



MDWSAH PRODUCT BROCHURE

MODULAR DOUBLE WALL SIDE ACCESS HOUSING UNIT

THE BION SIDE ACCESS UNIT is a self-contained, air cleaning system, designed for the removal of both corrosive gases and odors. The modular range provides pressurized and neutralized air, ideal for controlled spaces in industrial and commercial environments.

MAIN APPLICATIONS

- Waste Water Treatment
- Pulp and Paper Mills
- Refineries
- Laboratories
- Hospitals/IVF Centers
- Commercial Buildings
- Food and Beverage
- Museums
- Computer, Control and Motor Control Rooms
- Electrical and Medical Equipment Rooms

TARGETED GASES

- Acetic Acid
- Chlorine Compounds
- Hydrogen Sulfide
- Mercaptans
- Nitrogen Oxides
- Sulfur Oxide

CONSTRUCTION

The SAH units are constructed of aluminum modular framing and insulated double-wall panels/doors. The standard models range from 1 to 10ft [305 to 3.048mm] tall nominal and 2 to 10ft [610 to 3.048mm] wide nominal in order to fit any airflow, space, or budgetary requirement.

MEDIA

At the center of BION's SAH Units is BION engineered, dry-chemical air filtration media - filled within universal PP12 or PP18 modules. A wide variety of media types are available, each designed to 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

- Easily replaceable media modules, prefilters and final filters make system maintenance a breeze.
- Standard and customizable configurations available, including a broad range of materials/finishes, pre and final filter options, and up to four passes of BION chemical media to target a wide array of particulate and contaminant challenges.
- Double wall construction provides noise reduction, thermal insulation as well as a light and compact design.
- Gasketed doors for an airtight seal.
- Aluminum extruded track with integral pile seal ensures easy installation of both filters and modules, as well as a tight seal to prevent by-pass at each stage.

BION SUPPORT

BION offers numerous services including unit sizing and media selection, technical support, media life analysis testing as well as environmental corrosion classification testing.

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STANDARD MDWSAH MODELS		Nominal Unit Width - ft [mm]				
		2 [610]	4 [1219]	6 [1829]	8 [2438]	10 [3048]
Nominal Unit Height - ft [mm]	1 [305]	500 (850) <i>1,000 (1.699)</i>				
	2 [610]	1,000 (1.699) <i>2,000 (3.398)</i>	2,000 (3.398) <i>4,000 (6.796)</i>			
	3 [914]	1,500 (2.549) <i>3,000 (5.097)</i>	3,000 (5.097) <i>6,000 (10.194)</i>	4,500 (7.646) <i>9,000 (15.291)</i>		
	4 [1219]	2,000 (3.398) <i>4,000 (6.796)</i>	4,000 (6.796) <i>8,000 (13.592)</i>	6,000 (10.194) <i>12,000 (20.388)</i>	8,000 (13.592) <i>16,000 (27.184)</i>	
	5 [1524]		5,000 (8.495) <i>10,000 (16.990)</i>	7,500 (12.743) <i>15,000 (25.485)</i>	10,000 (16.990) <i>20,000 (33.980)</i>	12,500 (21.238) <i>25,000 (42.475)</i>
	6 [1829]		6,000 (10.194) <i>12,000 (20.388)</i>	9,000 (15.291) <i>18,000 (30.582)</i>	12,000 (20.388) <i>24,000 (40.776)</i>	15,000 (25.485) <i>30,000 (50.970)</i>
	7 [2134]			10,500 (17.840) <i>21,000 (35.679)</i>	14,000 (23.786) <i>28,000 (47.572)</i>	17,500 (29.733) <i>35,000 (59.465)</i>
	8 [2438]			12,000 (20.388) <i>24,000 (40.776)</i>	16,000 (27.184) <i>32,000 (54.368)</i>	20,000 (33.980) <i>40,000 (67.960)</i>
	9 [2743]				18,000 (30.582) <i>36,000 (61.164)</i>	22,500 (38.228) <i>45,000 (76.455)</i>
	10 [3048]				20,000 (33.980) <i>40,000 (67.960)</i>	25,000 (42.475) <i>50,000 (84.950)</i>

***BOLD Denotes Airflows using PP12 Modules: CFM (m³/h).
 ***Italic Denotes Airflows using PP18 Modules: CFM (m³/h).

STANDARD FEATURES

- Aluminum modular framing
- 304 Stainless steel double wall panels/doors
- Gasketed doors
- Aluminum skid with mounting holes
- 2" [48mm] prefilter (Merv 8 [USA] or G4 [EU])
- Two media passes (PP12 Modules or PP18 Modules) with project specific BION chemical filtration media
- 4" [98mm] final filter (Merv 13 [USA] or F7 [EU])
- Draw through configuration
- One centrifugal, direct drive blower with a TEFC [USA] or IP55 [EU] motor
- VFD and door mounted keypad within blower section
- Magnehelic differential pressure gauges across the pre and final filter stages

OPTIONAL FEATURES

- One to four passes of BION Media
- Additional double wall panel/door materials = aluminum, 316 stainless steel, and galvanized steel
- Explosion proof [USA] or ATEX [EU] motor
- Inlet/outlet transitions
- Redundant blowers with backdraft dampers
- Passive configuration
- Blow through configuration
- Weatherproofing
- Painted panels/doors
- Inlet mist eliminator
- Rain louver with birdscreen

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