

Specifications - Multidrop 384 AH / Titan Stacker

Overall dimensions	29 in (W) x 18 in (D) x 24 in (H) 74 cm (W) x 46 cm (D) x 61 cm (H)	
Weight (total)	Instrument 70 lbs. (32 kg)	Dispensing cassette 0.3 lbs. (124 g)
Mains power supply	100 - 120 VAC, 50/60 Hz, nominal (operating range 90 - 130 VAC) 200 - 240 VAC, 50/60 Hz, nominal (operating range 180 - 256 VAC)	
Power consumption	345 VA (measured @ 230 V/ 50 Hz)	
Fuses	Multidrop 384 AH: 2 x 300 mA for 200 - 240 V, UL 198G Time Delay, 5 x 20 mm 2 x 600 mA for 100 - 120 V, UL 198G Time Delay, 5 x 20 mm Titan 60 Stacker: Slow-blow 3 amp for 115 V Slow-blow 1.5 amp for 230 V	
Operating conditions (Indoor use)	+10°C - +40°C (tested according to IEC 68-2-1, test Ab, cold, IEC 68-2-2, test Bb, dry heat and IEC 68-2-3, test Ca, RH 80 %, damp heat, steady state)	
Transportation conditions	-40°C - +70°C (tested according to IEC 68-2-1, test Ab, cold test and IEC 68-2-2, test Bb, dry heat), packed in transport packaging.	
Storage conditions	-25°C - +50°C, packed in transport packaging.	
Autoclaving conditions of the dispensing cassette	Pressure: 1 bar Temperature: 121°C Time: 20 min Autoclaving: 50 times	
Control panel	Multidrop 384 AH: Keys: Start, Prime/Drop, Empty, Step, Stop Selection switches: Plate (= 96/384), Volume µl, Col (= column) Titan 60 Stacker: Keys: Start, Stop, Restack	
Interface	Serial RS-232C	
	384-well plate dispensing	96-well plate dispensing
Dispensing volume – Stand-alone mode	5 µl to 100 µl in 5 µl increments	5 µl to 995 µl in 5 µl increments
Dispensing volume – Computer Control mode	5 µl to 500 µl in 5 µl increments	5 µl to 2500 µl in 5 µl increments
Multidrop 384 Dispensing speed	20 sec / 20 µl into 384 wells 25 sec / 50 µl into 384 wells	5 sec / 20 µl into 96 wells 8 sec / 50 µl into 96 wells
Multidrop 384 / Titan 60 Throughput	25 µl into 384 wells 116 plates per hour	50 µl into 96 wells 163 plates per hour
Dispensing accuracy	± 3% @ 5 µl (Typical) ± 2% @ 20 µl (Typical) ± 1% @ 100 µl (Typical)	
Dispensing precision	CV ≤ 10% @ 5 µl (Typical) CV ≤ 1.5% @ 20 µl (Typical) CV ≤ 1% @ 100 µl (Typical)	
Dead Volume	< 7 ml	
Plate Types supported:	Supports all plate types from thin 384s to full-height SBS deep wells with no changing of plate adapters. Plate heights from 10 mm to 50 mm in the stand-alone mode and 10 mm to 44 mm when using the Titan 60 Stacker.	