

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 Effective volume Litres	BIONEST™ reactor			
	Daily flow rate Litres		Single reactor configuration		Multiple reactor configuration	
		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	6,600	1	6,600	-	-
BN-1250	5,000	7,600	1	7,600	-	-
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 :

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

The solution without compromise for your health and the environment

Bionest

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