



300 DMC Microplate Dispensing System



The 300 DMC Microplate Dispensing System is the best choice for highly accurate, precise and reproducible Microplate dispensing applications in a production environment. Up to 4 DMC's can be configured to a single dispense conveyor, resulting in a through-put of over 1,000 dispensed microplates per hour, while maintaining CV below 2%.

FEATURES:

- ♦ 350 plates/hour @ 100 μ L dispense with <2% CV
- ♦ Expandable to >1,000 plates/hour
- ♦ 96 and 384 well plates and vial filling capable
- ♦ 8 independent channels
- ♦ Long-life rotary shear valves
- ♦ Full quadrature encoder for absolute syringe positioning
- ♦ Top mounted LCD input panel
- ♦ Stepper driven precision screw thread syringe drive with 6000 step resolution
- ♦ Program retention
- ♦ Accuracy within $\pm 1.0\%$ with 1 ml syringe (full stroke)
- ♦ Precision within 0.05 % CV with 1 ml syringe (full stroke)
- ♦ PTFE or UHMWPE syringes
- ♦ Manual and automatic dispensing of 1 to 8 channel

300 DMC-B SPECIFICATIONS:

Pump Type:	Positive displacement multi-channel syringe pump			
Accuracy:	Within $\pm 1.0\%$ with 1 mL syringes (full stroke)			
Precision:	Within 0.05% CV with 1 mL syringes (full stroke)			
	Standard Syringe Sizes	Resolution	Range	
	1.0 mL	1.0 μL	5.0 μL – 1,000 μL	
	2.5 mL	10.0 μL	10.0 μL to 2,500 μL	
	5.0 mL	50.0 μL	50.0 μL to 5,000 μL	
	0.50 mL syringe available as a special order option			
Valve Design:	3-Way rotary shear valve with: High flow (0.060 in. diameter flow paths), no “pumping” when switched, chemically inert flow path			
Syringe Design:	30 mm stroke glass syringe with $\frac{1}{4}$ - 28 fittings PTFE seals (long-life UHMWPE seals available upon request)			
Power Requirements:	100 - 240 VAC, 50 - 60 HZ @ 20 VA			
Fluid Contact Materials:	Syringe: Borosilicate glass and PTFE or UHMWPE (seal) Valve: PEEK (body) and UHMWPE (rotary plug)			
Throughput with Moduline Systems Conveyor:	Plates Per Hour		Dispenser Configuration	
	330		DMC-B	
	537		DMC-B x2	
	925		DMC-B with 48 port manifold	
Dimensions:	Height	Width	Depth	Weight
	13.19 in. (33.50 cm)	7.88 in. (20.00 cm)– 10.50 (26.67 cm) including handles	6.00 in. (15.24 cm)	13 lb (5.9 kg)
Power Requirements:	100 - 240 VAC, 50 - 60 HZ @ 20 VA			
Environmental:	Temperature	Humidity	Dispense Accuracy	Dispense Precision
	15°C to 40°C (59°F to 104°F)	20% to 95% RH at 40°C (104°F)	$\pm 1.0\%$ with 1 mL syringes	0.05% CV with 1 mL syringes
Regulatory Compliance:	The DMC-B is a general laboratory device not subject to FDA regulatory approval. UL / CE approved Components are used wherever possible.			

Marketed in India by:



Products manufactured by Moduline Systems

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