

# ZABOCS® Biological Odor Control Systems

Siemens Water Technologies offers a full range of biological odor control systems for municipal and industrial odor control.

## ZABOCS Biofilter

The ZABOCS® biofilter is a two-stage odor control system combining biofiltration with an integral activated carbon media polishing stage for complete odor removal.

### First Stage

The first stage uses a manufactured expanded clay media as the substrate for the biomass. The media bed is intermittently irrigated with water and nutrients for optimum bacteria growth. The incoming air is pre-humidified, and passes through a unique air distribution plenum to assure even air flow through the media bed. The first stage removes 99% of the H<sub>2</sub>S as well as other odorous compounds.

### Second Stage

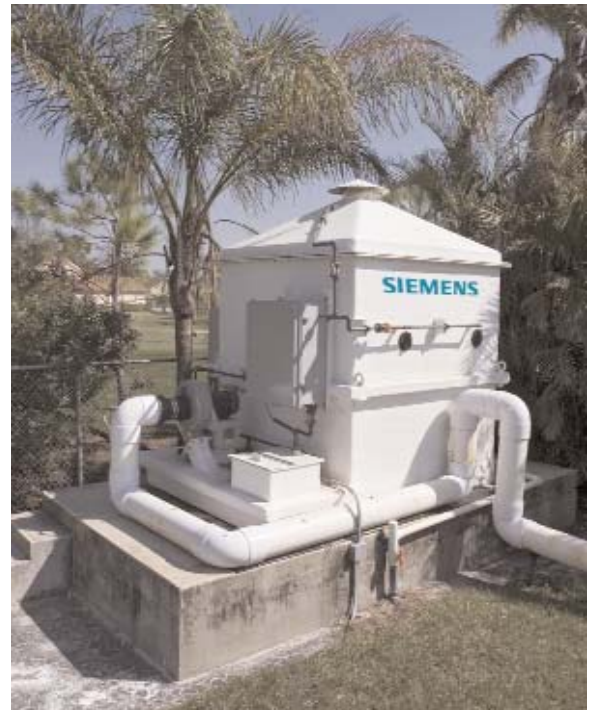
Activated carbon is used in the polishing stage to remove residual VOC's and insoluble organic compounds.

The ZABOCS® biofilter can treat air flows up to 5000 cfm (8500 m<sup>3</sup>/h), and H<sub>2</sub>S concentrations in excess of 100 ppm.

The Siemens ZABOCS® biofilter is fabricated from premium vinyl ester FRP. Each unit is equipped with a variable speed drive for the fan, and a custom Siemens biofilter process controller.

### Standard Features

- Two-stage odor control
- Variable speed fan
- Biofilter process controller
- Factory assembled for "Plug & Play" installation
- FRP construction
- Low profile for residential locations
- Siemens service and support

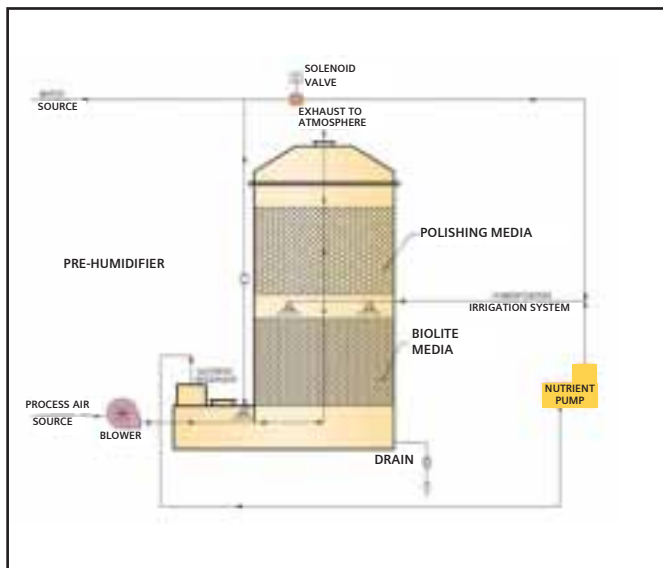


## ZABOCS® Design Information

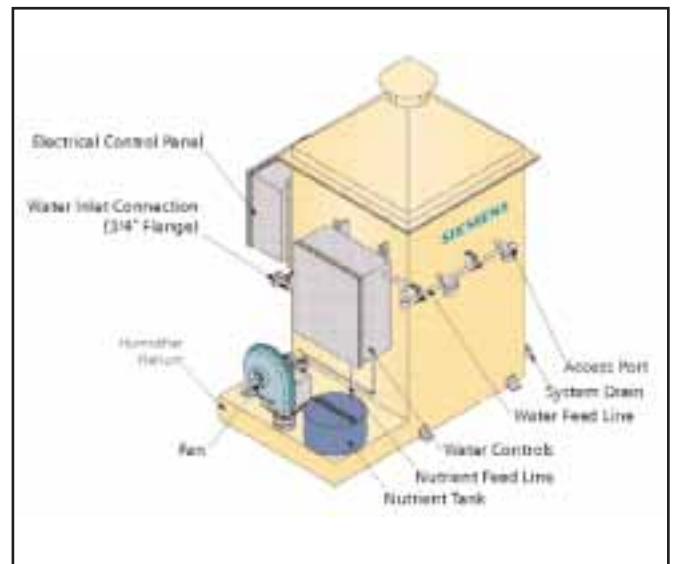
Model	Airflow Rate*	Dimensions LxWxH	Inlet Connection	Shipping Wt	Operating Wt	Estimated System Power
Unit	cfm m <sup>3</sup> /hr	ft mm	in mm	lbs kg	lbs kg	HP kW
4000	350	7 x 4 x 9	6	5,400	6,000	5.5
	595	1980 x 1220 x 2700	150	2500	2700	4.1
5000	600	8 x 5 x 9	6	7,700	8,500	5.5
	1020	2285 x 1525 x 2700	150	3500	3900	4.1
6000	850	9 x 6 x 9	7	9,000	10,000	5.5
	1445	2590 x 1830 x 2700	180	4100	4500	4.1
7000	1,150	10 x 7 x 9	7	11,400	12,700	5.5
	1955	2895 x 2035 x 2700	180	5200	5800	4.1
8000	1,500	12 x 8 x 9	12	14,300	16,000	3.5
	2550	3660 x 2440 x 2700	300	6500	7300	2.6
8010	2,000	14 x 8 x 9	12	18,700	21,000	5.5
	3400	4265 x 2440 x 2700	300	8500	9500	4.1
8015	3,000	19 x 8 x 9	16	27,600	31,000	5.5
	5100	5865 x 2440 x 2700	400	12500	14100	4.1
8020	4,000	24 x 8 x 9	16	36,600	41,000	8.0
	6800	7390 x 2440 x 2700	400	16600	18600	6.0
8025	5,000	30 x 8 x 9	18	46,500	52,000	8.0
	8500	8915 x 2440 x 2700	480	21000	24000	6.0

\* Airflow rates based on up to 100 ppm H<sub>2</sub>S loading. Current based on 480 VAC/3Ph/60 Hz. Power supply for all other models and does not include options such as freeze protection, etc.

### Process Flow Diagram



### Isometric Drawing



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