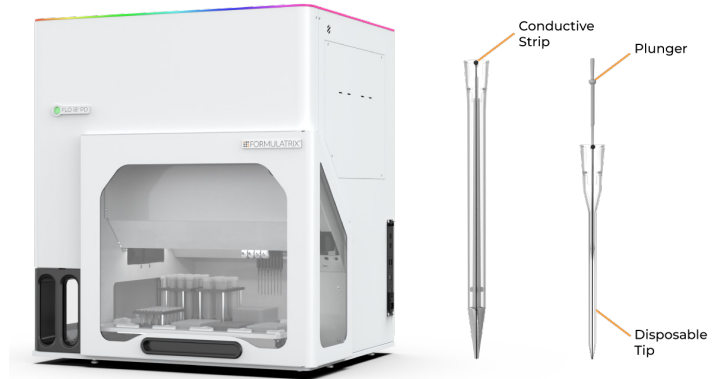


# FLO i8® PD

## 8-Channel Positive Displacement Liquid Handling Solution

The FLO i8 PD Liquid Handler is ideal for optimizing your protocols and bench work, allowing you to focus on the research. Featuring intuitive software, flexible hardware, and positive displacement technology, the FLO i8 PD takes the guesswork out of liquid handling automation.



### Benefits

- **Incredibly easy software** - Automating your protocol is just a few clicks away.
- **Fast** - Speed through your aliquoting transfers with on-the-fly non-contact dispensing.
- **Liquid Class Agnostic** - Forget having to program liquid classes ever again; the positive displacement tips mitigate the effects of viscosity on accuracy.
- **Flexible** - Cover all your bases with channels that are independent in span, Z, and volumetric control, capable of handling all of your tube or plate-based transfers.
- **Precise** - Reduce variability and increase confidence in your workflows with ultra-precise pipetting from 200 nL to 1000 uL.
- **Intelligent** - Automatically sense labware, detect and track liquid levels, and count available pipette tips.
- **Eco-Conscious** - Save on consumables and reduce plastic waste with super precise non-contact dispensing without worrying about cross-contamination.
- **Automation-Friendly** - Open API for seamless integration.



### Save Time and Money on Low Volume Transfers

Reduce reagent consumption and cut costs with non-contact droplet dispensing, enabling precise aliquoting down to 200 nL



### Flexibility with Best-in-Class Precision

Pipette any sample from any labware with unmatched precision using positive displacement, fully independent channels



### Go from Zero to Running Experiments in Minutes

Launch experiments in minutes with a simple, intuitive interface—no complex programming or coding expertise required

## Broad Range of Applications



Tube-to-Plate Reformatting



High-Speed Aliquoting



Hit Picking



Assay Development and Design of Experiment (DoE)



NGS Library Preparation



Enzyme-Linked Immunosorbent Assays (ELISA)



Nucleic Acid and Protein Extraction and Purification



PCR Workflows



Screening Assays (e.g., COVID)



Cell Culture and Bead-Based Assays



Lipid Nanoparticle (LNP) Formulation Screening

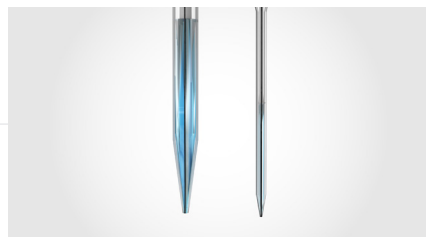


Serial Dilutions

## Technology

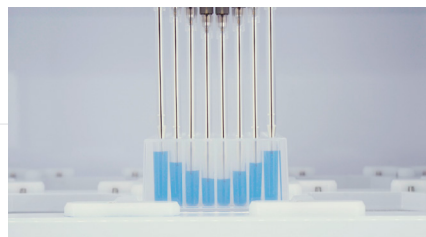
### Positive Displacement Pipetting

No liquid classes. Positive displacement tips allow for using the same pipetting settings for a wide range of liquid properties.



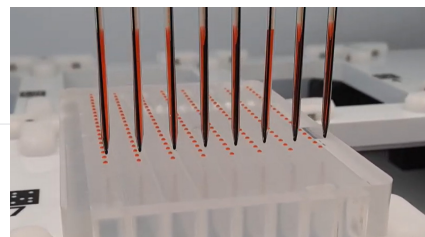
### Liquid Level Detection and Tracking

Patented tip technology enables automatic detection of liquid level and dynamic level tracking while pipetting.



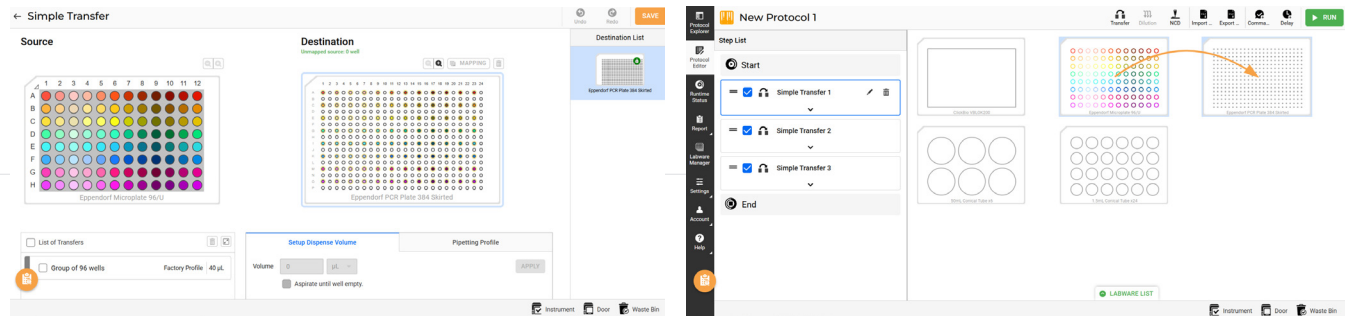
### Non-Contact Dispensing

Rapidly and precisely dispense volumes down to 200 nL. Avoid cross-contamination while saving time and tips.



