

# DATA SHEET

## Waste Water Treatment Plants

# ECOROCK



**Monoblock**



**Ecorock**

ECOROCK is a revolutionary compact waste water treatment plant system used to treat organic waste including sewage, light paper and most household cleaners. It consists of HDPE tanks and special BIOROCK media dispensing the need for any concrete works. Preferably installed in ground, it minimises visual impact and covers a smaller footprint. Systems are also suited to seasonal conditions operating effectively for upto 6 months when left unused.

The two stage treatment process produces high quality effluent that may be discharged into sensitive watercourses. The biological process is simple and is gravity fed thereby ensuring reliability and low maintenance over traditional systems. The treatment process is as follows;

### Stage 1

The raw sewage enters a primary tank where separation and breakdown of organic solids takes place. Monoblock unit incorporates both primary and secondary tanks in one integral unit.

### Stage 2

The sewage then passes through an effluent filter before discharging into the ECOROCK® unit which incorporates BIOROCK® media. This specially formulated media facilitates aerobic digestion process (Secondary Treatment). The media also provides a filtration process which takes place before the effluent is discharged, (Tertiary Treatment).

Features include;

- Works without electric power due to the design dispensing the need for pumps, blowers and compressors reducing lifetime costs.
- No moving parts resulting in no downtime due to breakdowns or wear and tear.
- Silent operation.
- Minimal maintenance.
- Ease of handling and installation eliminating need for concrete.

## Biorock Purification Results\*:

**BOD:** 4mg/l, 99%

**COD:** 26mg/l, 96%

**TSS:** 3mg/l, 99%

\*Testing done in conformity to EU Norm EN 12566-3, testing Institute: PIA in Aachen, Germany.

## OPERATING CONDITIONS:

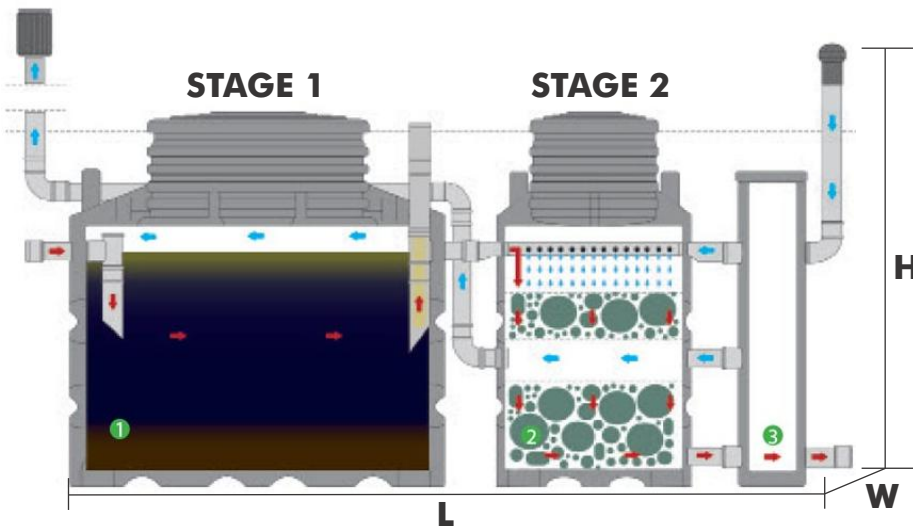
**Medium:** Organic waste not containing aggressive medium

**Max. Ambient Temperature:** 40°C

**Max. Medium Temperature:** 25°C

## EQUIPMENT SPECIFICATION

Model*	MONOBLOCK 2-1000	ECOROCK 1000	ECOROCK 1500	ECOROCK 3000	ECOROCK 5000	Multi-30 2xER3000	Multi-60 2xER5000	Multi-90 3xER5000
Population Equivalent (PE)	6	6	10	15	30	30	60	90
Flow, m <sup>3</sup> /day	0.9	0.9	1.3	2.3	4.5	4.6	9	13.5
Organic Loading (Kg/BOD <sub>5</sub> /day)	0.36	0.36	0.6	0.9	1.8	1.8	3.6	5.4
Nitrogen Loading (Kg/NH/day)	0.07	0.07	0.12	0.18	0.36	0.36	0.72	1.08
Length, m	2.8	1.2	1.15	2.15	3.5	3.5	3.5	3.5
Width, m	1.2	1.2	1.15	1.15	1.15	2.3	2.3	3.45
Height, m	2	2	2	2	2	2	2	2



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DT362B -09/18

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