

BIODISC® BA-BC DOMESTIC

For domestic dwellings without access to mains drainage, the Kingspan Klargester BioDisc® sewage treatment plant provides a reliable, efficient and environmentally safe solution to your sewage disposal needs. The market leading Biodisc® models remove 95% of pollution - an industry benchmark. It is ideal for locations where discharge is to sub-surface irrigation, or to a suitable watercourse where approved by the Regulator, and where a septic tank will not meet the required standards. For extra peace of mind, we offer a 5 year extended warranty (bond) against the BioDisc domestic plant.



TECHNICAL INFORMATION

HOW THE KINGSPAN KLARGESTER BIODISC® WORKS

Central to the operation of each Kingspan Klargester BioDisc® is the Rotating Biological Contactor (RBC), which supports a biologically active film or biomass on to which aerobic micro-organisms, naturally found in sewage, become established. Natural breakdown of sewage can then occur as described below.

The Breakdown Process

Wastewater and sewage flows into the primary settlement zone (1) where solids are settled out and retained. This accumulated sludge should be drawn out periodically.

Partially clarified liquor containing fine suspended solids flows upwards into the first stage Biozone (2) for breaking down by micro-organisms on the RBC. Suspended solids return to the primary settlement zone and the liquor is transferred to the second stage Biozone (3) for further treatment.

Any solids remaining are settled out in the final settlement tank (4). The very high effluent quality is discharged to a watercourse.

The RBC comprises banks of vacuum formed polypropylene media supported by a steel shaft. This is slowly rotated by a low energy consumption electric motor and drive assembly.

Note:

The Kingspan Klargester BioDisc® is designed to deal with normal domestic sewage. If the sewage is likely to contain unusual substances, please consult Kingspan Klargester.

UNIT SIZE	SINGLE HOUSE		MULTIPLE HOUSES	
	BA	BA-X	BB	BC
Population equivalent	1 house up to 4 bedrooms	1 house up to 7 bedrooms	2 house up to 8 bedrooms	3 house up to 12 bedrooms
Overall diameter mm	1995	1995	1995	2450
Standard drain inlet mm	750	750	750	600
Standard outlet mm	835	835	835	685
Depth from invert to base mm	1400	1400	1400	1820
Pipework diameter mm	110	110	110	110
Sludge storage period (approx)	12 months	9 months	6 months	7 months
Standard power supply	Single phase	Single phase	Single phase	Single phase
Motor rating	50W	50W	50W	75W
Weight (tonnes) standard units	0.388	0.418	0.418	0.650

OVERVIEW

UNIQUE DESIGN

The Kingspan Klargester BioDisc® is the only packaged sewage treatment plant utilising Rotating Biological Contractor technology for small domestic applications. This process offers inherent cost and performance benefits with a low carbon footprint.

ASSURED PERFORMANCE

BioDisc® is a high performance package treatment plant which, in normal domestic situations, will produce effluent qualities of better than 10mg/l BOD, 15mg/l SS and 3.8mg/l ammonia.



FEATURES AND BENEFITS

Lowest running and maintenance costs of sewage treatment models in its class

No noise, no odours

Suitable for homes with up to 18 people.

Low profile covers for minimal visual impact

Invert options to match the site

Control panel issues an immediate alert when a problem occurs

Single phase standard power supply

Optional integral pump available

Certified to European Standard EN12566-3

CE-marked
