DS PRODUCT BROCHURE DRUM SCRUBBER UNIT

THE BION® DRUM SCRUBBER UNIT is perfect for the removal of odorous gases in industrial environments. The up to 1,000 CFM [1.700 $\mbox{m}^{3}\mbox{/h}]$ and are recommended for both low to high load/ and low to high concentration

MAIN APPLICATIONS

- Pulp and Paper Plants
- Lift Stations
- **Pumping Stations**
- urine and fish processing.

TARGETED GASES

- Hydrogen Sulfide Mercaptans

3R ENV DS ENG

- Volatile Organic Compounds (VOC's)

CONSTRUCTION

The Drum Scrubber line is constructed of high-density polyethylene, measuring from 24 to 52in [610 to 1.321mm] including the blower, and 0.75in [19mm] in thickness.

At the center of BION's DS units is BION engineered, dry-BION offers multiple media options for the removal of odorous and sewage gases. The specific media selected is based on each individual project, with an expected Media Life (Autonomy) of six to twelve months, depending

KEY CHARACTERISTICS

- Corrosion resistant and weather-proofed housing makes the DS range ideal for harsh environments and outdoor installations.
- Quiet operation the centrifugal blower operates at low decibels; perfect for residential neighborhoods as well as commercial and industrial settings.
- Low maintenance standard servicing to the centrifugal
- this system.

 Optimal drainage via a port located at the bottom side of
- · Excellent performance in high acid gas, fluctuating

BION SUPPORT

BION offers numerous services including unit sizing and testing as well as environmental corrosion classification

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STANDARD DS Models	DS-100	DS-300	DS-500	DS-750	DS-1000
AIRFLOW	100 CFM	300 CFM	500 CFM	750 CFM	1,000 CFM
	170 m³/h	510 m³/h	850 m³/h	1.275m³/h	1.700 m³/h
VESSEL DIAMETER	24"	30"	36"	45"	52"
	610 mm	760 mm	915 mm	1.150 mm	1.320 mm
VESSEL HEIGHT	48"	60"	60"	48"	60"
	1.220 mm	1.525 mm	1.525 mm	1.220 mm	1.525 mm
INLET COUPLING	4" [USA]	8" [USA]	8" [USA]	10" [USA]	10" [USA]
DIAMETER	DN 140 mm [EU]	DN 160 mm [EU]	DN 200 mm [EU]	DN 200 mm [EU]	DN 200 mm [EU]
MEDIA BED VOLUME	5 ft³	10 ft ³	17 ft ³	27 ft ³	39 ft ³
	0,14 m³	0,28 m³	0,48 m ³	0,76 m³	1,10 m³
VOLTAGE/PHASE/FREQ	110-220/1/60 [USA]	110-220/1/60 [USA]	110-220/1/60 [USA]	230-460/3/60 [USA]	230-460/3/60 [USA]
	380/3/50 [EU]	380/3/50 [EU]	380/3/50 [EU]	380/3/50 [EU]	380/3/50 [EU]
MOTOR RATING	0.5 HP [USA]	1 HP [USA]	1.5 HP [USA]	1.5 HP [USA]	3 HP [USA]
	0,37 kW [EU]	1,5 kW [EU]	1,5 kW [EU]	1,5 kW [EU]	1,5 kW [EU]
*** [USA] denotes drum scrubber specifications manufactured in North America					

[USA] denotes drum scrubber specifications manufactured in North America. *** [EU] denotes drum scrubber specifications manufactured in Europe.

STANDARD FEATURES

- HDPE vessel
- Removable HDPE lid
- One drain with ball valve at base of drum
- Lid mounted centrifugal blower
- TEFC [USA] or IP55 [EU] weatherproofed motor
- Outlet slide gate damper [USA] or butterfly valve [EU] with birdscreen for airflow adjustment
- Inlet flexible coupling connection
- A media bed with BION chemical filtration media, available in both bulk filled and mesh sack designs
- Suitable for outdoor installation

OPTIONAL FEATURES

- Explosion proof [USA] or ATEX [EU] motor
- Outlet silencer
- Inlet mist eliminator
- Passive configuration