

BEASY-2000

DOMESTIC WASTEWATER SOLUTION

Ultra-Compact & All-in-One
System



BIOROCK

engineered for tomorrow



THE FUTURE OF WASTEWATER TREATMENT

BIOROCK is home to an internationally-acclaimed team of wastewater specialists who share the goal of providing innovative, sustainable, and eco-friendly water treatment systems.

Our level of expertise and attention-to-detail guarantees only the best, most reliable products, providing the market with the ultimate non-electrical wastewater treatment technologies.

ADVANTAGES AND BENEFITS OF THE BEASY-2000

BEASY-2000

Electrical Plants

Organic Media Plants

THE BEASY-2000 SOLUTION

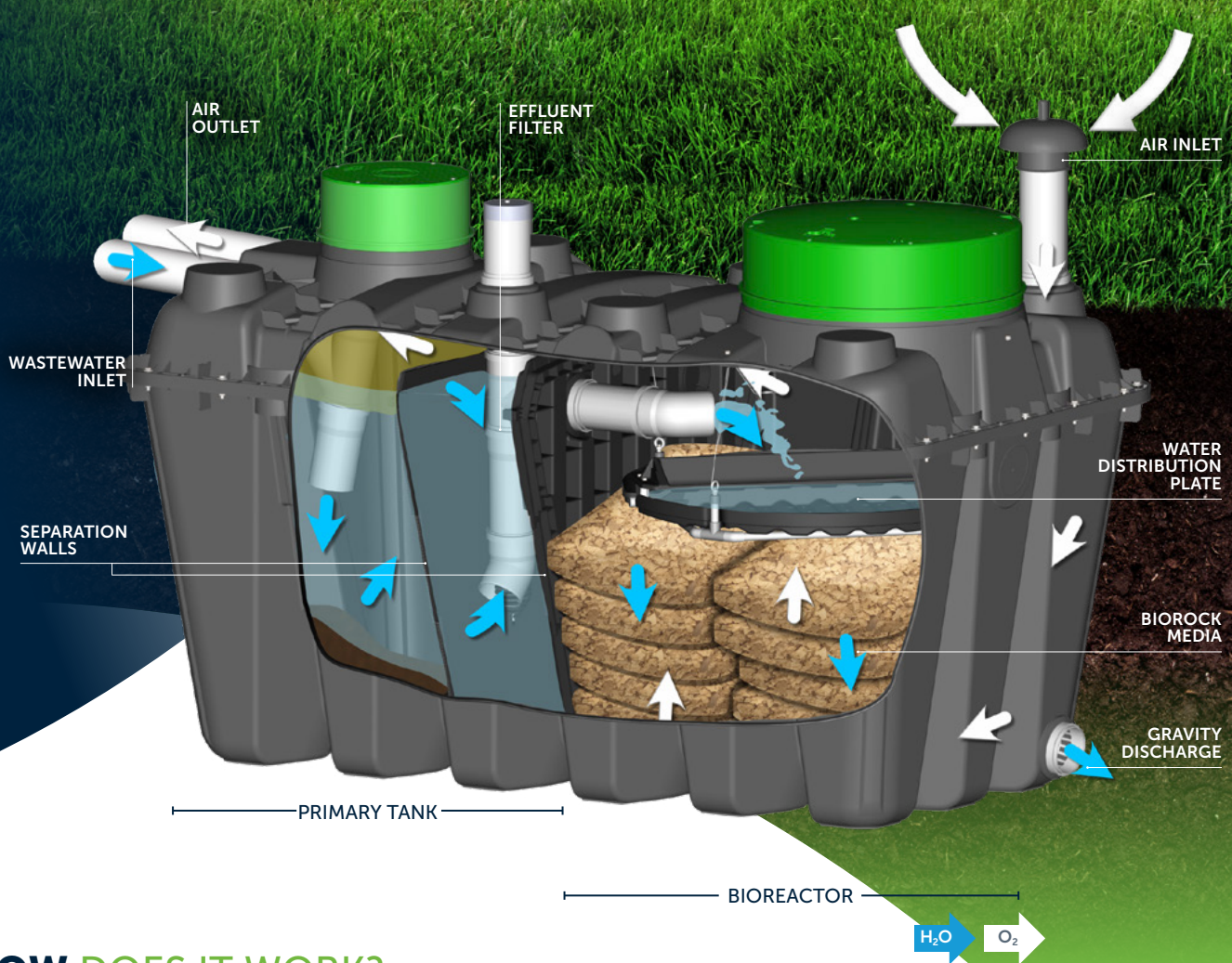
Our **BEASY-2000 Solution** offers a simple yet effective process that requires no electricity, has no moving parts, and needs minimal annual maintenance.

