

Liquid dispensing

Multidrop Combi nL Reagent Dispenser

Any laboratory can experience accurate and consistent high-throughput dispensing with the Thermo Scientific™ Multidrop™ Combi nL Reagent Dispenser. The Multidrop Combi nL Reagent Dispenser offers:

- **Reliable low-volume dispensing**—Precisely dispense over a 50 nL to 50 μ L range to obtain high-quality data.
- **Flexibility**—Reproducibly dispense into plates with heights ranging from 5 mm to 50 mm. Fill rows, columns, or individual wells with easy-to-use Thermo Scientific™ FILLit™ Software.
- **Effortless dispensing**—The icon-based onboard user interface makes all functions easy to set up, use, and maintain.
- **Lower reagent costs**—Low-volume dispensing, minimal dead volume, and a backflush function minimize consumption and waste of expensive reagents.
- **High throughput**—Rapid dispensing and full automation compatibility provide high throughput for laboratories that require low-volume assay formats.

Specifications	
Dispensing technology	Pressurized valve system
Channels	8
Dispensing volume	50 nL to 50 μ L
Dispensing height	5 mm to 50 mm
Dispensing range and increments*	50–999 nL in 1 nL increments 1.00–9.99 μ L in 10 nL increments 10.0–50.0 μ L in 100 nL increments
Interface	Onboard software and serial RS-232C or USB for PC control
Plate type	96-well, 384-well, and 1,536-well plates
Dispensing accuracy	<1 μ L: \pm 5% >1 μ L: \pm 2%
Dispensing precision	50 nL: CV \leq 10%; 0.5 μ L: CV \leq 5%; 1–10 μ L: CV \leq 4%; >10 μ L: CV \leq 2%
Dispensing speed	384-well plate: 1,536-well plate: • 50 nL in 6 sec • 50 nL in 21 sec • 1 μ L in 8 sec • 1 μ L in 27 sec
Dead volume**	<1.2 mL
Dimensions (W x H x D)	14.0 x 8.6 x 14.8 in. (35.6 x 21.8 x 37.6 cm)
Weight	21.2 lb (9.6 kg)
Electrical requirements	100–240 V, 50/60 Hz

* 1 nL increments when operated with FILLit Software.

** It is possible to backflush the reagent into the original reservoir to avoid reagent loss.



Ordering information

Description	Cat. No.
Multidrop Combi nL Reagent Dispenser, 50 nL to 50 µL	5840400
Multidrop Combi nL Reagent Dispensing Valve	N07494
Reagent reservoir 250 mL with accessories*	N07489
Reagent reservoir 250 mL storage bottle**	N07497
Reagent reservoir 1,000 mL†	N07490
Glass reagent reservoir 250 mL‡	N09504
Glass reagent reservoir 1,000 mL§	N09505
Tubing set and manifold for 250 mL reagent reservoir	N07491
Tubing set and manifold for 1,000 mL reagent reservoir	N07492
Tubing assembly from reagent reservoir to pressure/vacuum system	N07495

* 250 mL polypropylene reservoir with filter, tubing, and manifold

** 250 mL polypropylene reservoir without tube connectors

† 1,000 mL polypropylene reservoir with filter, tubing, and manifold

‡ 250 mL glass reservoir with filter, tubing, and manifold

§ 1,000 mL glass reservoir with filter, tubing, and manifold

 Learn more at thermofisher.com/multidrop

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