



TREATMENT PERFORMANCE RESULTS

PIA-SR66-2402-1010

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

Rotating biological contactor

Nominal organic daily load (influent)	0.32 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 (nominal sequences)		Efficiency	Effluent
	COD	94.0 %	52 mg/l
	BOD ₅	97.6 %	8.2 mg/l
	TN _b	58.0 %	24.8 mg/l
	NH ₄ -N*	98.3 %	0.7 mg/l
	P _{tot}	26.4 %	5.4 mg/l
	SS	97.4 %	9.6 mg/l
Electrical consumption	1.5 kWh/d		
Number of desludging	Not more than once		

** determined for temperatures $\geq 12^{\circ}$ 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.



April 2024

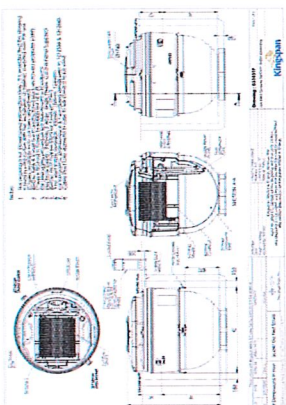
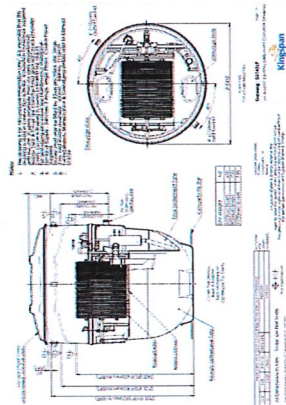


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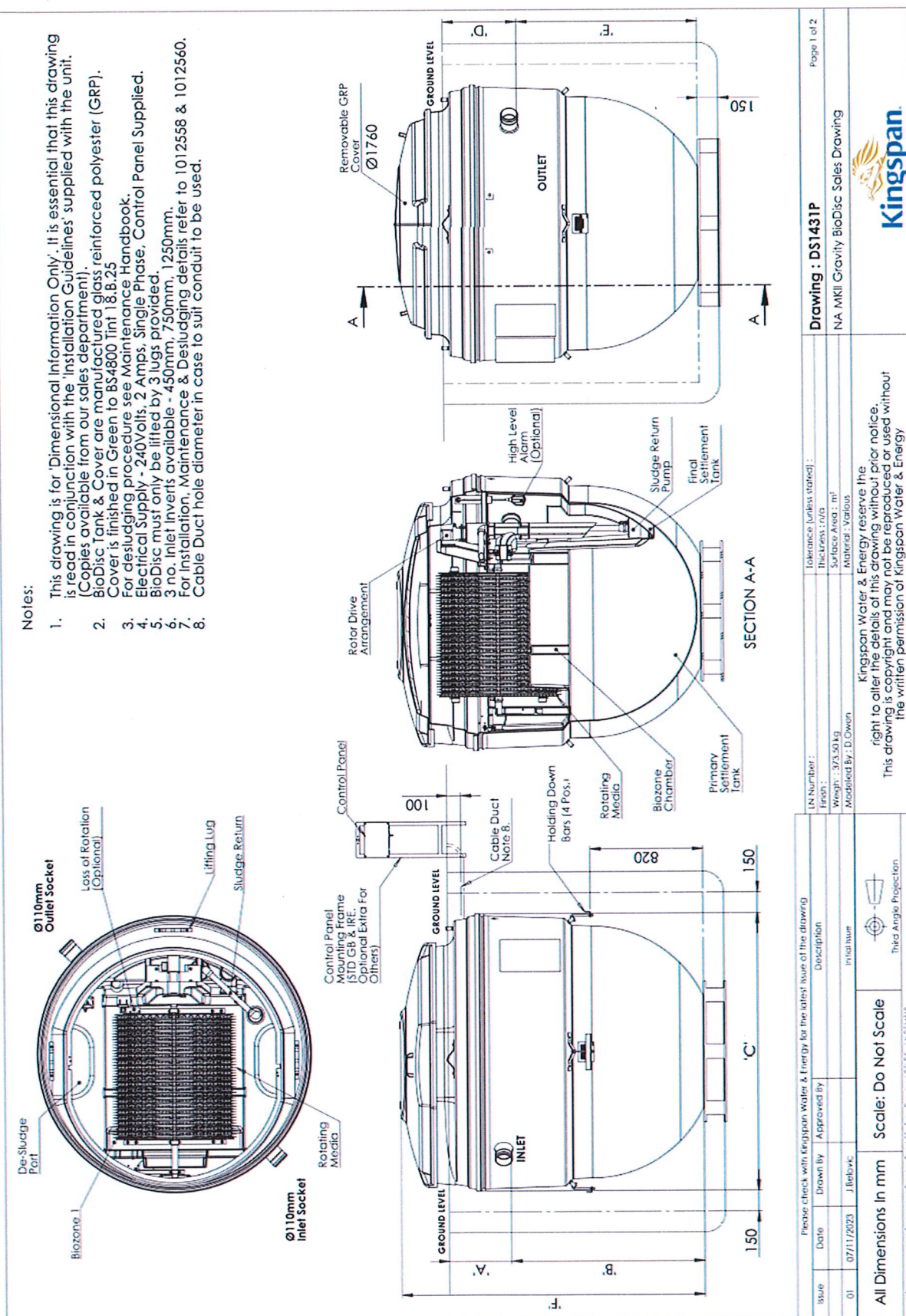


Certified according to
ISO 9001:2015

BioDisc N-Range 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	Pass PIA2022-435B28	Pass For wet ground conditions also, Installation depth 1.00 m from inlet invert	Pass PIA2016-DH-1610-1115.01
12		Pass PIA2012-WD-1209-1056	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	Pass PIA2016-DH-1610-1115.01

6 PE



12 PE

