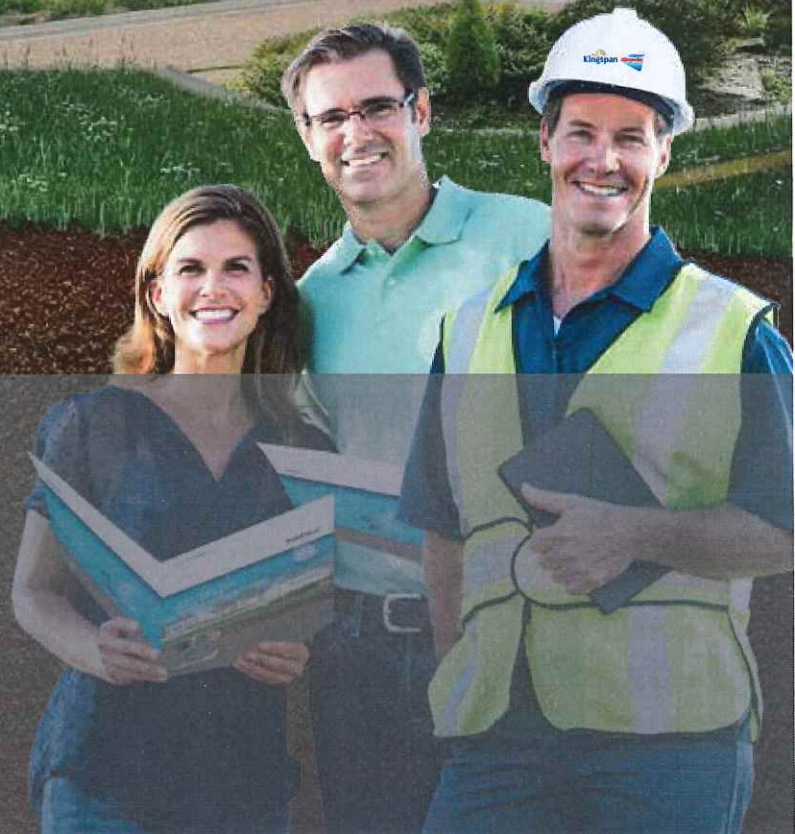


Wastewater Solutions

BioDisc®

# WASTEWATER SOLUTIONS

PREMIUM SEWAGE TREATMENT PLANT FOR DOMESTIC USE FROM THE MARKET LEADERS IN WASTEWATER TREATMENT.



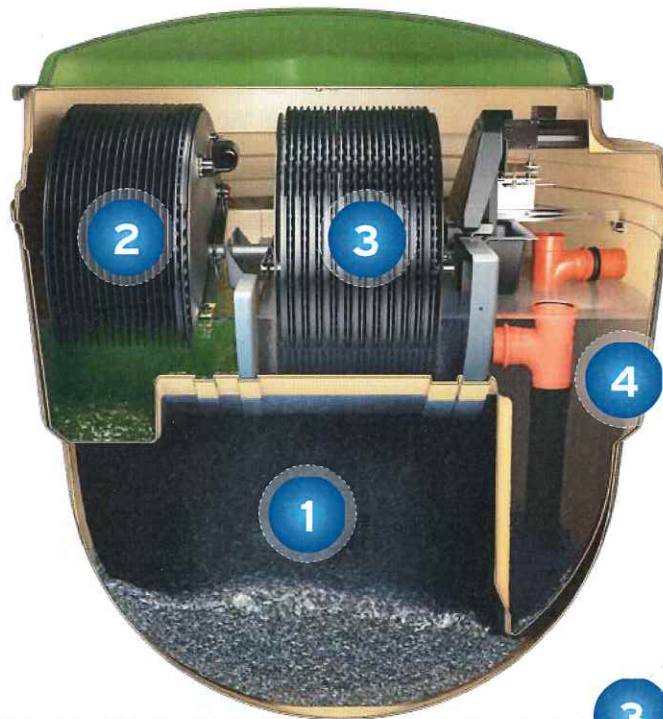


# BioDisc® HOW IT WORKS

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

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 / Width (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

\* BA-BB 450/1250 † BC 11000

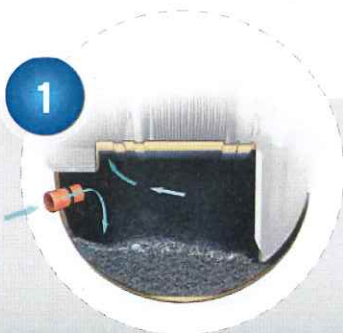


## ROTATING BIOLOGICAL CONTACTOR (RBC)

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.

## BioDisc® from Kingspan Klargester

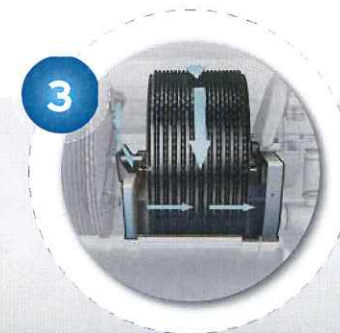
For further technical information and videos on the BioDisc® treatment plant visit our website at [kingspanklargester.com](http://kingspanklargester.com)



**PRIMARY SETTLEMENT TANK**  
Wastewater and sewage flows into the primary settlement tank where the large solids are retained for future removal.



**FIRST STAGE BIOLOGICAL TREATMENT**  
The liquor and fine solids then flow into the Biological Treatment Zone 1 where the first stage of treatment occurs.



**SECOND STAGE BIOLOGICAL TREATMENT**  
The liquor is then fed forward at a controlled rate into Biological Treatment Zone 2 for further cleaning.



**FINAL SETTLEMENT TANK**  
The clean liquid passes into the final settlement tank where it can be discharged to ground or water course.