



MASTERFLEX[®]

L/S[®] FIXED-SPEED PUMPS

IDEAL FOR VERY LOW-FLOW APPLICATIONS

FEATURES AND BENEFITS

- Deliver flow rates from 0.06 to 290 mL/min
- Compact drives feature durable epoxy-coated steel housings
- Operate 24 hours per day—drives feature continuous-duty brushless AC motors
- On/off switch provides easy, safe control of motor
- Thermally protected motor automatically shuts down in overheat conditions



Fixed-Speed Pump
shown with an
Easy-Load[®] II
pump head



Flow Rates, mL/min

| RPM | Precision pump tubing | | | | | | 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 | L/S 35 | L/S 36 |
| | Easy-Load® II (thin wall) | | | | | | Easy-Load® II (thick wall) | | | |
| 1 | 0.06 | 0.021 | 0.08 | 1.7 | 2.8 | 3.8 | 1.7 | 2.8 | 3.8 | 4.8 |
| 6 | 0.36 | 1.26 | 4.8 | 10.2 | 16.8 | 22.8 | 10.2 | 16.8 | 22.8 | 28.8 |
| 30 | 1.8 | 6.3 | 24 | 51 | 84 | 114 | 51 | 84 | 114 | 144 |
| 60 | 3.6 | 12.6 | 48 | 102 | 168 | 228 | 107 | 168 | 290 | 288 |

Note: Flow rates were calculated under the following conditions: zero psig at inlet, 0.5 psig at outlet; water temperature at 22°C (72°F).

Specifications & Ordering Information

| CATALOG NUMBER | MK-77712-67 | MK-77712-68 | MK-77712-69 | MK-77712-70 | MK-77712-71 | MK-77712-72 | MK-77712-73 | MK-77712-74 |
|-----------------------------------|--|-------------|---------------------------|-------------|---------------------------|-------------|---------------------------|-------------|
| Includes Pump Head | Easy-Load® II (thin wall) | | Easy-Load® II (thin wall) | | Easy-Load® II (thin wall) | | Easy-Load® II (thin wall) | |
| Max Number Of Pump Heads | 2 | | 2 | | 2 | | 1 | |
| PERFORMANCE | | | | | | | | |
| RPM | 1 | | 6 | | 30 | | 60 | |
| ELECTRICAL SPECIFICATIONS | | | | | | | | |
| Voltage (AC) 60/50 (Hz) | 115 | 230 | 115 | 230 | 115 | 230 | 115 | 230 |
| Fuse Rating | 0.3A | 0.2A | 0.5A | 0.2A | 0.5A | 0.4A | 0.9A | 0.4A |
| Current | 0.8A | 0.4A | 0.8A | 0.4A | 0.8A | 0.4A | 0.8A | 0.4A |
| Motor Type | AC, shaded pole | | | | | | | |
| Speed Regulation (Repeatability) | ±10% | | | | | | | |
| PHYSICAL SPECIFICATIONS | | | | | | | | |
| IP Rating | IP22 | | | | | | | |
| Agency Approvals | UL, cUL, CE (230 V units) | | | | | | | |
| Operating Temperature | 0 to 40°C (32 to 104°F) | | | | | | | |
| Storage Temperature | -25 to 65°C (-13 to 149°F) | | | | | | | |
| Dimensions Controller (L x W X H) | 13.4 cm x 11.8 cm x 15.2 cm (5 3/8" x 4 5/8" x 6") | | | | | | | |
| Shipping Weight (Drive Only) | 4.0 kg (9.0 lb) | | | | | | | |

Specifications & Ordering Information (continued)

| CATALOG NUMBER | MK-77712-76 | MK-77712-77 | MK-77712-78 | MK-77712-79 | MK-77712-80 | MK-77712-81 | MK-77712-82 | MK-77712-83 |
|-----------------------------------|--|-------------|----------------------------|-------------|----------------------------|-------------|----------------------------|-------------|
| Includes Pump Head | Easy-Load® II (thick wall) | | Easy-Load® II (thick wall) | | Easy-Load® II (thick wall) | | Easy-Load® II (thick wall) | |
| Max Number Of Pump Heads | 2 | | 2 | | 2 | | 1 | |
| PERFORMANCE | | | | | | | | |
| RPM | 1 | | 6 | | 30 | | 60 | |
| ELECTRICAL SPECIFICATIONS | | | | | | | | |
| Voltage (AC) 60/50 (Hz) | 115 | 230 | 115 | 230 | 115 | 230 | 115 | 230 |
| Fuse Rating | 0.3A | 0.2A | 0.5A | 0.2A | 0.5A | 0.4A | 0.9A | 0.4A |
| Current | 0.8A | 0.4A | 0.8A | 0.4A | 0.8A | 0.4A | 0.8A | 0.4A |
| Motor Type | AC, shaded pole | | | | | | | |
| Speed Regulation (Repeatability) | ±10% (±10%) | | | | | | | |
| PHYSICAL SPECIFICATIONS | | | | | | | | |
| IP rating | IP22 | | | | | | | |
| Agency Approvals | UL, cUL, CE (230 V units) | | | | | | | |
| Operating Temperature | 0 to 40°C (32 to 104°F) | | | | | | | |
| Storage Temperature | -25 to 65°C (-13 to 149°F) | | | | | | | |
| Dimensions Controller (L x W X H) | 13.4 cm x 11.8 cm x 15.2 cm (5 3/8" x 4 5/8" x 6") | | | | | | | |
| Shipping Weight (Drive Only) | 4.0 kg (9.0 lb) | | | | | | | |

For more information:
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 **Cole-Parmer®**
 Delivering Solutions You Trust