

Klargester BioDisc Domestic Sewage Treatment Plant



Our Klargester BioDisc® models have been designed to cater to homes without access to mains drainage. With 65 years' of expertise behind the engineering of this range, we have created a unit that offers optimal performance with affordable lifetime running costs, whilst fully compliant with European standard EN 12566-3 .

This unit is ideal for locations where discharge is to sub-surface irrigation, or to a suitable watercourse, or where a septic tank will not meet the required standards.

We have four models available, which can be selected after a quick consultation with our team to assess the needs of your home.

Typical applications suitable for the Klargester BioDisc Domestic Sewage Treatment Plant

- Single & Multiple Homes
- Barn Conversion
- Small Office Development
- Stable Yard Toilet
- Farms
- Offices & Light Industrial Premises

Features and benefits

- Low noise & 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

Technical information

How the Klargester BioDisc® Works

Central to the operation of each 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 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. 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.

UNIT SIZE	SINGLE HOUSE (compliant with UK Building Regulations)			MULTIPLE HOUSES
	BA	BA-X	BB	BC
Population equivalent	6	9	12	18
Max. Daily BOD kg	0.36	0.54	0.72	1.08
Max. Daily Flow m ³	1.2	1.8	2.4	3.6
Overall diameter mm	1995	1995	1995	2450

Inlet Invert Depth mm	750 *	750 *	750*	600 ^
Depth Below Inlet Invert mm	1400	1400	1400	1820
Outlet Invert Depth mm	1315	1315	1315	1735
Overall Height mm	2160/ 2460/ 2960	2160/ 2460/ 2960	2160/ 2460/ 2960	2825/3325
Height to Rim of Cover mm	1945/ 2245/ 2745	1945/ 2245/ 2745	1945/ 2245/ 2745	2485/2985
Empty Weight kg	310/3 25/38 0	310/3 25/38 0	335/3 50/40 5	650/750
Standard Power Supply	1 Phase	1 Phase	1 Phase	1 Phase
Full Load Current -	0.51	0.51	0.51	1.1

Single Phase -amps				
Optional Power Supply	3 Phase	3 Phase	3 Phase	3 Phase
Motor Rating - Three Phase	N/A	N/A	N/A	90
Full Load Current - Three Phase	N/A	N/A	N/A	0.38
Sludge Return Pump Rating	250W	250W	250W	250W
Electrical Power Consumption KWH/Year	682.55	682.55	682.55	923.45

* Optional invert depths of 450mm and 1250mm are available.

^ Optional invert depth of 1100mm is available.

** Optional integral pump available in BA, BA-X and BB models.