



**eVOQUA**  
WATER TECHNOLOGIES



WHISPER® Biofilter System

## WHISPER® BIOLOGICAL ODOR CONTROL SYSTEMS

### ACHIEVE 99% HYDROGEN SULFIDE REMOVAL WITH QUIET OPERATION

The WHISPER® Biofilter is a one or two stage odor control unit that allows for optimal odor removal via variably controlled bed(s) that provide the proper biological environment for H<sub>2</sub>S and associated sulfur compound removal. Units are designed for quiet operation with high odor removal.

#### How It Works

WHISPER Biofilters are packed with Bioglas® media. The Bioglas media is manufactured in the USA from acid resistant recycled glass material as the substrate for the biomass. Each media bed is intermittently irrigated with water and nutrients to provide optimal conditions for the biomass growth. The unique irrigation system uses a rotating arm to provide the most uniform water and nutrient distribution available. The incoming air is passed into the unit by a variable speed controlled corrosion resistant fan, which provides quiet operation, and then through an air distribution plate to provide even distribution throughout the media.

The WHISPER Biofilter removes 99% of incoming H<sub>2</sub>S and effectively reduces other common odor compounds. The WHISPER Biofilter can treat airflows up to 1,100 cfm, and H<sub>2</sub>S concentrations above 100 ppm. The units are designed and fabricated in the USA with skid mounted controls for easy installation and operation.



Long-lasting, nondegradable Bioglas® media.

## Applications

- Lift Stations
- Headworks
- Vaults or enclosed areas in the collection system

## Worry Free Odor Control

Evoqua has six (6) regional service centers staffed with experienced personnel that can provide turn-key Full Service WHISPER units on a monthly rental basis or for capital purchase. Our Full Service program includes on-site evaluation, installation, operation, service, and performance reports. With Evoqua, you can rest assured that odor problems are under control.

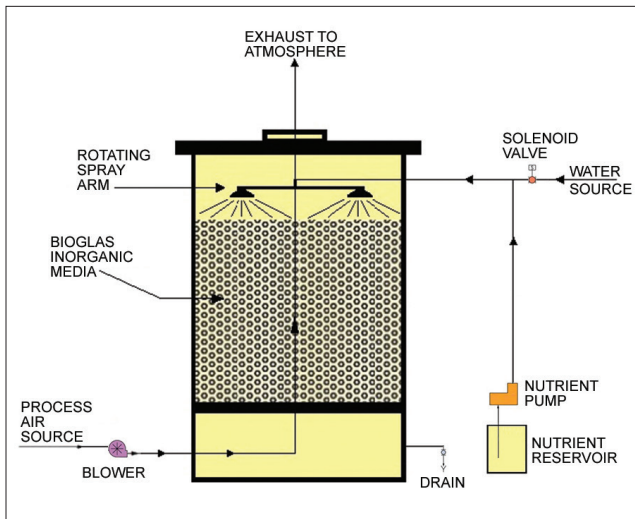
## Features

- Achieves 99% Hydrogen Sulfide Removal
- Innovative Rotating Irrigation System
- Nondegradable Bioglas® Media
- Integral Nutrient Feed System
- Variable Speed Fan for Quiet Operation
- Low Profile for Residential Locations
- Designed and manufactured in USA

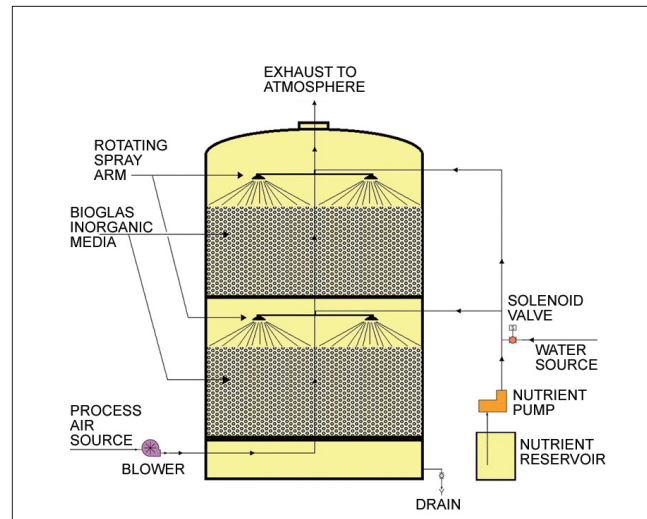
## WHISPER® BIOFILTER DESIGN INFORMATION

Model unit	Media Bed	Airflow Rate cfm	Average H <sub>2</sub> S ppm	Inlet Connection inches	Dimension LxWxH inches	*Electrical Requirements FLA at 460V/3Ph/60Hz
W48	Single	240	100	6	90x64x78	5
W72	Double	600	100	8	162x80x118	6.4
W96	Double	1,100	100	10	186x102x128	8.3

\*Electrical requirements do not include options such as freeze protection.



Single Stage Whisper Biofilter - Process Flow Diagram



Double Stage Whisper Biofilter - Process Flow Diagram



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