

L/S® VARIABLE-SPEED Console 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
- ▶ CW/OFF/CCW 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 07555-05 with L/S Easy-Load pump head 77200-60

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	

NOTES

Use drives 07555-00 and 07555-05 with High-Performance, Multichannel, and Cartridge pump heads only when loaded with C-FLEX® or silicone tubing. Do not use these 600-rpm drives with the PTFE-tubing or PTFE-diaphragm pump heads.

ISO9001:2008
CERTIFIED SUPPLIER

cULus

CE

2 year
warranty

ORDERING INFORMATION

Catalog number	rpm	Power (50/60 Hz)
EW-07555-00	20 to 600	90 to 130 VAC
EW-07555-05		180 to 260 VAC
EW-07555-10	7 to 200	90 to 130 VAC
EW-07555-15		180 to 260 VAC

ACCESSORIES

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

SEE PAGES 108-117

For L/S drive only.



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)

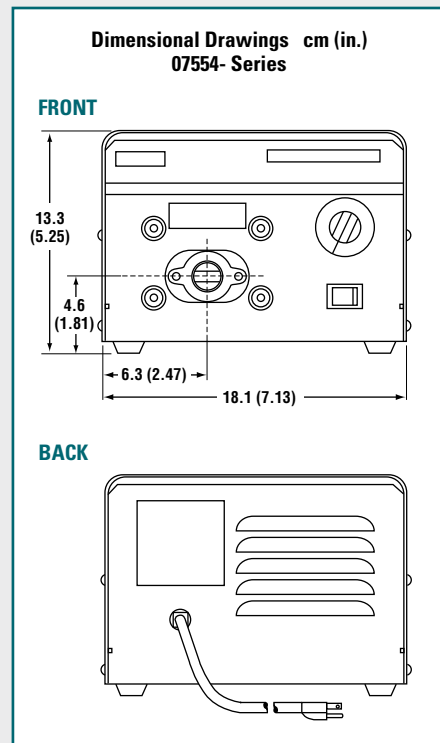
Note: Flow rates in parentheses can be obtained only with L/S High-Performance pump heads.



SPECIFICATIONS for L/S Variable-Speed Console Drives

Catalog number	EW-07555-00	EW-07555-05	EW-07555-10	EW-07555-15
Performance Specifications				
Flow capacity	1.2 to 2900 mL/min (0 to 46 GPH)		0.42 to 970 mL/min (0 to 15 GPH)	
rpm	20 to 600		7 to 200	
Number of heads accepted	1		2	
Maximum torque	Starting	191 N-cm (270 oz-in)	381 N-cm (540 oz-in)	
	Running	64 N-cm (90 oz-in)	127 N-cm (180 oz-in)	
Reversible	Yes			
External control – Input	Start/Stop			
External control – Output	Not applicable			
Electrical Specifications				
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 (½ hp)			
Motor/speed control type	Single-turn potentiometer, solid-state			
Speed regulation (repeatability)	±5% (±3%)			
Soft start/Electronic brake	Yes/No			
Physical Specifications				
Housing materials	Painted steel and ABS Plastic			
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)	23.0 x 18.3 x 13.4 cm (9" x 7½" x 5¼")			
Shipping weight	3.7 kg (8 lb)			

Note: Drives 07555-00 and -05 are not recommended for use with High-Performance pump head, PTFE-tubing and PTFE-diaphragm pump heads.



24-HOUR PROTECTION

The Liqui-Sense® emergency cut-off system protects you from pumping problems 24 hours a day. Detection of a leak or a high/low liquid level in a tank signals the Liqui-Sense controller to turn off your pump and turn on a back-up. Please see pages 160–161 for a complete description.



MORE INFO

Request your **FREE** Masterflex Tubing Test Kit to test compatibility of your chemicals against different tubing formulations. Request item HL-00101-10.

Call today!



STANDARD 0.42 to 2900 mL/min pages 40–41		HIGH-PERFORMANCE 12 to 3400 mL/min pages 48–49		MULTICHANNEL CARTRIDGE 3- or 4-roller; up to 8 channels 0.33 to 1700 mL/min pages 56–57	
EASY-LOAD® 3 0.42 to 2900 mL/min pages 42–43		PTFE-TUBING 0.42 to 65 mL/min pages 50–51		6- or 8-roller; up to 12 channels 0.0035 to 350 mL/min pages 58–59	
EASY-LOAD® II 0.42 to 2900 mL/min pages 44–45		MULTICHANNEL 4- or 8-channel for microbore tubing 0.02 to 200 mL/min pages 52–53		PTFE-DIAPHRAGM 10 to 800 mL/min pages 60–61	
EASY-LOAD® 0.42 to 2300 mL/min pages 46–47		2-, 4-, or 8-channel for L/S® Precision tubing 0.32 to 2300 mL/min pages 54–55			

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