

BIONEST

Solutions Inspired by Nature™



BIONEST™

*Residential, commercial, institutional and community applications
with daily flow rates up to 10,000 L/day*

BN-400 to BN-2650

ADVANTAGES

- High purification performances
- Reliable system
- Odour free effluent
- Low operation and maintenance cost
- Compact and robust system completely buried



System tested and
certified NSF/ANSI
Standard 40, Class I



Performance Claim Verified
by the ETV Program

An efficient treatment ... inspired by nature

The compact BIONEST™ system reproduces the natural purification process observed in nature. The concept includes aeration of wastewaters in a high surface area media environment that supports naturally present microbial activity. It is a complete treatment system which offers high purification performance from a simple, efficient and durable technology.

The BIONEST™ BN models are engineered, preassembled, ready for delivery, advanced wastewater treatment systems designed to treat domestic sewage from residential, commercial, institutional or community applications with flow rates up to 10,000 L/day. They are suitable for all site configurations whatever the soil type.

The constant air supply in the BIONEST™ system guarantees optimal and consistent performance. The BIONEST™ media, acting as bacteria support, is made of a synthetic material which does not need replacement.

BIONEST™ system treatment performance

Official results¹ obtained during the NSF Standard 40, Class I testing protocol

Advanced treatment		
	CBOD ₅ (mg/L)	TSS (mg/L)
BIONEST™ system	2.3	2.4

1: Data from results obtained within NSF Certification process

The BIONEST™ system significantly reduces fecal coliform discharge. An ultraviolet disinfection system may be added, if required, for an increased fecal coliform treatment performance level.

BN models - Residential, commercial, institutional and community applications

Model	Treatment capacity	Septic tank	BIONEST™ reactor			
	Daily flow rate		Effective volume Litres	Single reactor configuration		Multiple reactor configuration
	Litres	Number of reactor		Effective volume of the reactor Litres	Number of reactors	Effective volume per reactor Litres
BN-400	1,600	3,800	1	3,800	-	-
BN-500	2,000	4,700	1	4,700	-	-
BN-600	2,500	5,100	1	5,100	-	-
BN-750	3,000	5,700	1	5,700	-	-
BN-1000	4,000	6,800	1	6,800	-	-
BN-1250	5,000	7,800	1	7,800	-	-
BN-1500	6,000	9,500	1	9,500	2	4,750
BN-2000	8,000	11,400	1	11,400	2	5,700
BN-2650	10,000	15,000	1	15,000	2	7,500

WARRANTY :

- 2 years on labour
- 2 years on parts
- 20 years on the media

The solution without compromise for your health and the environment

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