# MONOBLOCK

DOMESTIC WASTEWATER SOLUTION

The All-In-One System

AIN



# **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 MONOBLOCK ALL-IN-ONE SOLUTION

Media Lifespan Is Up To 10 Years	✓	×	×
Low Operational Costs	✓	×	×
Minimal Annual Maintenance	✓	×	×
Ultra-Compact & Discreet	✓	×	×
Non Electric	✓	×	~
ong Septic Tank Pump-Out Intervals	✓	×	~
Odourless	✓	×	~
Silent	✓	×	~
Long Absence Periods	✓	×	~

MONOBLOCK

Electrical Plants

# THE MONOBLOCK SOLUTION

#### Our MONOBLOCK Solution

offers a simple yet effective process that requires no electricity, has no moving parts, and needs minimal annual maintenance.

This **plug-and-play sewage system** is perfect for residential properties and small establishments. It combines everything you need **to successfully and cost-effectively treat your wastewater**, while being discreet and odourless.

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



### 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.



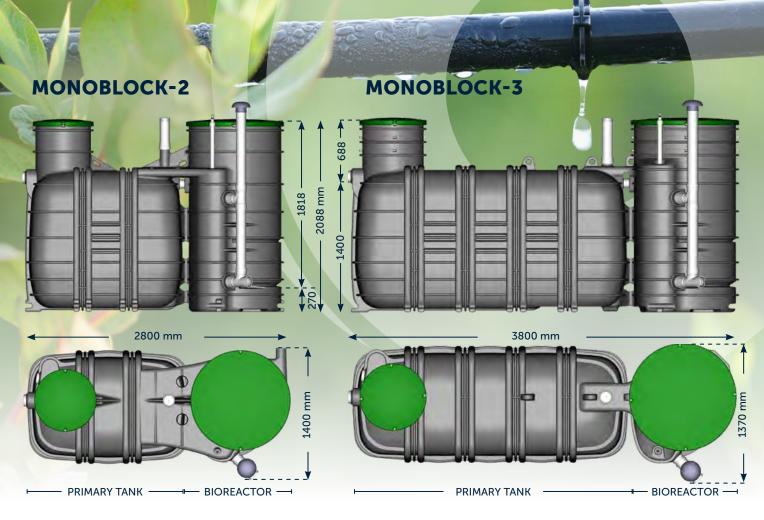






v Dis

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# SAVE MONEY WITH MONOBLOCK

One of the main benefits of having a **MONOBLOCK** 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, maintenance, and tap water costs as you can reuse the purified water for irrigation.

# MONOBLOCK SPECIFICATIONS

DIMENSIONS	VOLUME PRIMARY TANK	WEIGHT (EMPTY)
MONOBLOCK-2	2000 liters	298 kg
MONOBLOCK-3	3000 liters	395 kg



