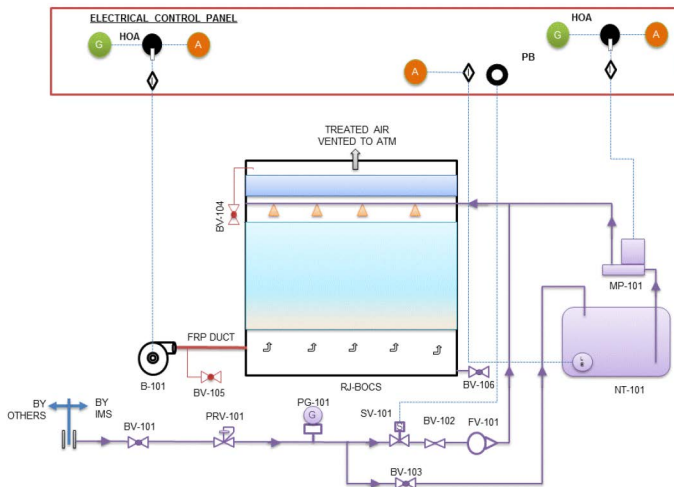


The IMS I-BOx™ Series odor control system (Patent Pending) is an advanced two-stage biological system that provides point source odor control. The first stage is a biological reactor where bacteria are used to oxidize hydrogen sulfide (H₂S) and organic sulfur compounds. The second stage uses activated carbon to remove residual H₂S and organic odors.



I-BOx™

- Two-Stage Design for H₂S and Organic Odor Removal
- Compact Design
- “Plug & Play” Installation
- Non-Hazardous Biological Process
- 99+% H₂S Removal Efficiency
- Quiet & Easy Operation



I-BOx™ - Process & Instrumentation Diagram

MAJOR SYSTEM COMPONENTS

- FRP Exhaust Fan
- FRP Vessel with Extended Sump
- Inorganic Biological Media (Stage 1)
- Activated Carbon Media (Stage 2)
- Weather Enclosure (Optional)
- Air Distribution System
- Media Irrigation System
- FRP Control Panel
- Nutrient Tank with Nutrient Pump
- FRP Exhaust Stack

HOW IT WORKS

The system comprises two distinct process stages: biological stage and adsorption stage. The adsorption stage uses virgin activated carbon. The fan operates continuously, pulling foul air from the process area through the odor control system and discharging clean air to the atmosphere.

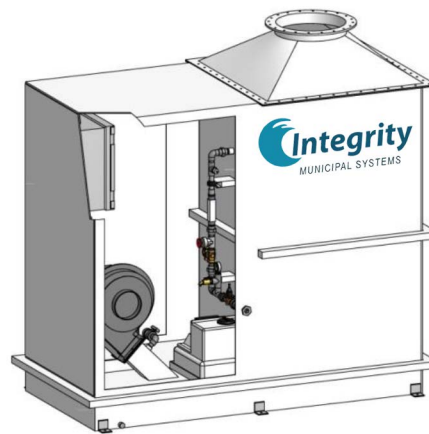
Stage 1 is designed to remove hydrogen sulfide (H₂S) and volatile organic sulfur compounds by providing an environment promoting the growth of acidophilic, sulfur-oxidizing bacteria (principally *Thiobacillus thiooxidans*). The first stage media is an inert, porous, mineral material designed to resist compaction and degradation from the acidic sulfates produced by the biological oxidation of hydrogen sulfide. Periodic media irrigation provides moisture for the bacteria, and removes the acidic and biological waste byproducts.

Stage 2 is used to remove any remaining hydrogen sulfide and odorous organic compounds. The second stage media is activated carbon.

SYSTEM FEATURES & BENEFITS

- Two-stage odor control process
- Compact, small footprint design
- Easy to operate
- Low pressure drop
- Single-piece construction
- Inert media
- Superior non-corrosive materials
- Pre-assembled & factory tested
- Suitable for outdoor installation
- Weather enclosure (Optional)

I-BOx™ with Optional Weather Enclosure →



STANDARD MODEL DESIGN DATA

Model	Airflow Rate CFM (m ³ /h)	Overall Dimension L x W x H ft (mm)	Inlet Connection Inches (mm)	Shipping Weight lbs (kg)	Operating Weight lbs (kg)	Fan Motor HP (kW)
I-BOx™ 4000	Up to 350 (Up to 600)	6.5 x 4.0 x 9.5 (1980 x 1220 x 2900)	6.0 (150)	5,600 (2540)	6,000 (2700)	5.0 (3.7)
I-BOx™ 5000	350-580 (600-1000)	7.5 x 5.0 x 9.5 (2285 x 1525 x 2900)	6.0 (150)	8,000 (3600)	8,500 (3850)	5.0 (3.7)
I-BOx™ 6000	580-850 (1000-1450)	8.5 x 6.0 x 9.5 (2590 x 1830 x 2900)	7.0 (180)	9,000 (4082)	10,000 (4500)	5.0 (3.7)
I-BOx™ 7000	850-1200 (1450-2100)	9.5 x 6.8 x 9.5 (2895 x 2083 x 2900)	7.0 (180)	11,500 (5216)	12,700 (5760)	5.0 (3.7)
I-BOx™ 8000	1200-1500 (2100-2550)	12.00 x 8.0 x 9.5 (3658 x 2439 x 2900)	12 (300)	14,500 (6577)	16,000 (7257)	5.0 (3.7)
I-BOx™ 8010	1500-2000 (2550-3400)	14.00 x 8.0 x 9.5 (4265 x 2439 x 2900)	16 (400)	19,000 (8618)	21,000 (9525)	5.0 (3.7)
I-BOx™ 8015	2000-3000 (3400-5100)	19.25 x 8.0 x 9.5 (5865 x 2439 x 2900)	16 (400)	28,000 (12700)	31,000 (14061)	5.0 (3.7)
I-BOx™ 8020	3000-4000 (5100-6800)	25.00 x 8.0 x 9.5 (7620 x 2439 x 2900)	16 (400)	37,000 (16783)	41,000 (18600)	7.5 (5.5)
I-BOx™ 8025	4000-5000 (6800-8500)	29.75 x 8.0 x 9.5 (9068 x 2439 x 2900)	18 (457)	47,000 (21319)	52,000 (23587)	7.5 (5.5)