Water Management Solutions

68 YEARS EXPERIENCE

Klargester BioAir Sewage Treatment Plant

The new Klargester BioAir wastewater treatment plant uses aerated technology to deliver a high level of water discharge quality. Offering flexible installation options to suit a variety of domestic sites and a low impact visual footprint, Klargester BioAir is a cost-efficient choice for your domestic wastewater treatment solution.



UP TO 3 YR WARRANTY PERIOD*

Economically priced

Suitable for installation in traffic areas*
*Structural advice required

Low level visibility

No plastic media

*3 years on Premium model only, 12 months for economy

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Technical Information

Applications

The Klargester BioAir 2-8 range
is suitable for use across the following applications:



Single &
Multiple Homes



Light Industrial
Premises



Small
Offices



Farms



Barn
Conversions

Product features

97.5%

Improved effluent
quality – BOD_5 97.5%



Third party tested to
EN 12566-3



Easy to install
and operate



Suitable for shallow
dig applications



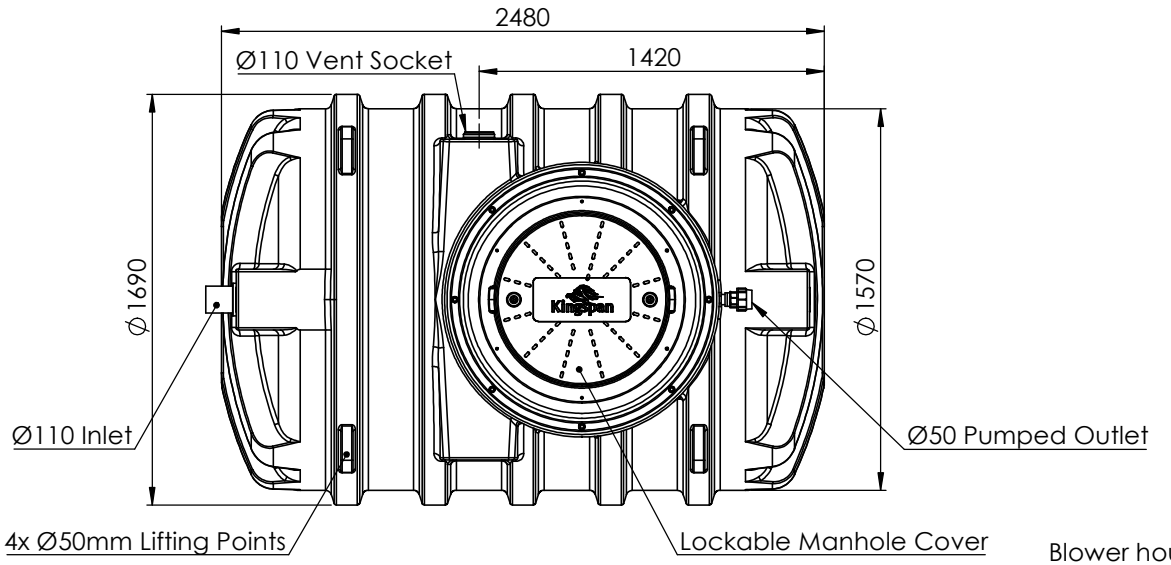
Affordable service
plans available

BioAir	Model	BioAir 2	BioAir 3	BioAir 4	BioAir 5	BioAir 6	BioAir 7	BioAir 8
Population Equivalent	Unit	6	9	12	15	20	25	35
Daily Flow	m^3/d	0.9	1.35	1.8	2.25	3	3.75	5.25
Daily Load	kg BOD_5/d	0.36	0.54	0.72	0.9	1.2	1.5	2.1
Measurements								
Inlet Invert	mm	455-755	575-875	500-2000	645-945	500-2000	500-2000	500-2000
Discharge Option		Gravity /IPS	Gravity /IPS	Gravity /IPS	Gravity /IPS	Gravity	Gravity	Gravity
Outlet Invert	mm	555-855 /400-700	675-975 /350-650	600-2100	745-1045 /415-715	600-2100	600-2100	600-2100
Diameter	mm	1540	1690	1920	2010	1920	1920	1920
Length	mm	2500	2480	3238	3190	4400	5550	7400
Installation Depth	mm	1805-2105	2075-2375	2245-3745	2485-2785	2245-3745	2245-3745	2245-3745
Inlet Pipework	mm	Ø110	Ø110	Ø110	Ø110	Ø110	Ø110	Ø160
Outlet Pipework (Gravity /IPS)	mm	Ø110 /Ø50	Ø110 /Ø50	Ø110 /Ø50	Ø110 /Ø50	Ø110	Ø110	Ø160
Material Construction	MDPE/GRP	MDPE	MDPE	GRP	MDPE	GRP	GRP	GRP
Unit Weight	kg	170	200	500**	650	800**	1250**	1450**

