

S6.01 Biodiffuser™ Septic Leaching Chamber Specification

Scope

This specification describes the Standard, High-Capacity, Bio 2, and Bio 3 BioDiffuser units for use in onsite wastewater disposal applications.

Chamber Requirements

BioDiffuser chambers are manufactured from high-density polyethylene with an open bottom, solid top and louvered sidewalls. Sidewall louvers shall be designed to minimize soil intrusion.

Chamber shall meet the load rating of H-10 (16,000 lb per axle) with a minimum of 12-inches (300 mm) of cover when tested in accordance with IAPMO PS 63 and installed in accordance with ADS installation procedures.

The 16" (400 mm) high capacity chamber is also available in H-20 (32,000 lb per axle) rated version. To order the H-20 ARC chamber model, please contact an ADS representative.

Chamber Connection

Each chamber shall interlock with the beginning of the next chamber by overlapping post and dome while engaging overlapping flanges.

Material Properties

Each chamber shall be manufactured from high density polyethylene resin as defined and described in IAPMO PS 63. .

Installation

Installation shall be in accordance with ADS installation procedures and those issued by the local health department regulations. .

Performance

Water Quality Units shall remove a minimum of 80% of the first flush total suspended solids (TSS) based on flow rates and corresponding sieve sizes shown in Table 1. Water Quality units shall be installed "offline" to prevent re-suspension of solids in high flow situations. Offline installation shall be constructed utilizing an ADS By-Pass structure. Flow through the unit shall be controlled by an orifice fabricated on the outlet end of the structure.

Chamber Dimensions for 16" (406 mm) High Capacity Model # 1600BD

Length (A) in. (mm)	Repeat Length (E) in. (mm)	Side Wall Height (B) in. (mm)	Overall Height (C) in. (mm)	Overall Width (D) in. (mm)	Capacity ft ³ (m ³)	Weight lbs (kg)	Units per pallet	Truckload Quantity
76" (1930)	75" (1905)	11.2 (285)	16" (406)	34" (864)	13.6 (0.39)	35 (15.9)	45	18 pallets

* End caps may reduce truck load pallet quantity.

