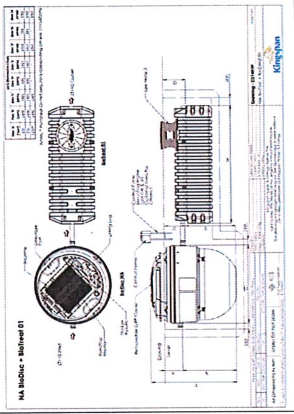
PIA – Sustainable Certification · EN 12566 · NB 1739 · confirmed · geprüft – tested · testé

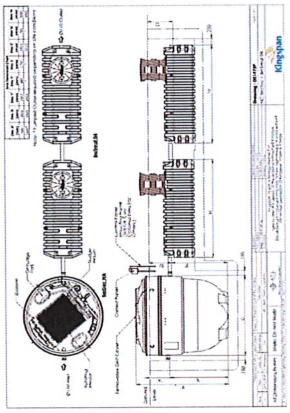
April 2024

Notified Body
No.: 1739

Certified according to
ISO 9001:2015

BioDisc N-Range + BioTreat and its referring test reports:

Population Equation (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial type test (ITT) 6		Pass PIA2012-WD-1209-1056 PIA2015-WD/NC-1503-1018.02	Pass PIA2022-407B28	Pass For wet ground conditions also, Installation depth 1.00 m from inlet invert	Pass PIA2015-DH-1503-1018.01

12		Pass PIA2012-WD-1209-1056 PIA2015-WD/NC-1503-1018.02	Pass Range conformity according to S.R. 66:2015	Pass PIA2012-ST-PIT-1209-1056 For wet ground conditions also, Installation depth 1.00 m from inlet invert PIA2015-ST-PIT-1503-1018.02 For wet ground conditions also, Installation depth 1.00 m from inlet invert	Pass PIA2015-DH-1503-1018.01

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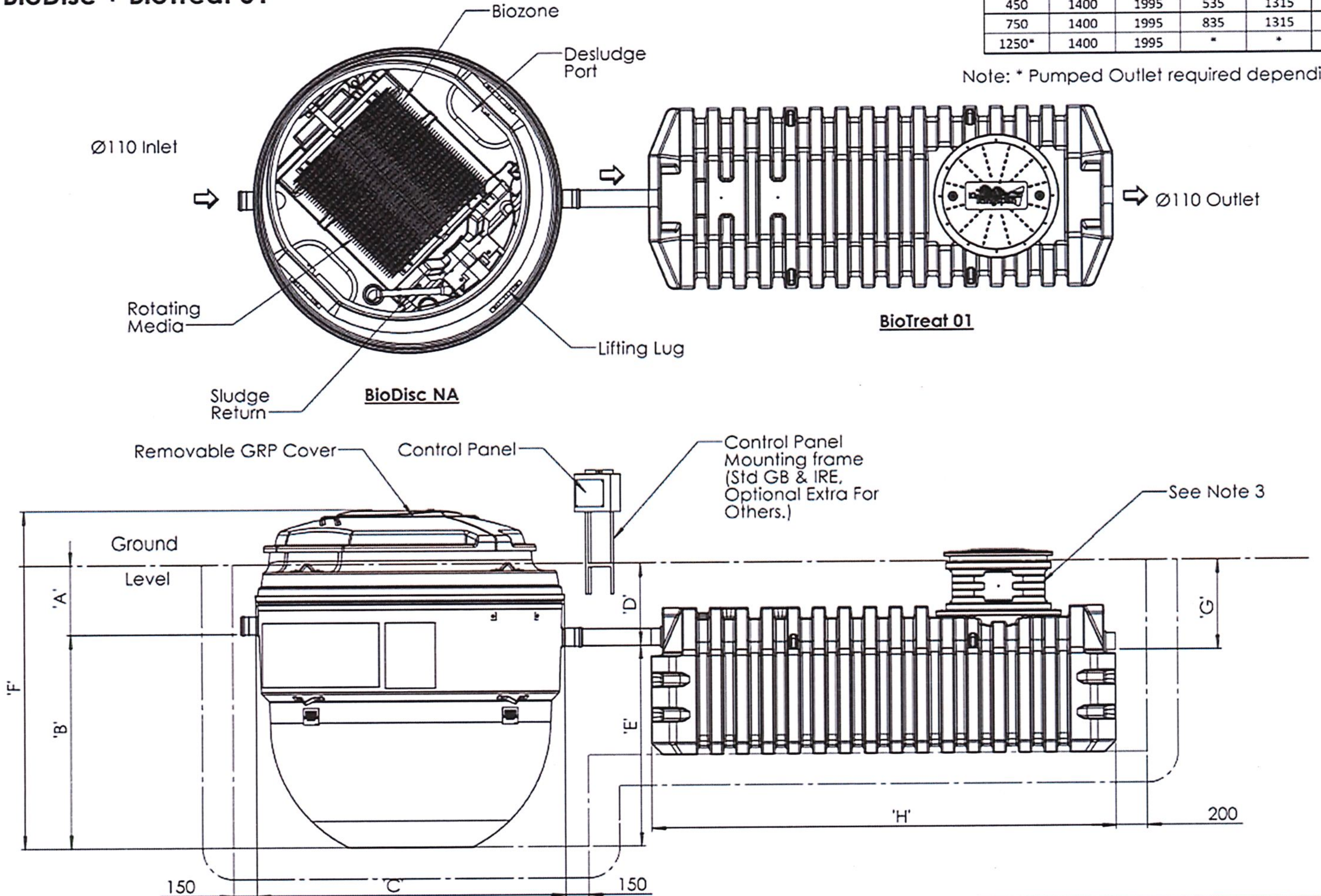
NA BioDisc + BioTreat 01