This **ultra-compact wastewater treatment plant** can be used in areas where there is no access to electricity or where electricity supply is intermittent ; perfect for garden houses or chalets!

It combines everything you need to treat your wastewater, while remaining **discreet and odor-free**.

For your convenience, the system is delivered complete and pre-assembled to make installation even easier.

	BEASY-2000	Electrical Plants	Organic Media Plants
High Media Lifespan	✓	✗	✗
Low Operational Costs	✓	✗	✗
Minimal Annual Maintenance	✓	✗	✗
Ultra-Compact & Discreet	✓	✗	✗
Non Electric	✓	✗	✓
Long Septic Tank Pump-Out Intervals	✓	✗	✓
Odourless	✓	✗	✓
Silent	✓	✗	✓
Long Absence Periods	✓	✗	✓



HOW DOES IT WORK?

Step 1: Primary Tank

The PRIMARY TANK clarifies the raw sewage of fats, oils, greases and organic solids. The sewage water then passes through an effluent filter, before discharging into the BIOROCK reactor.

Step 2: BIOREACTOR Process

Our BIOREACTOR further purifies the pretreated wastewater using a biological process. To naturally treat the wastewater, our systems use our unique BIOROCK Media, an exclusive and very efficient carrier material for bacteria.

Step 3: Discharge

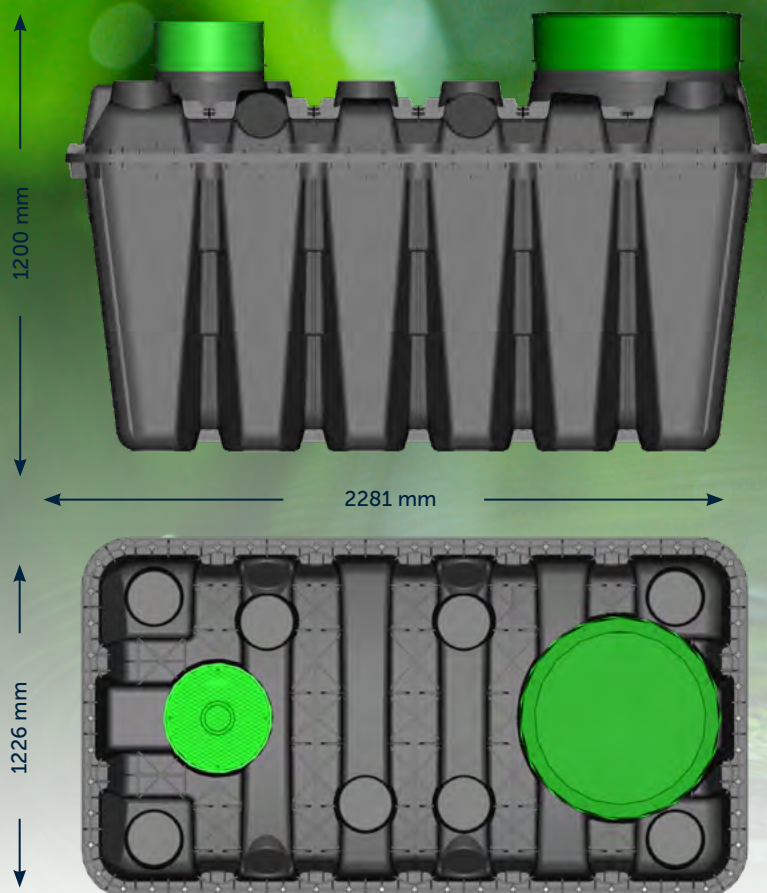
Depending on the ground type, effluent will be discharged by gravity, or by a pump.



