

Low Flow Solutions for Municipal Systems

Envirogen Technologies, Inc.'s **Small Systems** business offers excellence in process technology, with pre-engineered and packaged modular systems focused on treating flows from 5 gallons per minute and larger.

Our **on-site service** includes the design and fabrication of a customized system; delivery, installation and maintenance of the system; as well as handling of the spent resin and waste management.

These cost-effective systems require minimal operator attention, typically with no backwashing and no waste handling. For maximum efficiency, our systems are easily adaptable, and the vessels can be configured to treat a wide range of flows.



Envirogen Technologies' Small System Services

Envirogen Technologies offers various treatment methods to remove inorganic contaminants, using a combination of products and technologies, dependent upon the contaminant.

Contaminant	Technology				Products				
	On-site Regenerated Media	Off-Site Regenerated Media	Disposable Media	On-Site Chemical Feed/Backwash	SimPACK™	FlexSorb™	HyperSorb™	Coagulation/Filtration	MinX™
Arsenic	X	X	X	X	X	X	X	X	X
Nitrate	X				X				X
Radium	X	X	X		X	X	X	X	X
Uranium			X			X	X		
Perchlorate			X			X	X		
Iron/Manganese				X				X	
Barium	X	X		X	X	X	X	X	X
Calcium/Magnesium	X	X		X	X	X	X	X	X
Chromium/Metals		X				X	X		

Our customized solutions are determined by treatment requirements, space constraints and flow ranges.

Low Flow Solutions		
Type	Minimum GPM	Maximum GPM
FlexSorb – 14	5	100
FlexSorb – 16	8	200
HyperSorb	35	1,350
MinX™	35	500

FlexSorb™

- 5 – 200-GPM vessel exchange process
- Off-site regeneration
- Regenerable and/or non-regenerable media

Advantages:

- No chemicals, minimal operator attention
- No backwashing, no liquid waste handling, vessels easily exchanged
- Modular, wide flow range, easily expandable
- Effluent water samples tested on a regular basis

MobileSorb

- Flexible and versatile
- Custom-loaded trailers to meet demands of any project
- Minimized labor costs
- Fast response to temporary requirements

SimPACK™

- On-site regeneration via simulated moving packed bed process
- Flows greater than 300 GPM

Advantages:

- Modular standard design
- High efficiency with low waste rates (typically <0.5% of treated flow)

MinX™

- On-site regeneration via high-efficiency counter-current packed bed process
- Flows 35 – 500 GPM

Advantages:

- Modular standard design
- High efficiency
- Low waste rates (typically <1% of treated flow)

HyperSorb™

- 35 – 1,350-GPM media exchange process
- Off-site regeneration
- Regenerable and/or non-regenerable media
- Uniform flow distribution

Advantages:

- No chemicals, minimal operator attention
- No backwashing, no liquid waste handling
- Easy media exchange
- Modular standard design, easily expanded

Coagulation Filtration

- 25 – 10,000-GPM flow range
- Sequential backwashing with vertical vessels for continuous operation
- Proprietary filtration media
 - Low backwash volume
 - High flow loading rate

Advantages:

- Modular standard designs
- Minimal operator attention
- Low waste rate
- Small footprint



Innovative solutions for low flow systems

Low Lifecycle Cost

In today's economic environment, municipalities are concerned with not only the initial capital expense, but also the operating expenses, waste rates and wastewater chemistry.

Our approach takes into consideration the requirements of the client and finds the lowest lifecycle cost solution that effectively meets their needs

Quality Water – Guaranteed

We believe in being a partner with each client – working together to provide safe drinking water to your community. Your treatment objective is our treatment objective; you get what you contract for, with no excuses.

Based upon the chemistry of the water, Envirogen Technologies guarantees quality and consistency for the duration of the contracted lifecycle.

Flexibility ensures that our systems will be able to meet new regulatory requirements.

Our clients can be confident that no unexpected surprises await them concerning:

- Life of the assets
- Asset capabilities
- Regulatory compliance
- Operating expenses

Water Services Agreement

Envirogen Technologies packages solutions, lifecycle cost, process guarantees and quality service in a long-term service agreement that cares for and maintains the treatment systems we provide. This agreement for service includes:

- Parts and service labor
- Equipment inspections
- On-site maintenance, as required
- System optimization
- On-site media replacement
- In-house laboratory analysis
- Instrument calibrations
- PLC programming & upgrades
- Bag filter supply
- Envirogen Technologies as a licensed Radiological Services Provider

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