



SWDBS PRODUCT BROCHURE

SINGLE WALL DEEP BED SCRUBBER UNIT

REDUNDANT BLOWER

THE BION DEEP BED SCRUBBER UNIT with redundant blowers is great for environments with high levels of corrosion and contaminants at low to mid airflow ranges. the protected environment, providing clean, pressurized air

MAIN APPLICATIONS

- Pulp and Paper Mills
- Petrochemical Plants
- Refineries

TARGETED GASES

DBSRB ENG v4

Acid and Organic Acids, Mercaptanes, BTX, Hydrocarbons, CONSTRUCTION

316 Stainless Steel and a welded, single wall construction providing maximum durability, ideal for outdoor installations. The standard models range from 1 to 10ft [305 to 3.048mm] tall nominal and 2 to 10ft [610 to 3.048mm] wide nominal to offer a variety of sizing options.

MEDIA

At the center of BION's DBS Units is BION engineered, dryto target specific odors, air pollutants and corrosive gases. BION is happy to assist in selecting the most efficient media prescription to meet your particular needs.

KEY CHARACTERISTICS

BION SUPPORT

- · Standard and customizable configurations available, including multiple materials/finishes, pre and final filter
- target numerous particulate and contaminant challenges.

options, and up to four passes of BION chemical media to

- · Gasketed doors for an airtight seal.
- installation, as well as a tight seal to prevent by-pass at
- · Redundant blower design to prevent down time during
- maintenance and other tasks.

testing.

SWDBS PRODUCT BROCHURE SINGLE WALL DEEP BED SCRUBBER UNIT



STANDARD SWDBS (REDUNDANT BLOWER)		Nominal Unit Width - ft [mm]									
		2 [610]	4 [1219]	5 [1524]	6 [1829]	8 [2438]	10 [3048]				
	1 [305]										
	2 [610]	400 CFM (680 m³/h) 5 ft³ (0,142 m³)	800 CFM (1.359 m³/h) 10 ft³ (0,283 m³)		1,200 CFM (2.040 m³/h) 15 ft³ (0,425 m³)						
	3 [914]				1,800 CFM (3.060 m³/h) 21 ft³ (0,595 m³)						
ft [mm]	4 [1219]			2,000 CFM (3.398 m³/h) 22 ft³ (0,623 m³)	2,400 CFM (4.078 m³/h) 27 ft³ (0,765 m³)	3,200 CFM (5.440 m³/h) 36 ft³ (1,019 m³)					
- 1	5 [1524]				3,000 CFM (5.097 m³/h) 33 ft³ (0,934 m³)	4,000 CFM (6.800 m³/h) 44 ft³ (1,246 m³)					
Nominal Unit Height	6 [1829]				3,600 CFM (6.116 m³/h) 39 ft³ (1,104 m³)	4,800 CFM (8.155 m³/h) 52 ft³ (1,472 m³)					
Nomin	7 [2134]				4,200 CFM (7.136 m³/h) 45 ft³ (1,274 m³)	5,600 CFM (9.514 m³/h) 60 ft³ (1,699 m³)					
	8 [2438]					6,400 CFM (10.874 m³/h) 68 ft³ (1,926 m³)					
	9 [2743]					7,200 CFM (12.333 m³/h) 76 ft³ (2,152 m³)	9,000 CFM (15.291 m³/h) 95 ft³ (2,690 m³)				
	10 [3048]						10,000 CFM (16.990 m³/h) 105 ft³ (2,973 m³)				
	***BOLD Denotes Unit Airflow: CFM (m³/										

***Italic Denotes Media Volume per individual Media Pass: ft3 (m3)

STANDARD FEATURES 316 Stainless steel, single wall construction - mill

- finish Gasketed doors
- 2" [48mm] prefilter (Merv 8 [USA] or G4 [EU]) Two bulk filled media passes with project specific
- BION chemical filtration media 4" [98mm] final filter (Merv 13 [USA] or F7 [EU])
- Draw through configuration
- Redundant, centrifugal, direct drive blowers, each with a severe duty [USA] or IP65 [EU] motor
- VFD and door mounted keypad within each blower section
- Redundant backdraft dampers
- Magnehelic differential pressure gauges across the pre and final filter stages
- Top fill chutes and side clean out ports

OPTIONAL FEATURES One to four passes of BION Media

- Additional materials of construction = aluminum,
- 304 stainless steel, and galvanized steel TEFC [USA] or IP55 [EU] motor
- Control dampers
- Inlet/outlet transitions Single blower
- Passive configuration

BION MEDIA FAMILY

- Painted finish Inlet mist eliminator

Rain louver with birdscreen

**[EU] denotes the specifications of equipment manufactured in Europe.

 $\ensuremath{^{**}}\xspace[\ensuremath{\mathsf{USA}}\xspace]$ denotes the specifications of equipment manufactured in North America.

MEDIA FOR FILTRATION

SINGLE WALL DEEP BED SCRUBBER UNIT



		BION AC	BION ACPA	BION CARB	BION DELTA	BION DOD	BION ISORB	BION OXYL	BION SORB	
	BIOGAS (Landfil, Waste Water Treatment Plants, Agricultural industry, Food industry,)									
SEGMENTS AND GASES	H ₂ S Siloxanes VOCs	BION AC FAMILY	BION ACPA	BION CARB BG		BION DOD				
	INDOOR AIR QUALITY (Hospitals, Schools, Office, Shopping Centres, Airports, Museums, Galleries,)									
	Acid gases Basic gases Formaldehyde NO ₂ O ₃ SO ₂ VOCs		BION ACPA	BION CARB CR			BION ISORB FAMILY		BION SORB FAMILY	
	CORROSION CONTROL (Petro chemical (control rooms, safety valves, compressors), Paper Mills and Pulp manufacturing, Mining industry, Refineries, Chemical industry,)									
	Acid gases Basic gases H ₂ S compounds Ozone	BION AC FAMILY	BION ACPA	BION CARB CR			BION ISORB FAMILY		BION SORB FAMILY	
	ODOR CONTROL (Waste Water Treatment Plants, Cannabis plantations, Refineries, Organic Waste from commercial buildings, Food industry,)									
	Amines Basic gases H ₂ S compounds Mercaptanes NOx Ozone	BION AC FAMILY	BION ACPA	BION CARB ODR	BION DELTA FAMILY		BION ISORB FAMILY	BION OXYL FAMILY		