

## TECHNOLOGY FACT SHEET

### Shipping Container Configurations SC-20 & SC-40 Biofilter®

The SC Biofilter® system is an onsite wastewater treatment solution designed to treat septic tank effluent to tertiary quality before it even enters the ground. By removing wastewater contaminants outside of the soil, the environmental impact is greatly reduced. This patented trickling system utilizes an absorbent foam filter medium that maximizes surface area, produces no aerobic sludge, increases retention time, and allows air flow between pieces; optimizing biological growth. Extensive third party testing confirms expected removal rates of 95% BOD, 95% TSS, 99% *E. coli*, and 60% TN.



**Waterloo Biofilter  
Systems Inc.**

143 Dennis Street, P.O. Box 400  
Rockwood, Ontario, Canada, N0B 2K0  
Tel: 1-519-856-0757  
Fax: 1-519-856-0759  
Email: [info@waterloo-biofilter.com](mailto:info@waterloo-biofilter.com)

[www.waterloo-biofilter.com](http://www.waterloo-biofilter.com)

### Advantages

#### *Cost Effective*

- ▶ few moving parts
- ▶ modular technology
- ▶ simple and infrequent maintenance requirements
- ▶ low power consumption
- ▶ minimal onsite installation
- ▶ ships as standard ISO container
- ▶ sits directly on crushed stone or concrete foundation

#### *Superior Technology*

- ▶ excellent, documented treatment levels
- ▶ over 14 years continuous experience
- ▶ most passive system available
- ▶ no aerobic sludge to manage
- ▶ easily handles surge and no-flow periods
- ▶ quick start-up period
- ▶ small footprint, minimal site disturbance
- ▶ non-biodegradable filter media lasts 20-30 years or more
- ▶ very robust and recoverable if overloaded or mistreated
- ▶ insulated for cold climates
- ▶ customizable to meet unique site requirements

### Features

- ▶ Subsurface disposal bed is greatly reduced in both area and thickness over conventional drain fields; reduces land use and installation costs
- ▶ UV option for surface disposal allows wastewater to be reused onsite for uses such as irrigation and toilet flushing
- ▶ Custom painted to match surroundings, custom designed to meet specific site requirements
- ▶ Options available for Phosphorous and additional Nitrogen removal

