

TECHNICAL DATA SHEET

ALab™ dFlow Electronic Bottle-Top Dispenser

Electronic bottle-top dispenser · 0.1–99.9 mL · 100 µL resolution · 16 speed levels · ISO 8655



ACS Material ALab™ dFlow Electronic Bottle-Top Dispenser

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SECTION I

Product Overview

The ALab™ dFlow Electronic Bottle-Top Dispenser is a motor-driven bottle-top dispenser for reagent delivery in the laboratory. It offers a 0.1–99.9 mL volume range and a 10 mL maximum piston lift as separate specifications, at 100 µL resolution. Dispensing is driven by a stepper motor under digital control. Speed: 16 levels; aspiration and dispensing speed are adjustable. Two operating modes: continuous dispenser and stepper. A TFT display module carries volume selection and control, and the control type is external. A reagent recovery feature reduces waste. Quality Control: ISO 8655. Relative error and coefficient of variation are specified individually at the 10 mL, 5 mL and 1 mL nominal volumes (Section III).

SECTION II

Core Advantages

- Motorized stepper dispensing — smooth, accurate dispensing from a stepper motor under digital motor control
- 16 speed levels — aspiration and dispensing speed are adjustable
- Two operating modes — continuous dispenser and stepper
- Reagent recovery feature — a recovery function to reduce waste

SECTION III

Specifications

Technical data

Specifications	
Volume Range	0.1–99.9 mL
Max. Piston Lift	10 mL
Resolution	100 µL
Volume Accuracy	Specified per nominal volume — see the table below
Speed	16 levels · aspiration and dispensing speed are adjustable
Operating Modes	Continuous dispenser · Stepper
Display / Control Type	TFT display module for volume selection and control · external control
Reagent Recovery	Reagent recovery feature
Operating Temperature Range	15 °C–40 °C
Quality Control	ISO 8655
Media	Bases, saline solutions, acids and some organic solvents
Dimensions · Weight · Power	Confirm at quotation

Volume accuracy — specified per nominal volume

10 mL	$R = 0.5\% \cdot CV = 0.3\%$
5 mL	$R = 1.0\% \cdot CV = 0.6\%$
1 mL	$R = 5.0\% \cdot CV = 3.0\%$

R is relative error and CV is coefficient of variation. Accuracy is specified individually at 10 mL, 5 mL and 1 mL, and the values are not interchangeable: at 1 mL both R and CV are 10 times the corresponding values at 10 mL. Select against the value specified for the volume actually dispensed.

Scope of delivery

- Sales unit: 1 unit
- Control type: external control
- Power requirements: confirm at quotation
- Package contents and configuration: confirm at quotation
- Bottle thread and adapters: confirm at quotation
- Options and spare parts: confirm at quotation

SECTION IV**Applications**

Typical applications for the ALab™ dFlow Electronic Bottle-Top Dispenser include:

- Bases and saline solutions
- Acids — confirm chemical compatibility for the specific reagent and concentration before use
- Some organic solvents — suitability depends on the specific reagent and concentration

Product value: a 0.1–99.9 mL volume range at 100 µL resolution with a 10 mL maximum piston lift, 16 speed levels with adjustable aspiration and dispensing speed, two operating modes, a reagent recovery feature and ISO 8655 quality control, under external control.

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