Formulator Specifications

http://www.formulatrix.com/demosite/liquid-handling/products/formulator/index.htmL#tabbed-nav=tab6

**Physical Dimensions**

* Width: 404 mm (16 in.)
* Depth: 474 mm (18.7 in.)
* Height without bottles: 357 mm (14 in.)
* Height with bottles: 480 mm (19 in.)
* Weight: 16 kg (35lbs)

**Electrical Specifications**

* 110-240 V, 50-60 Hz, 400 W max.

**Minimum Recommended Computer Specifications**

* Windows 7 Home Basic
* 1 open USB port
* Dual-core 1 GHz processor
* 1 GB RAM
* 1 GB hard drive space
* 768 pixels vertical minimum screen resolution

**Waste/Water Bottle Specifications**

**2 L Waste Bottle**

Minimum 2 L bottle for wash solution, larger if possible. Average wash solution consumption is 200 mL/reagent for aqueous solutions. A three-reagent dispense with one medium viscosity reagent uses an average of 500 mL wash solution.

**Pressure/Vacuum Specifications**

The Formulator's microfluidic chip requires pressure and vacuum to actuate the micro-diaphragm pumps. There are three options to supply pressure and vacuum to the system, each with its own requirements:

**Formulatrix Pump Box Option (Parts PB110 & PB230)**

* Connect the system to a pump box specifically designed to provide the required amount of pressure and vacuum.
* Pressure: Self-contained
* Vacuum: Self-contained
* Connectors: Provided
* Electrical Requirements: 110 V, 60 Hz, 290 W (Part PB110) or 230 V, 50 Hz, 290 W (Part PB230)

**Direct-to-Lab Air and Vacuum Option**

* Connect the system directly to your source of pressure and vacuum.
* Pressure: 30 PSI @ 0.15 CFM = 2.0 Bar @ 4.3 LPM
* Vacuum: 22 in Hg @ 0.2 CFM = -750 mBar @ 5.7 LPM
* Connectors: 5/32 in. or 4 mm OD tubing. Other connectors available upon request.

**Venturi Vacuum Option (Part VENT1)**

* Use your pressure source to generate the required vacuum with a Venturi vacuum pump
* Pressure: 80 PSI @ 1 CFM = 5.5 Bar @ 28 LPM
* Vacuum: Self-contained
* Connectors: Quick-disconnect hose coupling, industrial-shape, 1/4 in. NPTF male, ¼ in. coupling (McMaster part 1077T17) and 5/32 in. or 4 mm OD tubing. Other connectors available upon request.