Masterflex® L/S® Portable Sampling Pump

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 recovery
- Can be used in the field for sampling or in the plant as a portable pump

The Masterflex sampler is designed for the ultimate in portability and versatility. Operate up to four hours on the self-contained 12 VDC rechargeable battery, or indefinitely from any AC line or 12 VDC power supply. Charge the internal battery from an 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.

This sampling system comes complete with L/S Easy-Load® pump head model 07514-12 for use with L/S High-Performance Precision pump tubing sizes L/S 15 and L/S 24 (order tubing separately). The pump also accommodates other L/S Easy-Load pump heads and all L/S Standard pump heads.
Specifications for L/S Portable Sampling Drive

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)
- Motor/speed control type: Solid state
- Speed regulation (repeatability): ±5% (±5%)
- Soft start/Electronic brake: No

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 121⁄8” x 91⁄2”)
- Shipping weight: 8.1 kg (17.8 lb)

Flow Rates*
<table>
<thead>
<tr>
<th>Tubing cross sections</th>
<th>L/S 13</th>
<th>L/S 14</th>
<th>L/S 16</th>
<th>L/S 25</th>
<th>L/S 17</th>
<th>L/S 18</th>
<th>L/S 15</th>
<th>L/S 24</th>
</tr>
</thead>
<tbody>
<tr>
<td>Flow range @ 70 to 400 rpm</td>
<td>4.2 to 24</td>
<td>15 to 84</td>
<td>56 to 320</td>
<td>120 to 680</td>
<td>Not recommended</td>
<td>120 to 680</td>
<td>200 to 1100</td>
<td></td>
</tr>
</tbody>
</table>

*Also runs on internal battery or 12 VDC external source.

Ordering Information

**Flow Rates**

<table>
<thead>
<tr>
<th>Flow rate</th>
<th>Accepts tubing sizes</th>
<th>rpm</th>
<th>Power</th>
<th>Catalog number</th>
</tr>
</thead>
<tbody>
<tr>
<td>120 to 1100 mL/min with included pump head</td>
<td>L/S 15, 24</td>
<td>70 to 400</td>
<td>12 VDC or 115/230 VAC</td>
<td><strong>MK-07571-02</strong></td>
</tr>
</tbody>
</table>

**MK-07570-04** Tubing weight, flow-through stainless steel, fits tubing sizes L/S 15, 24, 25

**MK-96400-15** Masterflex pump tubing, L/S 15 silicone, peroxide-cured; pack of 7.6 m (25 ft)

**MK-96400-24** Masterflex pump tubing, L/S 24 silicone, peroxide-cured; pack of 7.6 m (25 ft)

**MK-06509-15** Masterflex pump tubing, L/S 15 Tygon E-Lab; pack of 15.2 m (50 ft)

**MK-06509-24** Masterflex pump tubing, L/S 24 Tygon E-Lab; pack of 15.2 m (50 ft)

**MK-07514-10** L/S Easy-Load pump head, for use with Precision tubing sizes L/S 13, 14, 16, 25