

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

- Mount pump head and load tubing.
- Turn pump on.
- Adjust flow rate with potentiometer.

SELECTION CRITERIA

- Motor rpm/flow rate.
- Voltage required.
- 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

UL US

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)		23.3 x 18.1 x 13.3 cm			
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.



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



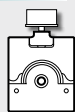
EASY-LOAD® 3

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

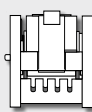
EASY-LOAD® II

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®

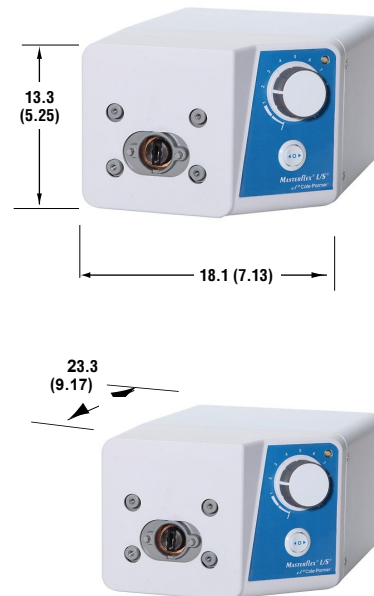
0.42 to 2300 mL/min
pages 46–47



2-, 4-, or 8-channel
for L/S® Precision
tubing
0.32 to 2300 mL/min
pages 54–55

Dimensional Drawings cm (in.) 07554- Series

FRONT



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!



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