THE UNIQUE BIOROCK MEDIA

Our **exclusive media** is degradation-resistant, stable, and sustainable - keeping the purification system working effectively over the long-term. You will exclusively find it in BIOROCK systems.





SAVE MONEY WITH BEASY-2000

One of the main benefits of having a **BEASY** sewage treatment plant is that it's a long-term, sustainable, and economic investment. Our system requires minimal maintenance, does not need electricity, and has a long lifespan.

You will constantly save on electricity and maintenance.

Do you need a larger non-electric power plant? We have a solution for any project, no matter the size! Contact us for more information.

WHY CHOOSE BEASY-2000?

- Compact & Discreet
- No electricity required
- Save on electricity bills
- Quiet and & Odorless
- Quick and easy to install
- Eco-friendly technology

BEASY-2000 SPECIFICATIONS

TANK VOLUME	2000 l
WEIGHT (EMPTY)	170 kg
CAPACITY IN P.E.	Up to 4 P.E.*
DAILY VOLUME OF WASTEWATER	300 liters/day

**2pe for standard domestic use and up to 4pe for camping, glamping or similar use.*



BIOROCK
engineered for tomorrow

BEASY-EN-08-2021

Call us today for a **FREE** project consultation
or visit

www.biorock.com



CE BIOROCK units are approved and tested by many International Standards.



25 Year warranty on tanks
5 Year warranty on media

**subject to conditions*



TREATMENT PERFORMANCE RESULTS

PIA-SR66-2304-1027

BIOROCK Sewage Treatment Ltd.

Fitzwilliam Court, 11-13 Dyer Street, Drogheda, Co. Louth, Ireland

EN 12566-3

Results corresponding to EN 12566-3 and S.R. 66

BEASY

Media filter

Nominal organic daily load (influent)	0.12 kg BOD ₅ /d		
Nominal hydraulic daily load	0.30 m ³ /d		
Material	Polyethylene		
Watertightness	Pass		
Crushing resistance (pit test)	Pass (also wet conditions)		
Durability	Pass		
Treatment efficiency (nominal sequences)		Efficiency	Effluent
	COD	88.6 %	67 mg/l
	BOD ₅	95.9 %	9 mg/l
	TN _b	66.7 %	50 mg/l
	NH ₄ -N*	77.7 %	12 mg/l
	P _{tot}	17.8 %	7 mg/l
	SS	97.5 %	7 mg/l

Number of desludging Not more than once

* determined for temperatures $\geq 12^{\circ} \text{C}$ in the bioreactor

Tested by:

CSTB – Centre Scientifique et technique du Batiment

This document replaces neither the declaration of performance nor the CE marking.