Unit Dimension Chart							
Dim 'A' (mm)	Dim 'B' (mm)	Dim 'C' (mm)	Dim 'D' (mm)	Dim 'E' (mm)	Dim 'F' (mm)	Dim 'G' (mm)	Dim 'H' (mm)
450	1400	1995	535	1315	2160	585	3000
750	1400	1995	835	1315	2460	885	3000
1250*	1400	1995	*	*	2960	*	3000

Note: * Pumped Outlet required depending on site conditions



Please check with Kingspan Water & Energy for the latest issue of the drawing				
Issue	Date	Drawn By	Approved By	Description
02	27/03/2024	D. Musvaburi	D.M	ECN 2048 - Drawing Updated

All Dimensions In mm | Scale: Do Not Scale | Third Angle Projection

A:\Dept\Wastewater\Engineering\Drawing Data\02 - Sales Drawings\DS\DS - 14\DS1403P

LN Number:
Finish : Various
Weight : 334541.15 Kg
Modeled By :

Tolerance (unless stated) :
Thickness : Various
Surface Area : m²
Material : Various

Drawing : DS1403P
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NA BioDisc + BioTreat 01
Kingspan.

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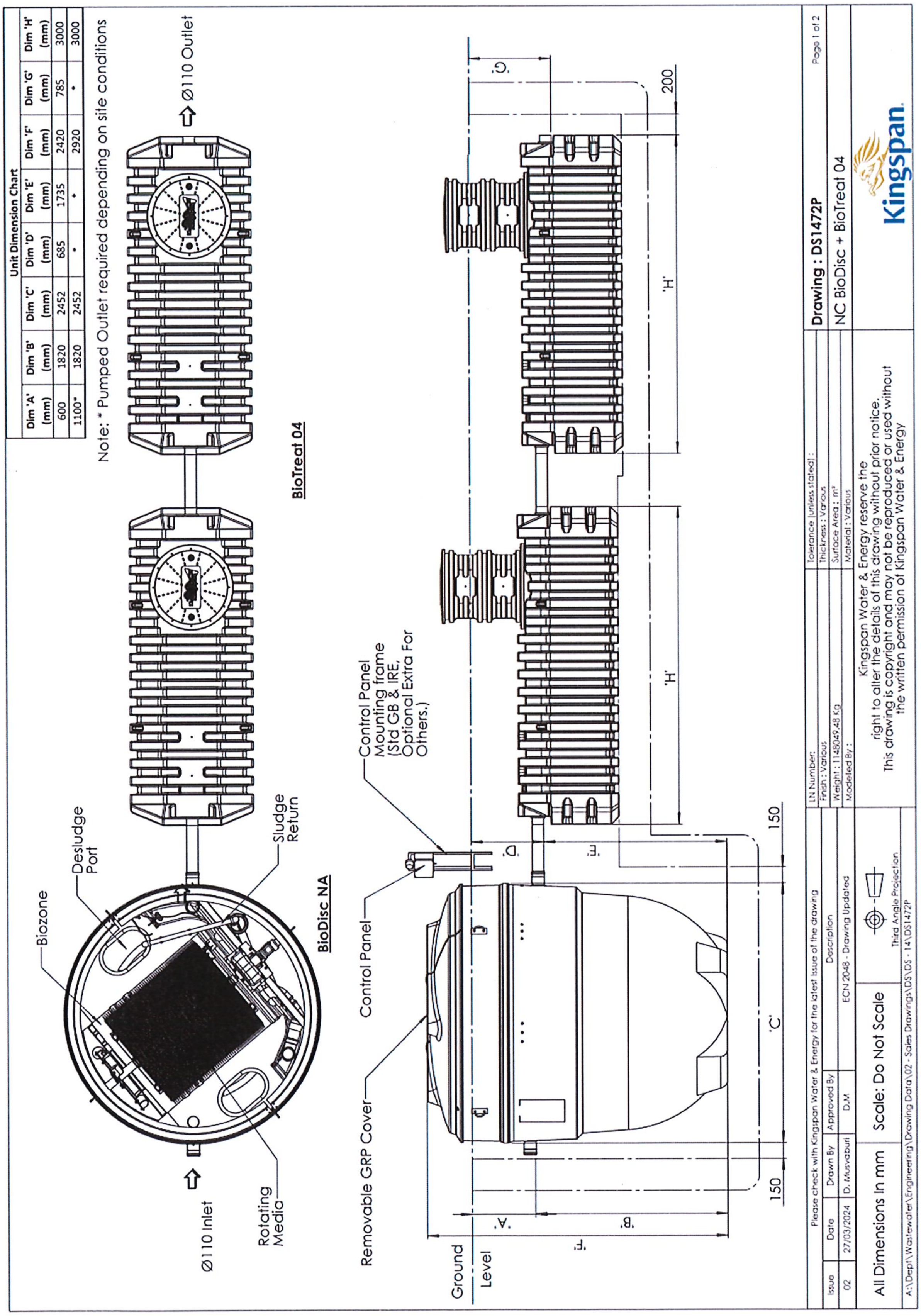

Dim 'A' (mm)	Dim 'B' (mm)	Dim 'C' (mm)	Dim 'D' (mm)	Dim 'E' (mm)	Dim 'F' (mm)	Dim 'G' (mm)	Dim 'H' (mm)
600	1820	2452	685	1735	2420	785	3000
1100*	1820	2452	*	*	2920	*	3000