## Software

The FLO i8 PD features intuitive, easy-to-use software which enables quick and hassle-free setup of protocols in minutes. The system is flexible and designed for both low-throughput and high-throughput applications.



*Visualize workflow progression. Easy and intuitive setup. Drag and drop transfer definition*

## Technical Specifications

### Positive Displacement Pipetting

Channel Configuration: 8 fully-independent positive displacement pipetting channels

Tip Variety: FORMULATRIX® brand disposable FPD50 and FPD1000 Tips

### Liquid Handling and Labware Features

Wet Dispense: 0.5 µL to 50 µL (FPD50), 10 µL to 1000 µL (FPD1000)

Liquid Viscosity Range: Any type of liquid, including solvents

Non-Contact Dispense: 200 nL to 50 µL (FPD50), 1 µL to 1000 µL (FPD1000)

Dispensing Technology: Positive Displacement

Liquid Level Detection: Yes, resistance-based and capacitive-based detection

### User Interface Specifications

Browser: Google Chrome version 110

### Electrical Specifications

110-240 V, 50-60 Hz, 360 W typical (500 W max)

### Operating Requirements

Temperature: 21 °C ± 5 °C (70 °F ± 9 °F)

## Accessories

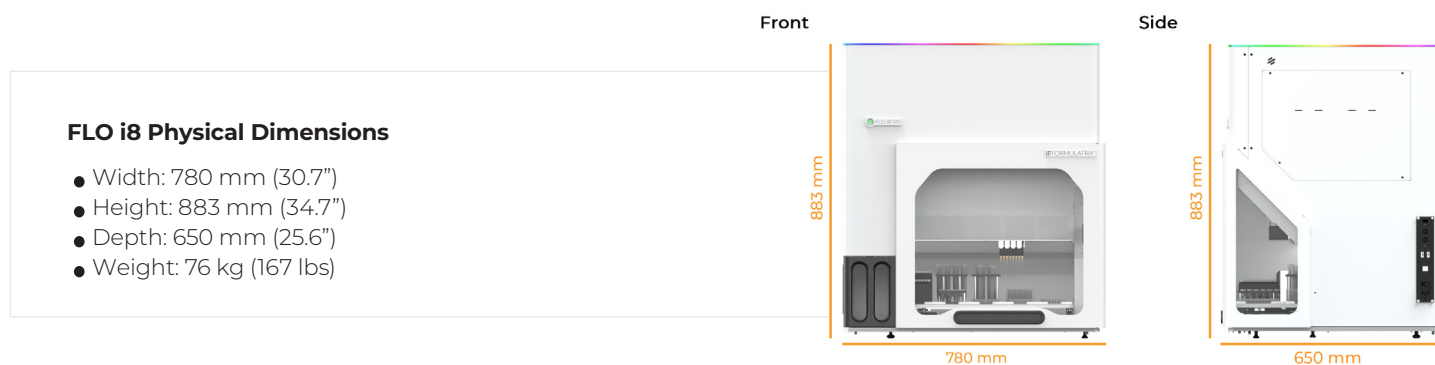
## Part Number

FLO i8® PD Liquid Handling System		839079A
Next-Level Tips - Sold in Packs Containing 10 Boxes of 96 Tips	FPD50 Pack	838451A
	FPD1000 Pack	838452A
Sterilized Next-Level Tips - Sold in Packs Containing 10 Boxes of 96 Tips	Sterilized FPD50 Pack	838453A
	Sterilized FPD1000 Pack	838454A
Autoclave-Safe Tube Racks	1.5 mL Tube Rack (holds 24 tubes)	800004B
	15 mL Tube Rack (holds 16 tubes)	800006B
	50 mL Tube Rack (holds 6 tubes)	800005C

## CV and Accuracy

Contact Dispense	Tip	Volume (µL)	CV	Inaccuracy
	FPD1000	1000	0.5%	0.5%
		250	0.5%	0.5%
		50	1.0%	1.5%
		10	3.5%	1.5%
	FPD50	50	1.0%	1.0%
		5	1.0%	2.0%
		1	3.0%	4.0%
		0.5	5.0%	5.0%
Non-Contact Dispense (NCD)	Tip	Volume (µL)	CV	Inaccuracy
	FPD1000	10	2.0%	1.0%
		5	5.0%	1.0%
	FPD50	1	2.5%	2.5%
		0.2	10.0%	2.5%

Measured photometrically and gravimetrically under optimized conditions using water and dye



For more information about FLO i8, visit us at [www.formulatrix.com](http://www.formulatrix.com) or email [info@formulatrix.com](mailto:info@formulatrix.com)