MONOBLOCK-GLOBAL-03/2023

Call us today for a FREE project consultation or visit www.biorock.com

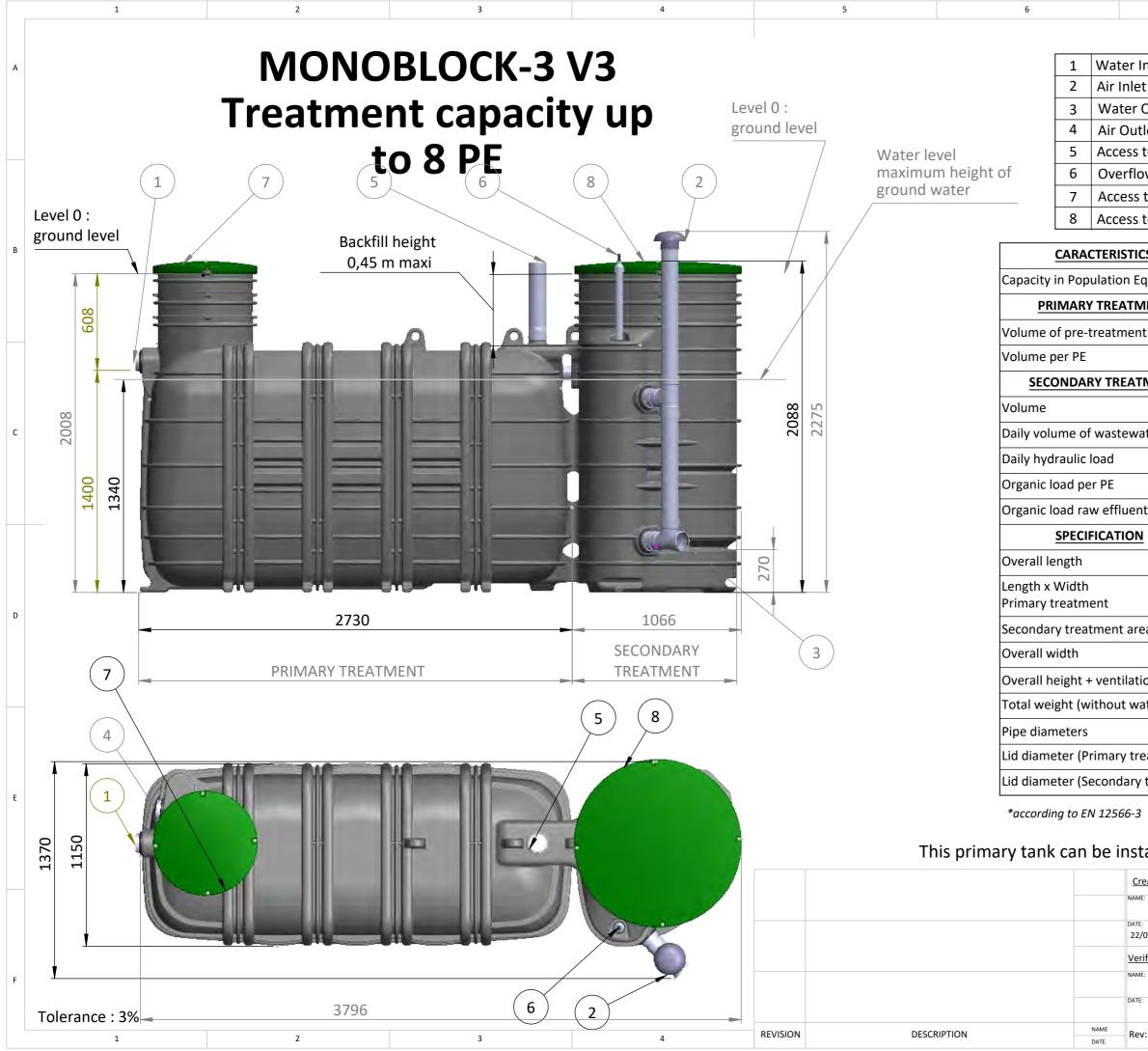




 BIOROCK units are approved and tested by many International
Standards.



25 Year warranty on tanks 10 Year warranty on media



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1
Dutlet
let
to effluent filter
w Alarm
to Primary treatment
to Secondary treatment

<u>cs</u>	VALUE	UNIT	В
quivalent	Up to 8	PE	
IENT	VALUE	UNIT	
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	375	Liters	
MENT	VALUE	UNIT	
	1500	Liters	
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	60	gr.DBO5/PE/day	
it up to	048	kg DBO5/day	
<u>l</u>	VALUE	UNIT	
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	2730 x 1150	mm	D
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	1370	mm	
ion	2275	mm	
ater)	395	Kg	
	110	mm	
eatment)	600	mm	
treatment)	1000	mm	
		-	Е

# This primary tank can be installed in high ground water table.

E: LH	BNOROCK				
nification	FT00	90-M	ONO	BLO	CK-3-6 V3
E:			CM-Y3	000.5	
v: 0	Scale:	.:23	Sheet:	2/2	→ A3



#### A the request of BIOROCK 4-5 Zone d'Activités Économiques Le Triangle Vert L-5691 ELLANGE - LUXEMBOURG

#### Synthesis of performances of small wastewater treatment plants MONOBLOCK

Type testing in accordance with the standard EN 12566-3 + A2 (2013) Small wastewater treatment systems for up to 50 PT — Part 3: Packaged and/or site assembled domestic wastewater treatment plants

Essential Characteristics	Performances			Type testing report
	SWWTP reference	Loads and r	sequences	
	<i>CM</i> 6 Nominal hydraulic daily	Mean tested BOD <sub>5</sub>	l organic daily load: 0,32 kg/d	10 M
		Mean efficiency ratios obtained:		
Effectiveness		BOD5 COD	95% 91%	008002
of treatment flow Q <sub>N</sub> 0,90 m <sup>3</sup> /d	10.000	SS	97%	from 20/04/2017
		Effluent me		
		BOD <sub>5</sub>	16 mg/l	
		COD	78 mg/l	
		SS	12 mg/l	
		Contract of the second	ical power consumption measure desludging procedure carried out	

The tests have been carried out by notify laboratory CERIB (Notify Body nº1164).

This document is a synthesis of the performances of the tested products-type, whose the description and test results are detailed in the type test reports referenced for each performance.

This document only certifies the characteristics of the tested products-type submitted for testing and makes no judgement about the characteristics of similar products.

Épernon, the 12<sup>th</sup> June 2017.

S. POUDEVIGNE

**Development & Innovation Manager** 



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/ Centre d'Études et de Recherches de l'Industrie du Béton / 1 rue des Longs Réages - CS 10010 - 28233 ÉPERNON CEDEX - FRANCE / Tél. +33 (0)2 37 18 48 00 / Fax +33 (0)2 37 83 67 39 / e-mail cerib@cerib.com / www.cerib.com

Centre Technique Industriel (loi du 22 juillet 1948) SIRET 775 682 784 00027 – NAF 7219Z. Agréé par le ministère de l'Intérieur (arrêté du 4.04.2011) pour les essais de résistance au feu des éléments de construction. Certificateur de produits (Art. L. 115-27 Code de la consommation), mandaté par AFNOR Certification. Notifié par l'État pour le marquage CE (n° 1164). Opérateur de recherche du Ministère de l'Éducation Nationale, de l'Enseignement Supérieur et de la Recherche, les travaux de R&D éligibles peuvent bénéficier du CIR.