



96/384 Channel Pipetting System with Integrated Non-contact Dispenser



FEATURES

- 96/384 Syringe-based pipettor
- 96 eDrop dispenses in under one minute
- 3-Position stage
- Hydra wash station below stage
- Chilled sample tube holder
- Deep well plate compatible

BENEFITS

- 96 or 384 simultaneous transfers with superior accuracy and precision, even at submicroliter volumes
- Minimizes the effects of evaporation on sub-microliter dispense volumes
- 3 Plate positions allow for increased functionality, including hit picking
- Saves space and allows for the full use of the 3-position stage
- Maintains temperature-sensitive reagents during operation
- Fast access to samples stored in deep well blocks and tube racks

The Hydra eDrop™ combines the throughput of a 96- or a 384-channel positive displacement pipettor with the flexibility of a non-contact single channel dispenser, capable of performing liquid transfers of 200nL up to 120µL. The Hydra eDrop offers exceptional precision at sub-micro liter volumes while eliminating waste of precious sample material. The Hydra eDrop is the most cost-effective tool for assay miniaturization, forensic and investigative genotyping, protein crystallography, sequencing setup, and PCR setup.



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PRODUCT HIGHLIGHTS

- Compact design requires minimal bench space
- Microsyringe pipetting head transfers 96 or 384 samples simultaneously
- Single channel, non-contact eDrop dispenser conserves precious samples
- Intuitive ControlMate® software makes the system easy for anyone to use

PERFORMANCE SPECIFICATIONS

Catalog Number	Instrument	Volume Range	Accuracy	Precision	0.5 µl expected CV	5.0 µl expected CV	50 µl expected CV
eDrop Single Channel Dispenser							
10961N1	120µl eDrop non-contact dispenser	0.2-120µl	+/- 2.5% or 0.02µl	2.0% or 0.02µl	4.0%	2.0%	2.0%
Hydra 96-Channel Base Instruments							
109610	100µl Stainless Steel Needles	0.1-100µl	+/- 2.5% or 0.01µl	2.5% or 0.01µl	2.5%	2.5%	2.5%
109611	100µl DuraFlex™ Needles	0.1-100µl	+/- 2.5% or 0.01µl	2.5% or 0.01µl	2.5%	2.5%	2.5%
109620	290µl Stainless Steel Needles	0.5-290µl	+/- 2.5% or 0.05µl	2.5% or 0.05µl	10.0%	2.5%	2.5%
109621	290µl DuraFlex Needles	0.5-290µl	+/- 2.5% or 0.05µl	2.5% or 0.05µl	10.0%	2.5%	2.5%
109625	290µl Resin Bead Needles	1.0-290µl	+/- 2.5% or 0.10µl	2.5% or 0.10µl	-	2.5%	2.5%
109630	580µl Stainless Steel Needles	1.0-580µl	+/- 2.5% or 0.10µl	2.5% or 0.10µl	-	2.5%	2.5%
109631	580µl DuraFlex Needles	1.0-580µl	+/- 2.5% or 0.10µl	2.5% or 0.10µl	-	2.5%	2.5%
109635	580µl Resin Bead Needles	2.0-580µl	+/- 2.5% or 0.20µl	2.5% or 0.20µl	-	4.0%	2.5%
109640	1000µl Stainless Steel Needles	5.0-1000µl	+/- 2.5% or 0.50µl	2.5% or 0.50µl	-	10.0%	2.5%
109641	1000µl DuraFlex Needles	5.0-1000µl	+/- 2.5% or 0.50µl	2.5% or 0.50µl	-	-	2.5%
109645	1000µl Resin Bead Needles	8.0-1000µl	+/- 2.5% or 0.80µl	2.5% or 0.80µl	-	-	2.5%
Hydra 384-Channel Base Instruments							
138410	100µl Stainless Steel Needles	0.1-100µl	+/- 2.5% or 0.01µl	2.5% or 0.01µl	2.5%	2.5%	2.5%
138411	100µl DuraFlex Needles	0.1-100µl	+/- 2.5% or 0.01µl	2.5% or 0.01µl	2.5%	2.5%	2.5%

SPECIFICATIONS

eDrop		Wash Pump		Hydra eDrop System Specifications	
Dimensions	13x11x8", 15 lbs	Catalog Number	10961WP (110V)	eDrop Minimum Dispense Volume	200nl
Dimensions	33x28x20cm, 7 kg	Catalog Number	10962WP (240V)	Hydra Minimum Dispense Volume	100nl to 8µl, depending on syringe volume
Power	Universal, 100/240V	Dimensions	12.5x13.5x6", 21 lbs	Compatible Plate Formats	96, 384, 1536*
Air Supply	30 +/-5 PSI air source	Dimensions	31x34x15cm, 10 kg	Universal Plate Positions	3 Standard (SBS)
Hydra II		Power (110V)	100V/120V/2A	Wash Positions	1 Hydra syringe was station
Dimensions	21x14x10.5", 38 lbs	Power (240V)	220V/240V/1A	eDrop Wash	1 eDrop single channel wash station
Dimensions	53x35.5x27cm, 17 kg	Computer Requirements		eDrop Source	1 Tube position
Power	Universal, 100/240V	Operating System	Microsoft Windows® (98, NT 4, 2000, XP)	eDrop Source	Up to 4 optional tube positions
3-Position Stage		RAM	256MB Recommended	96/384 Hydra Pipetting Options	13 Configurations available
Catalog Number	10961XY3	Processor	1.4GHz Recommended	Wash Pump Heads	3
Dimensions	4x12x21", 19 lbs	Communication Ports	2, In any combination of USB or RS232	Wash Fluid Options	2 Different solutions possible
Dimensions	10x30x53cm, 9 kg				
Power	Universal, 110/240V				

* Not recommended for use with Resin Bead Syringes

ACCESSORIES

Catalog Number	Description	Catalog Number	Description
10961NN	Replacement eDrop nozzles, set of 2	10961P-01	Single tube chiller (requires recirculating bath)
10961NT	Replacement eDrop tubing set	10961P-03	Triple tube chiller (requires recirculating bath)
101-10001	Windows® laptop computer		

Corporate Headquarters: Hudson, NH 03051 USA | Tel: 603.595.0505 | 800.345.0206 | email: info@matrixtechcorp.com

European Headquarters: Cheshire SK9 3LP UK | Tel: +44 (0) 161 486 2110 | email: info@matrixtechcorp.eu.com

Asia Pacific Headquarters: Tokyo 101-0032 Japan | Tel: +81 (0)3 5687 5787 | email: asia@matrixtechcorp.com

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