PIA – Sustainable Certification
D. Schmitz
M. Wermter
geprüft – tested – testé

D. Schmitz/M. Wermter

May 2023

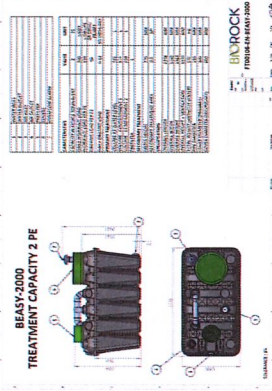


Notified Body
No.: 1739

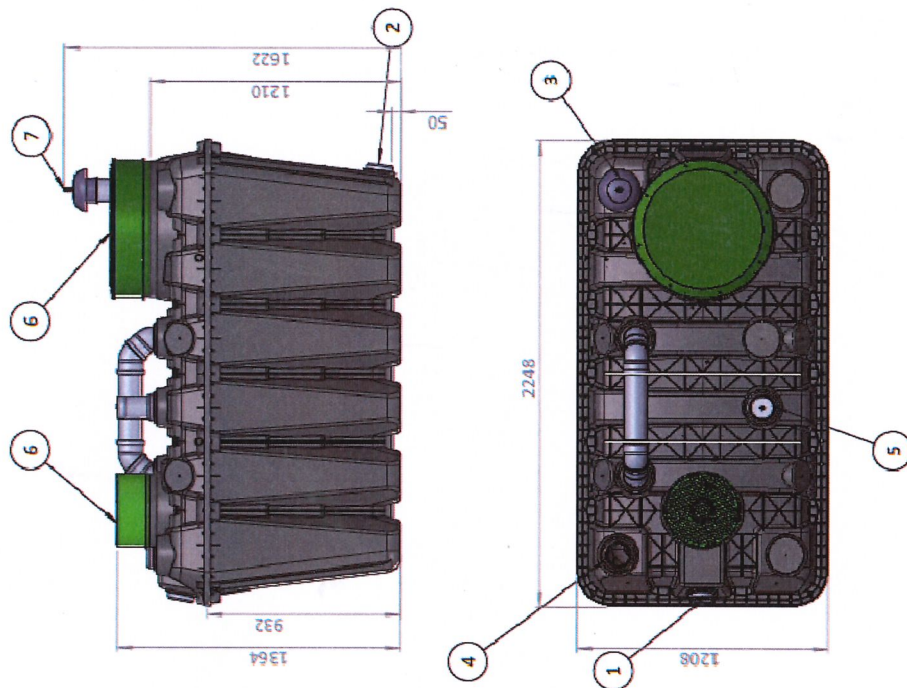


Certified according to
ISO 9001:2015

Beasy range and its referring test reports:

Population equivalent (PE)	Drawing of model of the range	Watertightness (EN 12566-3 Annex A)	Treatment Efficiency (EN 12566-3 Annex B)	Structural Behaviour (EN 12566-3 Annex C)	Durability
Initial type test (ITT) 2 300 l/d		Pass CAPE 21-05145/2 (CSTB)	Pass CAPE21-02083 (CSTB)	Pass CAPE 21-05145/2 (CSTB) For wet ground conditions also, installation depth 0.35 m from inlet invert	Pass CAPE 21-07477_V1 (CSTB) EAU-22-12928 (CSTB)

BEASY-2000 **TREATMENT CAPACITY 2 PE**



TOLERANCE : 3%

1	WATER INLET
2	WATER OUTLET
3	AIR INLET
4	AIR OUTLET
5	PREFILTER
6	COVERS
7	OVERFLOW ALARM

CARACTERISTICS	VALUE	UNIT
CAPACITY IN PEOPLE EQUIVALENT	2	PE
DAILY HYDRAULIC LOAD	300	L/DAY
HYDRAULIC LOAD PER PE	150	L/DAY/PE
ORGANIC LOAD PER PE	60	GR DBO5/PE/DAY
DAILY ORGANIC LOAD	0.12	KG DBO5/DAY
PRIMARY TREATMENT		
VOLUME AT WATER LEVEL	725	L
VOLUME - COMPARTMENT 1	475	L
VOLUME - COMPARTMENT 2	250	L
PREFILTER	1	
SECONDARY TREATMENT		
MEDIA HEIGHT	770	MM
SECONDARY TREATMENT AREA	0.9	M²
SPECIFICATION		
OVERALL LENGTH	2248	MM
OVERALL WIDTH	1208	MM
OVERALL HEIGHT	1364	MM
OVERALL HEIGHT + VENTILATION	1636	MM
TOTAL WEIGHT (WITHOUT WATER)	170	KG
PIPE DIAMETER	110	MM
COVER DIAMETER (PRIMARY)	300	MM
COVER DIAMETER (SECONDARY)	600	MM

BIO-ROCK
FT00106-EN-BEASY-2000

Revision	Description	Rev.	Scale	Page	Sheet	A3
1			1:20	2/3		