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Find the *Thermo Multidrop 384* at our website: ***Click HERE***

Product Specifications

Thermo Scientific Multidrop 384 and Multidrop DW are bulk reagent dispensers providing day to day reliability and precise dispensing results for laboratories needing high-speed plate filling to increase throughput.

Thermo Scientific Multidrop 384 and Multidrop DW



Thermo Scientific Multidrop 384



Thermo Scientific Multidrop DW



Detachable 8-channel dispensing cassette

Reliable Dispensing Tools

Thermo Scientific Multidrop 384 and Multidrop DW are known as reliable and robust dispensing tools offering benefits for routine dispensing needs in all laboratories. The reliable operation, combined with excellent dispensing precision, guarantees solid assay data and reproducible results minimizing extra work needed. The easy integration with different automated systems, combined with ease of use results in higher productivity

Precise Dispensing into Microplates

The Multidrop 384 and DW allow continuous dispensing by using a peristaltic pump and dispensing directly from practically any reagent bottle. Up to 8 different liquids can be dispensed into any number of columns using the 8-channel dispensing cassette. The instruments are ideal for volumes over 20 µl, and Multidrop 384 dispenses volumes 5-395 µl in 5 µl increments into 96- and 384-well plates. The Multidrop DW allows dispensing of higher volumes and dispenses volumes of 20-995 µl into standard 96-well plates, DW plates and tubes in 96-well racks. Both Multidrops offer excellent dispensing precision, the CV is less than 1.5% when dispensing 20 µl.

Autoclavable Dispensing Cassette

Multidrops utilize detachable and autoclavable 8-channel dispensing cassettes with silicone tubing. All reagent lines can be back-flushed into a reagent bottle, minimizing the loss of expensive reagents and the dead volume. Cassettes feature wide tubing and a tip diameter which allows reliable dispensing of living cells into microplates.

Easy to Use

The instruments are easy to use with quick volume selection from the instrument keypad and their compact size fits them comfortably into laminar cabinets as well as into automated systems. Although Multidrops work as stand-alone instruments, they can be easily integrated with robotic platforms via the RS-232 serial port to provide even greater flexibility and higher throughput. Combined with the Thermo Scientific RapidStak microplate stacker, Multidrops offer an affordable bench top automation solution. Dispensing cassettes with extended tubing length and a special priming vessel are also available for use in automated environments.

Multidrops' capability to prepare plates fast, allows laboratories to speed up their dispensing and increase throughput.

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Thermo Scientific Multidrop 384 and Multidrop DW

Multidrop	384	DW
Plate types	96-, 384-well plates	96-well plates 96-deep well plates Tubes in 96 tube rack
Dispensing volume range	5 - 395 µl	20 - 995 µl
Dispensing precision	5 µl: CV≤10% (typical) 20 µl: CV≤1.5% (typical) 100 µl: CV≤1% (typical)	20 µl: CV≤1.5% (typical) 100 µl: CV≤1% (typical) 900 µl: CV≤0.5% (typical)
Dispensing accuracy	5 µl: ±3% (typical) 20 µl: ±2% (typical) 100 µl: ±1% (typical)	20 µl: ±2% (typical) 100 µl: ±1% (typical) 900 µl: ±1% (typical)
Dispensing speed	96-well plate: 20 µl in 5 s 50 µl in 8 s 384-well plate: 20 µl in 20 s 50 µl in 25 s	96-well plate: 20 µl in 5 s 50 µl in 8 s 300 µl in 26 s 900 µl in 74 s
Dispensing increments	5 µl increments	5 µl increments
Dead volume	<7 ml *)	<7 ml *)
Interface	RS-232	RS-232
Dimensions (HxWxD)	155 x 310 x 320 mm 6.1 x 12.2 x 12.6 in.	180 x 310 x 320 mm 7.1 x 12.2) x 12.6 in.
Weight	6.2 kg (13.7 lbs.)	6.2 kg (13.7 lbs.)

*) Reagent recovery option

Ordering Information

Catalog Number	Description
5840150	Multidrop 384, 220-240 V 50/60 Hz 1)
5840157	Multidrop 384, 100-120 V 50/60 Hz 1)
5840170	Multidrop DW, 200-240 V 50/60 Hz 1)
5840177	Multidrop DW, 100-120 V 50/60 Hz 1)

1) Multidrop 384 and DW include one dispensing cassette catalog number 24072670

Multidrop Accessories

Catalog Number	Description
24072670	Standard tube dispensing cassette
24072671	Standard tube dispensing cassette 5-pack
24072672	Standard tube dispensing cassette 10-pack
24072677	Long standard tube dispensing cassette (length of tubing 50-200 cm in 10 cm increments)
24070290	Tubing set for dispensing cassette (40 cm tubing set)
24070297	Special tubing set for dispensing cassette (length of tubing 50-200 cm in 10 cm increments)

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DSALHMD384DW
1009 / Rev A

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