*BioAir 5 subject to availability
**Tank weight based on 500mm invert

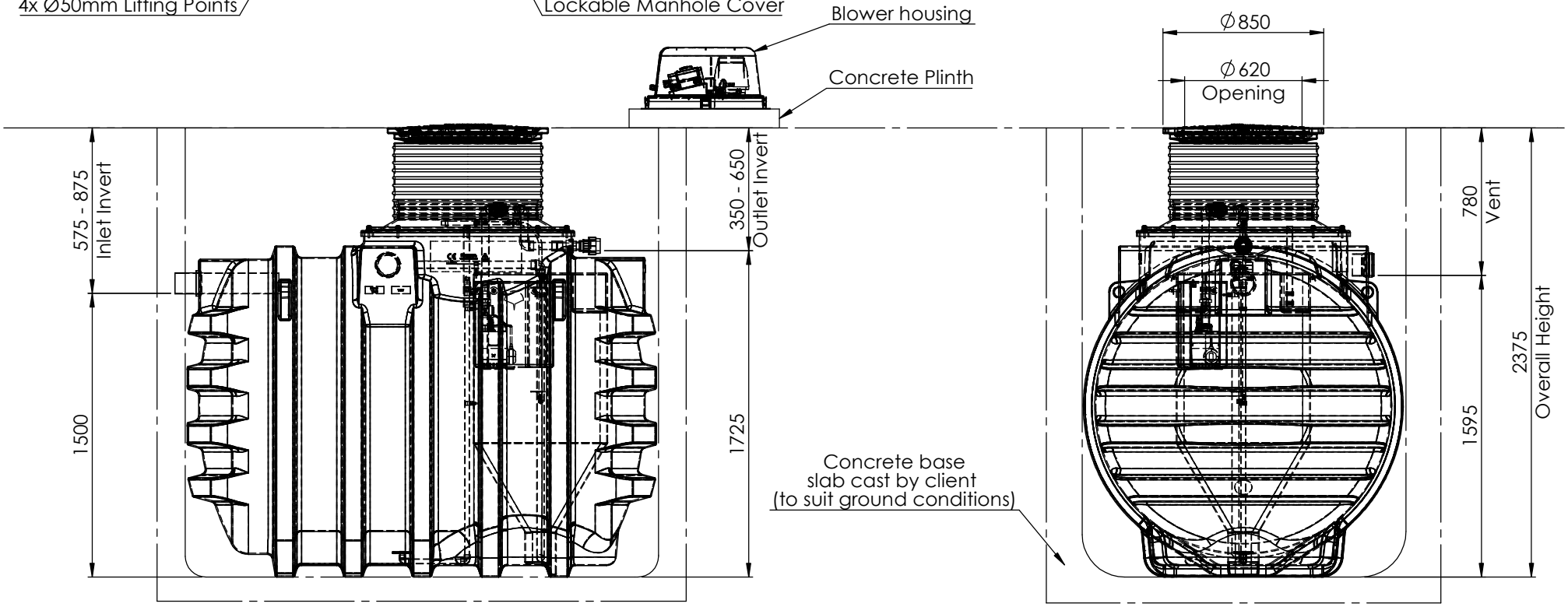
For more information on our new Klargester BioAir:
T: +44 (0) 1296 633 033
E: klargester@kingspan.com
W: Kingspan.co.uk/Klargester

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Notes :

1. Inlet is Ø110 mm. Suitable reducers should be used to step down from bigger pipework. Supplied by others.
2. OUTLET is Ø50 mm outside diameter MDPE compression fitting.
3. Units invert is adjustable by trimming external riser to required height. Selection of correct invert is key and must be suitable for drainage and ground levels on site.
4. Ext neck kit available for deeper inverts up to a maximum invert of 1000 mm. See extension neck drawing for assembly details.
5. It is important to read and understand installation operation and maintanance guidelines before attempting to install this unit.
6. Vent pipe connection is supplied but vent runs and stacks are supplied by others.
7. Air hose for tank internals is supplied with blower housing and is run through the vent.
8. Cable for the outlet pump is run through the vent.
9. Tank Weight (Empty) - 200 kg.



