

## L/S® VARIABLE-SPEED ECONOMY DRIVES

### FEATURES/BENEFITS

- ▶ Perfect upgrade from a fixed-speed drive to a variable-speed system
- ▶ Deliver flow rates from 0.42 to 2900 mL/min with Masterflex® L/S pump heads
- ▶ Deliver flow rates from 0.0035 to 1700 mL/min with cartridge pump heads
- ▶ Wide flow control range (30:1 turndown)
- ▶ Long-lasting, stackable steel housing
- ▶ Ideal for low-flow metering or general fluid transfer
- ▶ Safe, reliable continuous-duty motor
- ▶ Unidirectional operation
- ▶ Multichannel pumping

### DRIVE CONTROLS

- ▶ All manual controls are on the front panel
- ▶ Single-turn potentiometer for speed control
- ▶ On/off switch, green power-on indicator

### SETUP

1. Mount pump head and load tubing.
2. Turn pump on.
3. Adjust flow rate with potentiometer.

### SELECTION CRITERIA

1. Motor rpm/flow rate
2. Voltage required.
3. Pump heads accepted.

Order pump heads and tubing separately.

### SPEED CONTROL/CIRCUITRY

- ▶ Single-turn potentiometer
- ▶ Solid-state circuit
- ▶ Soft-start for no power surges
- ▶ Speed not affected by minimum variations in line voltage or frequency
- ▶ Switch: ON/OFF
- ▶ Meets or exceeds UL, CSA, EN, and selected IEC limits



L/S variable-speed console drive 07554-90 with L/S Easy-Load pump head 07518-12

### MOTOR SPECIFICATIONS

- ▶ Permanently lubricated
- ▶ Designed around a 90 or 180 VDC motor

### PUMP HEADS ACCEPTED

- ▶ Drive accepts nine different pump heads:
 

Standard	High-Performance
Easy-Load® 3	PTFE-Tubing
Easy-Load II	Multichannel
Easy-Load	Multichannel Cartridge
PTFE-Diaphragm	

### ORDERING INFORMATION

Catalog number	Flow rate (mL/min)	Power (50/60 Hz)
HL-07554-90	28 to 600	90 to 130 VAC
HL-07554-95	7 to 200	180 to 260 VAC
HL-07554-80	7 to 200	90 to 130 VAC
HL-07554-85	7 to 200	180 to 260 VAC

### ACCESSORIES

HL-17050-01 NIST-traceable calibration for peristaltic pump drive.



## L/S PUMP TUBING FLOW RATE INFORMATION (mL/MIN)

Order Masterflex L/S pump tubing separately on pages 68-73.

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	L/S 35	L/S 36
Flow range @ 20 to 600 rpm	1.2 to 36	4.2 to 130	16 to 480	34 to 1000	56 to 1700	76 to 2300	34 to 1000	56 to 1700	76 to 2300	96 to 2900
Flow range @ 7 to 200 rpm	0.42 to 12	1.4 to 43	5.6 to 160	12 to 330	20 to 570	27 to 770	12 to 330 (13 to 370)	20 to 570 (21 to 600)	27 to 770 (30 to 870)	34 to 970 (41 to 1130)

Note: Flow rates in parentheses can be obtained only with L/S High-Performance pump heads.



**Handing ApS™**  
 Nordkranvej 5-9, Vassingerød  
 DK - 3540 Lyngby  
 Tel.: +45 48160166  
 www.handing.dk

## Masterflex 7554-95

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Alle mål i mm.  
 All measures in mm.

Lager nr. /TN

**P332**

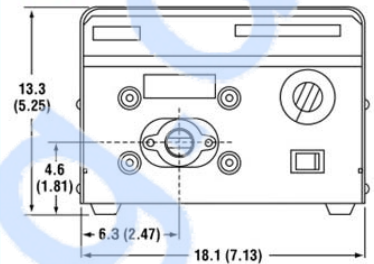
### SPECIFICATIONS for L/S Variable-Speed Economy Drives

Catalog number	HL-07554-90	HL-07554-95	HL-07554-92	HL-07554-95
<b>Performance Specifications</b>				
Flow capacity	1.2 to 2900 mL/min (0 to 46 GPH)		0.42 to 900 mL/min (0 to 15 GPH)	
rpm	20 to 600		7 to 260	
Number of heads accepted	1		2	
Maximum torque	Starting	191 N-cm (270 oz-in)		581 N-cm (840 oz-in)
	Running	64 N-cm (90 oz-in)		127 N-cm (180 oz-in)
Reversible	No			
External control – Input	Not applicable			
External control – Output	Not applicable			
<b>Electrical Specifications</b>				
Voltage/frequency VAC (50/60 Hz)	90 to 130	180 to 260	90 to 130	180 to 260
Current	1.5 A	0.8 A	1.5 A	0.8 A
Fuse rating	2.0 A / 250 V	1.0 A / 250 V	2.0 A / 250 V	1.0 A / 250 V
Motor type	Continuous-duty, permanent magnet DC			
Motor size	37 W (1/2 hp)			
Motor/speed control type	Single-turn potentiometer, solid-state			
Speed regulation (repeatability)	±5% (±3%)			
Soft start/Electronic brake	Yes/No			
<b>Physical Specifications</b>				
Housing materials	Painted steel			
IP rating	IP22†			
Agency listings	UL, cUL, CE			
Operating temperature	0 to 40°C (32 to 104°F)			
Storage temperature	-25 to 65°C (-13 to 149°F)			
Dimensions (L x W x H)	22.9 x 18.1 x 13.3 cm (9" x 7 1/8" x 5 1/4")			
Shipping weight	3.7 kg (8 lb)			

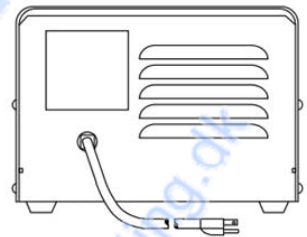
†See page 194 for an explanation of IP ratings.

Dimensional Drawings cm (in.)  
07554-Series

FRONT



BACK



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