Formulator Key Features

http://www.formulatrix.com/demosite/liquid-handling/products/formulator/index.html#tabbed-nav=tab2

**Discrete Parallel Metering Technology**

At the core of the Formulator is a patented microfluidic chip that measures and dispenses discrete volumes of liquid. The chip has 96 outputs, each with its own microfluidic valve cluster. Each valve cluster has two micro-diaphragms (200 nL and 2.5 mL) that fill and dispense up to three times per second. By combining multiple dispensing of each micro-diaphragm, the Formulator can dispense any volume down to 200 nL

**Positive Displacement Micro-Diaphragms**

The Formulator's positive displacement micro-diaphragms handle viscous and non-viscous liquids with ease and precision. Select from four viscosity settings (normal, medium, high, and very high) to define a reagent’s liquid class, and the Formulator adjusts the diaphragm fill time to compensate.

**Quick Stock Swap**

Specially designed lid inserts and integrated check valves makes it easy to add or change stock reagents. Adding a stock reagent to the Formulator is simple -- scan the reagent barcode, invert the bottle or Falcon tube, and insert it in any of the reagent inputs on the top of the Formulator. Bottle sensors tell the Formulator where you positioned each reagent.

A few mouse clicks to tell the Formulator to wash the bottle input and the supply line and you’re ready to switch out a reagent bottle.

Currently the Formulator supports 125 mL and 250 mL Nalgene bottles and 50 mL Falcon tubes (others available upon request).

**10, 16, and 34 Reagent Models**

There are three reagent configurations, all identical in size.

Formulator 10:

* 9 inputs for either 250 mL or 125 mL Nalgene bottles, or 50 mL Falcon tubes
* 1 bulk wash input for pure water (can also be used as an reagent)
* Optional secondary wash input for other wash solutions

Formulator 16:

* 15 inputs for either 250 mL or, 125 mL Nalgene bottles, or 50 mL Falcon tubes
* 1 bulk wash input for pure water (can also be used as an reagent)
* Optional secondary wash input for other wash solutions

Formulator 34:

* 30 inputs for 50 mL Falcon tubes
* 3 inputs for either 250 or 125 mL Nalgene bottles, or 50 mL Falcon tubes
* 1 bulk wash input for pure water (can also be used as an reagent)
* Optional secondary wash input for other wash solutions