

The logo for ENVIROGEN features a cluster of blue dots of varying sizes arranged in a roughly circular pattern, with the word "ENVIROGEN" in a clean, sans-serif font positioned to the left of the dots.

ENVIROGEN

The background is a dynamic composition of overlapping blue and white shapes. A large, thick blue curved band sweeps across the top right. Below it, a lighter blue curved band follows a similar path. In the bottom right, a large white circle is partially visible. On the left side, there are several thin, concentric white circles that fade out towards the center.

MODULAR BIOFILTERS
BIOFILTER TECHNOLOGY SYSTEMS
(HIPB SERIES)

HIGH PERFORMANCE MODULAR BIOFILTERS

VARIABLE-FLOW MODULAR SYSTEMS WITH LOW LIFECYCLE COSTS

Envirogen modular biofilter technology delivers reliable, cost-effective performance for moderate air flow rates and sites requiring smaller system footprint treatment options. These automated, prefabricated fiberglass modular systems come in a range of standard configurations and can be adapted to flow, loading and site requirements – for both municipal and industrial biofilter applications. In some cases, they can be shipped with all media pre-installed and are easily installed at the site.



Envirogen modular biofilters feature the latest concepts in odor control and volatile organic compounds (VOC) control system design. They offer ease of installation, a high degree of automation, long media life and corrosion resistance – delivering excellent reliability, minimal operator attention and an overall low lifecycle cost.

Envirogen modular biofilter technology offers robust and sustainable solutions:

- Efficient contaminant destruction
- Reduced chemical usage and chemical storage
- Reduced energy usage
- Lower carbon footprint
- Lower overall emissions
- Adaptability to changing emission sources and levels
- Over 130 biofilter technology systems installed at over 90 locations

KEY FEATURES:

- FRP construction without metal support structure (no corrosion)
- Long media life (guaranteed) – numerous media available with up to 10-year warranty
- Ease of Installation (modular)
- "Drop and Start-up" (i.e., drop unit on pad, pre-loaded media)
- Single or dual-zone media tailored to air influent and treatment goals
- High degree of automation & process control



MODULAR BIOFILTER SYSTEMS

SERIES/LINE	MODELS	MEDIA (ft ³)	CUBIC FEET PER MIN (CFM)	EBRT/SECONDS (DEFAULT)
Cylindrical Biofilter (H)	8	120-680	120-2720	10-60 (30)
Industrial Biofilter (I)	13	150-3900	224-8350	30-120 (75)
Biofilter Box (P&B)	14	448-4179-6	450-1670	15-60 (30)

TAILORED SOLUTIONS FOR YOUR FACILITY



CYLINDRICAL BIOFILTERS (H)

Envirogen H-series are single media chamber systems that can be filled with inorganic media only or inorganic carbon impregnated and organic media, forming a dual zone treatment system. The H-series can be designed for hydrogen sulfide (H_2S), reduced sulfur compounds (RSC) and volatile organic contaminant (VOC) removal. The H-series consists of round FRP vessels from 6' to 12' in diameter.



INDUSTRIAL BIOFILTERS (I)

The I-series modular biofilters feature a small humidification chamber and/or treatment chamber for ammonia or other compounds, followed by a single or dual zone media chamber. These are similar to the Envirogen B-series with improved access and irrigation systems. These systems were primarily designed for industrial applications for VOC and other industrial emission control challenges. Our industrial biofilters are designed for air flows as low as 120 cfm up to 8,350 cfm per model dependent on the contaminant type and mass loading.



INBIOFILTER BOX (P&B)

The P-series and B-series are FRP boxes that start at 8' x 8' and run up to 11' x 52'. They can be configured as single or dual-zone ecosystems with media customized to target a single contaminant or multiple contaminants efficiently. The B-series is designed with easy access points and external piping for the irrigation system, improving the ease of maintenance and monitoring.

LONG-LIFE FILTER MEDIA WITH 10-YEAR WARRANTY

The Envirogen biofilter product line features a set of long-life engineered filter media matched to your project. With filter media guaranteed for up to 10-years it helps ensure lower project life cycle costs, consistent compliance, and excellent system performance:

- ScorFil™ inorganic, scoria lava
- VamFil™ aged bark, engineered
- FlexFil™ synthetic structural or random packed media
- NutraFil™ nutrient impregnated inorganic media
- Other filter media available

ABOUT ENVIROGEN

Envirogen is a leading international provider of water and wastewater treatment solutions. We solve complex challenges relating to water availability and quality, and help our customers to increase productivity, reduce costs and meet environmental and sustainability targets.

We do this through offering:

- Best in class water and wastewater treatment and process filtration technology
- Expertise in design, project management and engineering
- World class manufacturing and servicing capability



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UK and Europe: UK, The Netherlands, Germany, France, Italy.

For further details, visit our website or contact our main office locations above.

www.envirogen.com

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