

GENERAL DESCRIPTION

The Masterflex® L/S® portable sampling pump is designed for the ultimate in portability and versatility. Operate up to four hours on the self-contained 12 VDC rechargeable battery. Charge the internal battery with the included AC power supply or a DC voltage source of lower voltaic potential than the battery itself. The variable-speed drive has a top speed of 400 rpm, allowing you to adjust the flow rate to the needs of your application. Pump features a single-turn potentiometer for speed control and three-position power/reversing switch.



MARKETS & APPLICATIONS

Ideal for rugged or remote pumping applications such as ponds and lake sampling in the environmental industry or in agriculture for runoff sampling. Also suitable for effluent testing in process and manufacturing plants, for environmental testing labs and other applications requiring a portable sampling pump.

FEATURES & BENEFITS

- Sample depths down to 7.9 meters (26 feet)
- Rechargeable battery is ideal for field applications
- Floats up to 30 minutes if dropped in water
- IP54-rated control panel protects against inclement weather and splashing water
- High-visibility housing for easy recognition and recovery in the field
- Pump tubing allows sampling from wells and access points less than one inch in diameter
- Can be used in the field for sampling or in the plant as a portable pump

Flow Rates*

Tubing cross sections	L/S Precision pump tubing						L/S High-Performance Precision pump tubing	
								
	L/S 13	L/S 14	L/S 16	L/S 25	L/S 17	L/S 18	L/S 15	L/S 24
Flow range @ 70 to 400 rpm	4.2 to 24	15 to 84	56 to 320	120 to 680	Not recommended		120 to 680	200 to 1100

*Included Easy-Load pump head MFLX07514-12 accepts tubing sizes L/S 15 and L/S 24 only.

ORDERING INFORMATION

Flow Rate	Accepts tubing sizes	rpm	Power	Model Number
120 to 1100 mL/min with included L/S Easy-Load 07514-12 pump head	L/S 15, L/S 24	70 to 400	12 VDC or 115/230 VAC	MFLX07571-02

Pump Accessories:

Model Number	Description
MFLX07570-04	Tubing weight, flow-through stainless steel, fits tubing sizes L/S® 15, 24, 25
MFLX96410-15	Masterflex® pump tubing, L/S® 15 silicone, platinum-cured; pack of 7.6 m (25 ft)
MFLX96410-24	Masterflex pump tubing, L/S 24 silicone, platinum-cured; pack of 7.6 m (25 ft)
MFLX06509-15	Masterflex pump tubing, L/S 15 Tygon E-Lab; pack of 15.2 m (50 ft)
MFLX06509-24	Masterflex pump tubing, L/S 24 Tygon E-Lab; pack of 15.2 m (50 ft)
MFLX07514-10	L/S Easy-Load pump head, for use with Precision tubing sizes L/S 13, 14, 16, 25

SPECIFICATIONS

Specifications for L/S Portable Sampling Pump	
Performance specifications	
Flow capacity	4.2 to 1100 mL/min (0.06 to 17.4 GPH)
rpm	70 to 400
Number of heads accepted	1
Reversible	Yes
External Control	Input/Output Not applicable
Electrical specifications	
Voltage/Frequency VAC (Hz) [†]	115 / 230 (50/60)
Current	0.25 A / 0.125 A
Motor type	Permanent-magnet DC
Motor size	37 W (1/20 hp)
Speed regulation (repeatability)	±5% (±5%)
Physical specifications	
Housing materials	HDPE, anodized aluminum, stainless steel, and polyester
IP rating	IP54
Operating temperature	0° to 50°C (32° to 122°F)
Storage temperature	-20 to 65°C (-4° to 149°F)
Humidity limits	10% to 90% noncondensing
Dimensions (L x W x H)	38 x 31 x 24 cm (15" x 12 1/8" x 9 1/2")
Shipping weight	8.1 kg (17.8 lb.)

[†]Also runs on internal battery or 12 VDC external source.

INCLUDED

This sampling system comes complete with the Masterflex® L/S® Easy-Load® pump head model MFLX07514-12 for use with L/S High-Performance Precision pump tubing and AC adapter with 3.7-m (12-ft) cable. The pump also accommodates other L/S Easy-Load pump heads and all L/S Standard pump heads.

