

MX Class

Reciprocating Pump

High Performance Isocratic Pumps at an Affordable Price

The economical **MX Class** consists of single-headed, positive displacement piston pumps incorporating additional features for challenging applications. With pressure capability up to 5,000 psi, the MX Class can be used in both analytical and small-scale preparative HPLC separations.

Further applications include demanding metering and dispensing, as well as Sample Injection, Infusion, or Cone Wash for Mass Spectrometers. Standard fluid path material is Stainless Steel.

Features include pressure monitoring with automatic pressure compensation, Pulse Dampener, integrated Prime-Purge Valve, interactive keypad control, and complete PC control and status through RS-232C, micro-USB, and Ethernet serial communications. Requiring minimal bench space for the performance, the MX Class will easily integrate into most workspaces.



Drip Tray & Leak Sensor

FLOW RATE	PRESSURE	FLUID PATH	CONTROL
10 mL/min	5,000 psi	Stainless Steel	RS-232, Micro USB, Ethernet, Run/Stop, Analog (0-10 V, 4-20 mA)

MX Class Specifications

Flow Rate Range	0.01 – 10.00 mL/min
Flow Rate Increment	0.01 mL/min
Flow Rate Accuracy*	±2% (1.5 – 10.0 mL/min; 80:20 Water/IPA; 1,000 psi)
Flow Reproducibility	1%RSD (1.5 – 10.0 mL/min; 80:20 Water/IPA; 1,000 psi)
Maximum Delivery Pressure	5,000 psi
Pressure Accuracy	±50 psi
Pulsation	≤3.0% @ 1 mL/min and 80:20 Water/IPA; 1,000 psi
Piston Displacement	25.1 µL
Piston Wash	Self-flushing pump heads – continuous wash without auxiliary pump
Wetted Materials	316 Stainless Steel, Synthetic Ruby, Sapphire, UHMWPE, PTFE, ETFE, PFA, PEEK
Dimensions (H x W x D)	6.4" x 7.0" x 16.0" (16.1 x 17.8 x 40.6 cm)
Weight	14.2 lbs (6.4 kg)
Power	100 – 240 Vac (±10%), 50 – 60 Hz, 45 W
Front Panel	5-digit LED to monitor flow rate, pressure, and indicate parameters and alarms. Run/Stop, Prime, and menu keys, seven status indicators, Increase/Decrease displayed parameters.
Communication	RS-232, micro-USB, LAN (serial communications) Run/Stop TTL, Analog flow control (0–10 V, 4–20 mA)
Viscosity**	0.5 – 3.5 cP
Liquid Temperature	0 – 82 °C
Environment	Indoor use only (Pollution degree 2)
Altitude	Up to 2000 m (6500 ft)
Ambient Temperature	10 – 30 °C
Humidity	20 – 90% relative humidity

*Flow Rate is dependent on solvent selection and operating pressure

**Range of fluid viscosities where published flow accuracy is maintained

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

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Teledyne SSI is continually improving its products and reserves the right to change product specifications, replacement parts, schematics, and instructions without notice.

