Mantis Specifications

<http://www.formulatrix.com/demosite/liquid-handling/products/mantis/index.html#tabbed-nav=tab7>

**Physical Dimensions**

* Width: 337 mm max (smaller without ACC or reagent holders)
* Height Full Extension: 273 mm (not including pipette tip input)
* Height No Extension: 172 mm (not including pipette tip input)
* Depth: 218 mm (212 mm without reagent holders)
* Weight: Approx. 10 lb.

**Computer Requirements**

* Computer OS :
  + Windows XP Home Edition SP3 32-bit
  + Windows 7 Home Basic 64-bit
  + Windows Vista 32-bit
* One open USB port
* Dual Core 1GHz processor
* 1 GB RAM
* 1 GB of Hard Drive space
* 768 pixels vertical minimum screen resolution

**Electrical Specifications**

* 110-240 V, 50-60 Hz, 50 W typical, 100 W max

This is not really specifications, it’s available chips. I think this necessitates its own tab.

Intro: The Mantis can dispense with a variety of chips. Use the table below to learn about the available chips.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Part Number** | **Material** | **Diaphragm Vol.** | **Min Volume** | **Max Volume** | **Pulses Per Second** | **Dead Volume** | **CV’s** |
| **MCLS6\*** | Silicone | 0.1 μL, 0.5 μL | 0.1 μL | ∞ | @ 0.1 μL= 10, At 0.5 μL = 7 | 6 μL | <3% at 0.1 μL |
| **MCLS6\*** | Silicone | 1 μL, 5 μL | 1 μL | ∞ | @ 1 μL= 10, At 5 μL = 4 | 15 μL | <3% at 1 μL |
| **MCHP2 (Solvent Compatible)** | Perfluoroelastomer | 1 μL, 5 μL | 1 μL | ∞ | @ 1 μL= 5, At 5 μL = 4 | 15 μL | <5% at 1 μL |
| **MCLP2 (Solvent Compatible)** | Perfluoroelastomer | 0.1 μL, 0.5 μL | 0.1 μL | ∞ | @ 0.1 μL= 3, At 0.5 μL = 2 | 6 μL | <5% at 0.1 μL |

\* These chips are also available in molecular biology grade. See below.

### Molecular Biology Grade Chips

Formulatrix follows manufacturing processes certified to produce molecular biology grade Mantis chips free of detectable DNA, DNase, RNase and Protease. Low volume and high volume chips are available.