

# Mighty-Mini Pump

Economical Positive Displacement Pump

 **Instrument  
Solutions**  
*Technology for Your Success!*



*The Mighty-Mini delivers precise liquid metering and dispensing.*

- *Compact*
- *Wide, Accuarate Flow Range*
- *Easy Maintenance*
- *Economically Priced*

## **High Performance at a Low Cost**

The Mighty-Mini pump is specifically designed to meet the requirements of precise metering & dispensing applications at an economical price. Standard features include digital keypad control and RS-232 interface.

## **Easy Maintenance**

All Scientific Systems, Inc. pumps are known for fast, easy maintenance. Check valves, seals, piston & electronics are readily accessible, and replaceable within minutes.

## **Wide, Accurate Flow & Pressure Range**

The Mighty-Mini is a single-head, positive displacement (piston) pump, with stepper motor drive. The unit delivers precise flow rates up to 5.000 ml/min. Flow accuracy is consistent with varying back pressure, and the pump provides 500 p.s.i. across the flow range.

## **The Best Performance for the Investment**

Superior to Gear, Diaphragm and Peristaltic pumps, the Mighty-Mini utilizes HPLC pump technology, providing greater performance at an equivalent cost to lower technology products.

***All Pumps carry a 3-Year Warranty.***

PSS1010-RevC-120613

# Mighty-Mini Pump

## Economical Positive Displacement Pump

### Mighty-Mini Features

- Single-Head Design with Stepper Motor Drive and Electronic Fast Refill
- Sapphire Piston and High Performance UHMW, HPLC-grade Seal
- Ruby Ball / Sapphire Seat Check Valves
- External 24-Volt Power Supply with Universal Input: 90 – 260 VAC / 50 – 60 Hz
- Positive Displacement Provides Consistent Flow Rates with Varying Back Pressure
- All PEEK (Plastic) Fluid Path (except where indicated)
- Isolation Cavity behind Pump Head with Vent/Weep Holes; can be configured for Automatic Piston Wash – consult factory
- Available in Kit-Form for OEM Applications
- Interactive Digital Keypad, RS-232 PC Control & Monitoring, Remote Run/Stop
- Fluid Path Isolated from Electrical Components
- EZChrom and other PC drivers available; Multiple Unit Control (up to 4 Mighty-Mini pumps) with SCU Handheld Controller – see SCU data sheet



24-Volt Power Supply with Universal Input



### Mighty-Mini Pump Specifications

<b>Flow Rates</b> .....	0.01 - 5 mL/min.
<b>Pressure</b> .....	500 psi over flow range
<b>Flow Accuracy</b> .....	≤ 5% of set point @ > 100 psi
<b>Pulsation</b> .....	± 10% @ 2.5 mL/min. and 500 psi
<b>Pressure Accuracy</b> .....	± 1% of full scale pressure
<b>Dimensions</b> .....	5" H x 3" W x 10" D (12.7 x 7.6 x 25.4 cm)
<b>Weight</b> .....	3 lbs. (1.36 kg)

### Control Interface

#### Interactive Keypad

Set Flow Rate, Run/Stop, Alarms



Mighty-Mini's Keypad

**RS-232 Serial Interface: EZ-Chrom** or Other PC Control Protocols available in manual or consult factory. SCU Handheld Controller for control of up to four (4) Mighty-Mini Pumps.



SCU 460 Keypad

### Ordering Information

DESCRIPTION	PART No.
MIGHTY-MINI PUMP 0.01–5 mL/min, PEEK	120936

### Options

DESCRIPTION	PART No.
SCU 460 SYSTEM GRADIENT CONTROL UNIT	WID2K2021101

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**Scientific Systems, Inc.**  
Designed from Experience. Built for The Future.



**Instrument Solutions**

Technology for Your Success!

De Liesbosch 50 - 3439 LC Nieuwegein (NLD)  
Tel: +31(0)88 4678 786 / Fax: +31(0)88 4678799  
www.instrument-solutions.com

info@instrument-solutions.com