Please check with Kingspan Water & Energy for the latest Issue of the drawing				
Issue	Date	Drawn By	Approved By	Description
01	16/03/2023	D.Owen	D.Owen	Initial Issue

Modelled By : D.Owen	Tolerance (unless stated) :
Weight : kg 225 kg	Thickness :
Material : Various	Surface Area : m²

Drawing : DS1408P

BioAir 3 IPS (9PE) Sales Drawing

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

A:\Wastewater\Engineering\Engineering Projects\962A - BioAir (Activated Sludge)\962A - Models\BioAir3\DS1408P\DS1408P

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BIOAIR 2, 3 & 5 MDPE - DECLARATION OF PERFORMANCE

kingspan-klargester-bioair-2-3-5-dop-en-Mar2023-v1

1.Unique identification code of the product-type:

Wastewater Treatment Plant for 6, 9 & 15 Population Equivalents
BioAir 2 (6PE) & BioAir 3 (9PE) & BioAir 5 (15PE)

2. Type, batch or serial number or any other element allowing identification of the construction product as required under Article 11(4) of the CPR:

BioAir Prefabricated Domestic Wastewater Treatment Plant: See CE marking affixed to product
BioAir 2 (6PE) & BioAir 3 (9PE) & BioAir 5 (15PE)

3. Intended use/es of the product, in accordance with the applicable harmonized technical specification, as foreseen by the manufacturer:

To be used for Collection & Treatment of Wastewater from Domestic applications up to 15 Population Equivalent

4. Manufacturer name, registered trade name or registered trademark and contact address as required under Article 11(5):

Kingspan Water & Energy Ltd
College Rd North
Aston Clinton, Aylesbury, Buckinghamshire
HP22 5EW

5. Where applicable, name and contact address of the authorised representative whose mandate covers the tasks specified in Article 12(2):

N/A

6. System/s of assessment and verification of constancy of performance (AVCP) of the product as set out in CPR, Annex V:

3

7. In case of the declaration of performance concerning a construction product covered by a harmonised standard:

EN:12566-3:2005+A2:2013

Notified body/ bodies:

Notified Body No: 1739 + PIA Prüfinstitut für Abwassertechnik GmbH

8. Declared performance/s:

Essential characteristics		Performance		Harmonised technical specification
Structural Behaviour		**Confirmed by Pit Test under the following Conditions - 1.5m Invert: Height of Backfill (from top of Tank) - BioFicient+2 = 1.26m (Includes using extension necks) WET - BioFicient+2 : 2.0m - Maximum water level from bottom of the tank to Shoulder of the Tank (top of tank itself)**		**EN:12566-3:2005+A2:2013**
Reaction to fire		**Class F**		
Water Tightness (water test)		**Water Tight (water test)**		
Material Durability		**MFR (230/2,16) = (4,0± 3,0g)/10 min (EN ISO 1133)**		
		Density ≥ 930 kg/m³ (EN ISO 1133)		
		Tensile Strength	**At Yield (50mm/min) 21MPa**	
			At break (50mm/min) 21MPa	
Treatment Efficiency	**COD**	**93.2%**	**57 mg/l**	
	BOD_5	**97.5%**	**9 mg/l**	
	TN_b**	**60.1%**	**25.4 mg/l**	
	NH_4-N	**67.6%**	**15.6 mg/l**	
	P_{tot}	**46.9%**	**4.3 mg/l**	
	SS	**95.9%**	**16 mg/l**	
		****determined for temperatures > or equal to 12° C in the biozone**		
Electrical Consumption (measured during 38-week test)		**1.2kWh/d**		
Emission of Dangerous Substances		**NPD**		

9. The performance of the product identified in points 1 and 2 is in conformity with the declared performance in point 8. This declaration of performance is issued under the sole responsibility of the manufacturer identified in point 4.

Signed for and on behalf of the manufacturer by:

David Anderson – Water Business Unit Director

At Portadown on 01 March 2023