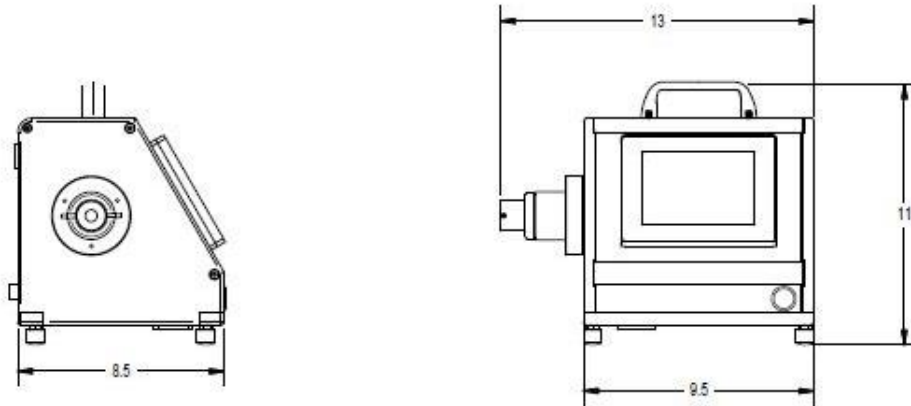


# ***i-FILL*® Micro Precision Liquid Dispensing Pump (µL to mL) Technical Data Sheet**

## **SPECIFICATIONS:**



**PART NUMBER:** M2-00800

**DIMENSIONS (H x W x D):** 10.5" x 9.5" x 9" / 26.67cm x 24.1cm x 22.9cm

**NET WEIGHT:** 19.5 lbs. / 8.8 kg

**HMI TOUCH SCREEN:** SCHNEIDER Magelis 3" x 5" Color Panel

**COMMUNICATION:** USB; ETHERNET & RS232

UTILITIES	CONNECTION	REQUIREMENTS
ELECTRICAL POWER	NEMA 5-15	120V / 10A / 60Hz

**OPERATING CONDITIONS:** 0-50°C, 5-85% RH, Non-condensing

**STORAGE CONDITIONS:** -45-65°C

**FILL VOLUME RANGE:** 25mcl to 1ml with 1ml Kit; 1ml to 20ml with 10ml Kit

Part Description	Part Number	Piston	Piston Material	Maximum Index Position Setting
1mL Pump Kit	M2-00445	M1-01379, 1mL Piston	Acetal	18 mm
10mL Pump Kit	M2-00457	M1-01380, 10mL Piston	Acetal	46 mm

### **Single-Use Fluid Path Kits: Product Contact Materials**

**PUMP HEAD:** Injection Molded, Material: Zylar (Copolymerized styrene, butadiene and methyl methacrylate)

**DIAPHRAGM:** FDA Red Silicone

**TUBING:** 1/8" ID x 1/4" OD, Platinum-Cured Silicone

**CHECK VALVE:** White & Clear MABS W/Silicone Diaphragm

**NOZZLE:** Polypropylene

**TYPICAL DISPENSING SETTINGS:**

(Note that settings below are approximate. Index Position and Index Speed may require additional adjustment to achieve exact fill volumes and/or flow rates)

Volume Targets for Pump Settings: Index Speed - 3000, Acceleration/Deceleration-150		
Target Fill Volume	1mL Pump Kit	10mL Pump Kit
1 mL	15.2	6.475
5 mL	Use 10mLKit	17.175
10 mL	Use 10mL Kit	27.845
15mL	Use 10mL Kit	36.895

**TYPICAL FLOW DATA:**

1mL Kit - M2-00445			10mL Kit - M2-00457		
Index Speed	Index Position	Flow Rate (mL/min)	Index Speed	Index Position	Flow Rate (mL/min)
4000	18	14.3	4000	46	148
	14	9.9		40	139
	10	5.4		30	105
	6	2.6		20	74
	4	1.1		10	29
	2.5	0.1		5	6
1000	18	14.3	1000	46	142
	14	9.9		40	126
	10	6.2		30	104
	6	2.5		20	76
	4	0.7		10	29
	2.5	0.1		5	6
500	18	11.5	500	46	92
	14	8.9		40	75
	10	6		30	85
	6	2.7		20	58
	4	1.1		10	28
	2.5	0.1		5	6
100	18	3.4	100	46	22
	14	2.7		40	22
	10	2.2		30	20
	6	1.2		20	15
	4	0.6		10	9
	2.5	0.1		5	3

**Additional Notes:**

\*All pump kits are Lot# controlled with Lot# controlled component parts. Vendor documentation is kept on file pertaining to animal / non-animal origin of component parts. Kits are double-bagged and individually labeled with Part #, Lot #, and Gamma Irradiation label. Kits are irradiated within a range of 25 – 44 kGy by an approved supplier. Irradiation Process run records are maintained for each Lot #.

\*All settings were tested with water at about room temperature (75°F, 23.8°C). All settings are approximate.

**MAINTENANCE:** The i-FILL Micro is a self-contained unit that requires little to no maintenance. Users should occasionally wipe the unit with a soft, clean cloth. The touch screen control is protected by a cover that should protect it from the regular use of an appropriate stylus. Maintenance should only be performed by an authorized Intellitech technician. Please call 1-866-434-5548 for technical support or service regarding the proper care of this unit.

**SAFETY AND COMPLIANCE:** This machine was built to meet, at a minimum, the requirements of the ANSI /PMMI B155.1 Safety Requirements for the Construction, Care and Use of Packaging and Packaging-Related Converting Machinery. Other voluntary standards are also referenced such as NFPA 79 (electrical), ANSI B11.19 (safeguarding), ANSI Z535.4 (warnings) and ANSI Z535.6 (instruction manuals), OSHA Standard 29 (lockout/tagout). The i-FILL is compliant with the EU Directive on Electromagnetic Compatibility (EMCD 2014/30/EU) in accordance with Article 14 Annexes II and III.

**WARRANTY AND SUPPORT:** For Warranty and/or Factory Repair request, contact Customer Service at 1-866-434-5548 with Unit Model No. and Serial No. and a description of the problem. The Unit Model and Serial No. information can be found on the Intellitech Equipment Identification tag mounted on the unit.