Liquid dispensing

Multidrop Combi+ and Multidrop Combi SMART+ reagent dispensers for easy, quick, and precise dispensing

Thermo Scientific[™] Multidrop[™] Combi+ and Multidrop Combi SMART+ reagent dispensers offer outstanding performance, versatility, and simplicity for biotech, pharmaceutical, and QC laboratories.

Multidrop Combi+ and Multidrop Combi SMART+ reagent dispensers offer:

- Wide volume range Precise dispensing over a 0.5–2,500 μL range, enabling reproducible assay data.
- Any plate, any well size—From 6 to 1,536 wells and plate heights of 5 to 50 mm, the Multidrop Combi+ and Multidrop Combi SMART+ dispensers work for virtually any application.
- **Simple operation**—The icon-based graphic display makes it easy to use and program, even without training.
- Reduced reagent costs—Low-volume dispensing, minimal dead volume, and backflushing minimize usage of expensive reagents.
- **Traceability**—Multidrop Combi SMART+ dispenser automatically tracks SMART+ dispensing cassette usage for improved reliability and traceability.
- Increased functionality—Easy-to-use Thermo Scientific[™] FILLit[™] Software provides means to develop and transfer protocols into the instrument, as well as offering an extensive plate library.
- **High throughput**—Full robotic compatibility provides increased throughput, backed up by the reliability of the Multidrop technology proven in use with thousands of labs worldwide.

Extensive applications

- Assay development
- Primary and secondary screening
- Compound storage
- Genomics and proteomics research
 - PCR setup
 - Sequencing setup
- Cell-based assays
- ELISAs

Wide range of solutions

- Buffers
- Reagents
- Diluents
- Solvents
- Viscous solutions-detergents and substrates
- Cells
- Beads

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Specifications				
Dispensing technology	Peristaltic pump			
Channels	8			
Dispensing range	0.5–2,500 μL			
Dispensing volumes	Small tube dispensing cassette: 0.5–50 μ L, in 0.5 μ L increments Standard tube dispensing cassette: 5–2,500 μ L, in 5 μ L increments			
Interface	Onboard software and serial RS-232 or USB for PC control			
Plate type	6-well to 1,536-well plates			
Dispensing accuracy	Small tube dispensing cassette: 2 μL, ±10%; 10 μL, ±5% Standard tube dispensing cassette: 20 μL, ±2%; 100 μL, ±1%			
Dispensing precision	Small tube dispensing cassette: 2 µL: CV \leq 5%; 10 µL: CV \leq 3% Standard tube dispensing cassette: 20 µL: CV \leq 1.5%; 100 µL: CV \leq 1%			
Dispensing speed	96-well plate: • 10 μL in 5 sec • 20 μL in 5 sec • 100 μL in 10 sec	 384-well plate: 1 μL in 6 sec 5 μL in 9 sec 10 μL in 13 sec 20 μL in 21 sec 	1,536-well plate: • 1 μL in 15 sec • 5 μL in 28 sec	
Dead volume	<1 mL for small tube dispensing cassette <7 mL for standard tube dispensing cassette Note: Reagents can be backflushed into the original reservoir to avoid loss of expensive reagents.			
Dimensions (W x H x D)	14.0 x 8.6 x 12.9 in. (35.6 x 21.8 x 32.8 cm)			
Weight	20.1 lb (9.1 kg)			
Electrical requirements	100–240 V, 50/60 Hz			



Cassette compatibility

Cat. No.	Description	Multidrop Combi+ dispenser	Multidrop Combi SMART+ dispenser
24072670	Standard tube dispensing cassette	\checkmark	\checkmark
24072671	Standard tube dispensing cassette 5-pack	\checkmark	\checkmark
24072672	Standard tube dispensing cassette 10-pack	\checkmark	\checkmark
24072677	Long standard tube dispensing cassette (tubing length 200 cm)	\checkmark	\checkmark
24073290	Small tube plastic tips dispensing cassette	\checkmark	\checkmark
24073291	Small tube plastic tips dispensing cassette 5-pack	\checkmark	\checkmark
24073295	Small tube metal tip dispensing cassette	\checkmark	\checkmark
24073296	Small tube metal tip dispensing cassette 5-pack	\checkmark	\checkmark
24073293	Long small tube plastic tip dispensing cassette (tubing length 200 cm)	\checkmark	\checkmark
24073298	Long small tube metal tip dispensing cassette (tubing length 200 cm)	\checkmark	\checkmark
24070290	Tubing set for standard tube dispensing cassette (tubing length 40 cm)	\checkmark	\checkmark
24070297	Long tubing set for standard tube cassette (tubing length 200 cm)	\checkmark	\checkmark
N22700	SMART+ small tube plastic tip dispensing cassette		\checkmark
N22702	SMART+ small tube metal tip dispensing cassette		\checkmark
N22704	SMART+ standard tube dispensing cassette		\checkmark
N22706	SMART+ standard tube dispensing cassette, long (tubing length 200 cm)		\checkmark

Ordering information

Description	Cat. No.
Multidrop Combi+ Reagent Dispenser	5840330
Multidrop Combi SMART+ Reagent Dispenser	5840340



Find out more at thermofisher.com/multidrop

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