

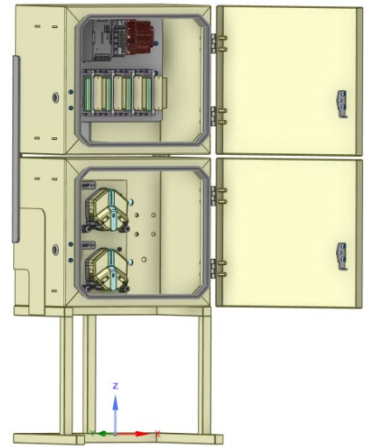
DUAL DOSING FOR BOD2

TECHNICAL DATA SHEET

The Dual Dosing System enhances BOD2 printers by expanding chemical dosing capabilities from one to two components. This system is particularly beneficial when printing with concrete, as it allows for the addition of an accelerator directly at the printhead. This feature significantly reduces clogging, making the concrete more workable and controllable, which is crucial for maintaining smooth and efficient printing operations.

Key Features

- **Dual Additive Pumping:** Expands chemical pumping capabilities, allowing for two different additives.
- **Upgraded Printhead System:** Incorporates a spray system in the printhead for more effective distribution.
- **Reduced Clogging in Concrete Printing:** Direct addition of the accelerator at the printhead ensures the concrete is easier to work with and control, significantly minimizing the risk of clogs.
- **HMI Integration:** Full control via the Human-Machine Interface (HMI) allows for precise dosing adjustments.
- **Efficiency Improvements:** Reduced setup time and more accurate pump movements contribute to a more streamlined concrete printing process.
- **Increased Capacity:** Suitable for handling higher volumes, making it ideal for large-scale concrete printing projects.



Technical Specifications

- **Cabinet Dimensions:** 280x450x1200mm (closed); 800x450x1200mm (open).
- **Flow Rate:** Adjustable, ranging from 1.97-688 ml/min (with water).
- **Pressure Capability:** Operates at up to 1.4bar (continuous) and 2.4bar (intermittent).
- **Weight:** 50kg.
- **Construction:** Steel cabinet, polyamide hoses, and brass spray nozzles.
- **Power Source:** Powered directly from the main E-box.

Installation and Integration

The Dual Dosing System is a stand-alone enhancement designed specifically for integration with BOD2 printers, significantly expanding their chemical dosing capabilities from one to two components. This advancement is especially beneficial for applications in concrete printing, as it allows for the direct addition of an accelerator at the printhead. This crucial feature greatly reduces clogging, making the concrete more workable and controllable, thereby optimizing the printing process.

The system comprises a robust cabinet equipped with electronics and pumps. Hoses run through existing e-chains to the printhead, culminating in a sophisticated spray inlet system within the x-carriage. The entire setup is tailored for our d.fab additive solution, with dimensions and capacities carefully chosen to match the specific chemical properties, flow rates, and pressure requirements of the applications.

Seamlessly integrating with the printer's control software, the Dual Dosing System's operation can be precisely managed through the Human-Machine Interface (HMI). The cabinet connects to the main e-box using two cables and features inlets for canisters, which can be conveniently positioned next to the cabinet. This design ensures a streamlined setup, maintaining the integrity and efficiency of the printing process.