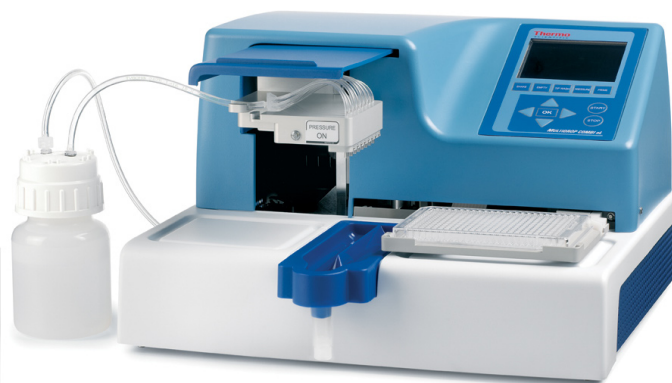


Thermo Scientific Multidrop Combi nL, the latest arrival in Multidrop bulk reagent dispenser family brings unrivalled reliability to meet low volume reagent dispensing requirements in pharmaceutical and biotechnology laboratories. Multidrop Combi nL dispenses volumes from 50 nl to 50 μ l into 1536, 384 and 96 well plates with excellent precision and accuracy.

Thermo Scientific Multidrop® Combi nL



Multidrop Combi nL keyboard and display



Reliable low volume dispensing

Thermo Scientific Multidrop Combi nL is a newest addition in the high-performing Multidrop reagent dispenser family. It provides an easy-to-start and easy-to-handle solution for researchers in transition into low volume assays and dispensing of nanovolumes. Easiness does not mean compromise with performance, instead Multidrop Combi nL guarantees high quality assay data with unparalleled accuracy and precision. Unlike other Multidrop dispensers it utilises pressurized reagent container with valves thus providing accurately controlled liquid flow at all volumes

Increased flexibility

Multidrop Combi nL provides consistent, high-throughput dispensing into 1536-, 384- and 96 well plates covering volume range 50 nl – 50 μ l. It dispenses repeatably into plates with variable height allowing user to fill either rows, columns or individual wells with different volumes without changing cartridges or manifolds. The instrument can be used to dispense all common reagents, diluents, buffers, protein solutions as well as viscous solutions, cells and beads making it ideal for a broad range of assays. The loss

of the reagents is minimized with minimal dead volume and reagent recovery feature which allows user to back flush all remaining reagents inside the tubing system.

Increased easiness

The intuitive graphical user interface makes all functions easy to set-up and use. The key dispensing parameters can be selected quickly in the instrument main menu and no extensive training sessions are needed for routine usage of the unit. The maintenance of the instrument is made easy with special tip wash feature and dispensing head structure which allows quick and effortless cleanup procedure.

Increased functionality

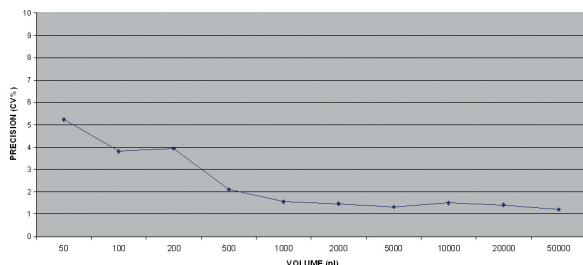
Easy to use FILLit PC-software provides increased functionality for the user. It enables user quickly to define well volumes, build dispensing protocols and store them into the database. Additionally protocols can be downloaded onto the instrument for standalone use or also transferred from the instrument back to the PC for further modification. For increased QC demand the software enables user to print run log including detailed run information.



RapidStak with Multidrop Combi nL - solution for automated reagent dispensing

Easy to automate for higher throughput

Thermo Scientific Multidrop Combi nL is designed for easy integration with automation solutions providing low volume dispensing to high throughput laboratories. The small footprint of the instrument with optimised plate carrier makes it ideal for automated systems. The highest throughput is guaranteed by full integration with a range of robotic platforms, and together with RapidStak stacker, Multidrop Combi nL forms the most robust benchtop automation solutions for nanoliter to microliter volume dispensing.



Dispensing precision (CV%) with 50 nl- 50 µl. Different volumes of 0.04M fluorescein was dispensed into Black Microtiter 384 plate and measured at Ex485/Em518

Thermo Scientific Multidrop Combi nL Technical Information

Plate types	96-, 384-, 1536-well plates		
Dispensing volume range	50 nl - 50 µl		
Dispensing precision (CV%)	50 nl: CV≤10% 0.5 µl: CV≤5% 1-10 µl: CV≤4% >10 µl: CV≤2%		
Dispensing accuracy	<1 µl: ±5% >1 µl: ±2%		
Dispensing speed	384-well plate: 1536-well plate:	50 nl in 6 seconds 50 nl in 21 seconds	1 µl in 8 seconds 1 µl in 27 seconds
Dead volume	<1.2 ml *		
Interface	Serial RS-232, USB		
Overall dimensions	220(H) x 355(W) x 375(D) mm	8.6(H) x 14(W) x 14.7 (D)	
Weight	9.6 kg (21.2 lbs.)		
Power requirements	100-240 Vac, 50/60 Hz, nominal		
	*Reagent recovery option available		

Thermo Scientific Multidrop Combi nL Ordering Information

Cat no	Description
5840400	Multidrop Combi nL , 100-240 V 50/60 Hz

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Europe: Austria +43 1 801 40 0, Belgium +32 2 482 30 30, Finland +358 9 329 100,
France +33 2 28 03 20 00, Germany +49 800 153 6376, Italy +39 02 95059 1, Netherlands
+31 76 571 4440, Russia/CIS +7 095 225 11 15, Spain/Portugal +34 93 223 3154,
Switzerland +41 44 454 12 12, UK/Ireland +44 870 609 9203
Asia: India +91 22 5542 9494, Japan +81 45 453 9220, China +86 21 6865 4588 or +86 10
5850 3588, Other Asian countries +852 2885 4613
Countries not listed: +49 6184 90 6940 or +33 2 28 03 20 00

www.thermo.com/multidrop

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