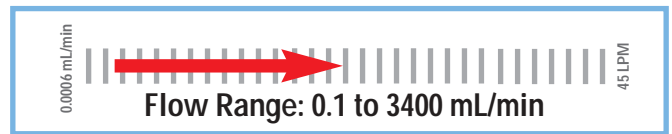


L/S® Variable-Speed Digital Drives

Digital display and programmed calibration deliver high accuracy for critical metering and dispensing applications

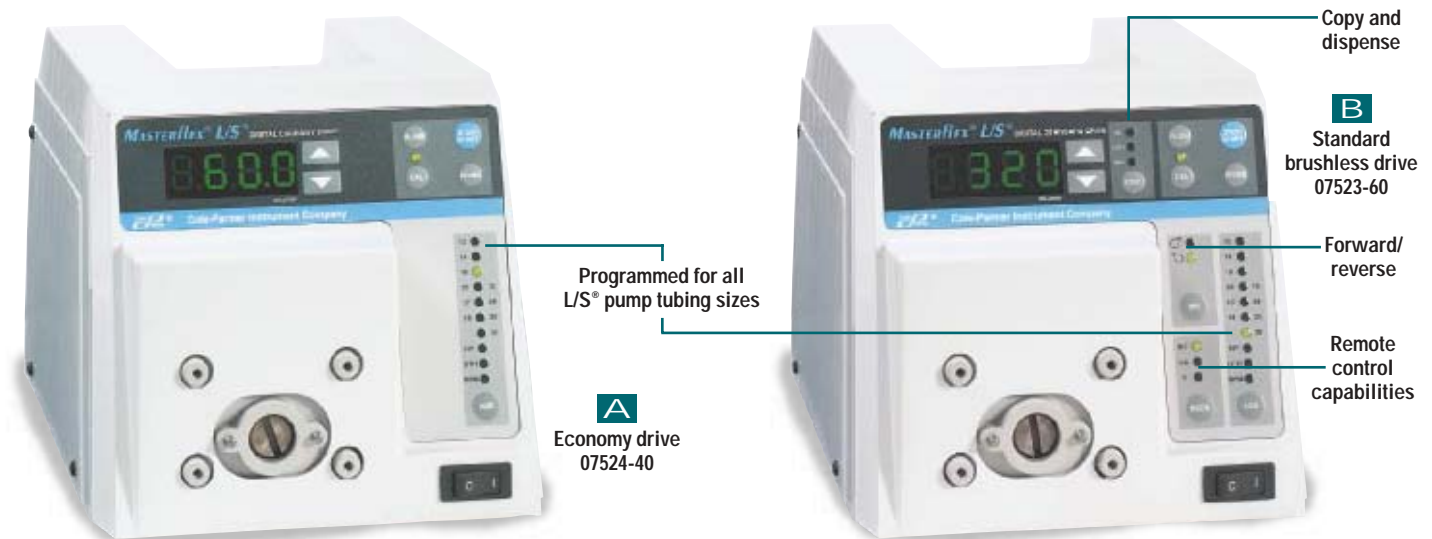
- ▶ Flow rate: 0.1 to 3400 mL/min; cartridge flow rate: 0.001 to 1700 mL/min. Flow rate depends on drive rpm and tubing size.
- ▶ Membrane keypad for easy programming. Select tubing size and enter desired flow rate—drive automatically locks in required rpm.
- ▶ Keypad lock/unlock feature prevents accidents or tampering.
- ▶ Tachometer feedback for $\pm 0.25\%$ speed control; dispense or meter with accuracy and precision.
- ▶ Drive stores one user-specified calibration value per tubing size even when power is turned off—calibrate system to improve display accuracy.



Our L/S® digital drives offer wide flow ranges, powerful motors, and an easy-to-read digital display. Choose version “A” for its economical price, or if you need more versatility, select our “B” digital drives, which offer all of the features of our economy drive plus a maintenance-free brushless reversible motor, precision PWM speed control, dual voltage, copy/dispense features, and full-featured remote control capabilities. Drives feature a stackable ABS plastic housing, IP23 rated for splash resistance.

What's included: 6-ft (1.8-m) line cord with IEC 320/CEE22 socket. Please specify destination country; product shipped with country specific plug/cord set.

Easy-to-Read Digital Display!



A Economy Digital Drives

- ▶ Display shows motor rpm or flow rate; view feedback of pump performance. 10 to 600 rpm model resolution: 1 rpm (flow rate: 0.1 to 10 autoranging); 1.6 to 100 rpm model resolution: 0.1 rpm (flow rate: 0.01 to 1 autoranging)
- ▶ Select from two speed ranges—both accept multiple pump heads. Order a drive based on flow rate or number of heads needed.

Technical info

Variable-speed digital drives accept nine different pump head types: Standard, Easy-Load®, Easy-Load® II, Easy-Load® 3, Multichannel, High-Performance, Cartridge, PTFE-Tubing, PTFE-Diaphragm.

GO to



For technical information on Masterflex® pump tubing, including chemical compatibility, visit our Web site at www.coleparmer.co.uk/ MasterflexTubing

B Standard Brushless Digital Drives

- ▶ Four-digit LED display shows four different parameters: motor rpm, flow rate, dispense volume, and copy number. View pump performance continually. 10 to 600 rpm model resolution: 1 rpm (flow rate: 0.1 to 10 autoranging); 1.6 to 100 rpm model resolution: 0.1 rpm (flow rate: 0.01 to 1 autoranging).
- ▶ Dispense by: mL—vol in mL of each dispense; 0.001 to 9999 mL; copy—1 to 9,999 dispense cycles; or SEC—time between each dispense: 1 to 9,999 secs.
- ▶ Remote control capabilities via DB15 female connector on back of drive:
 - Speed control input: 0 to 20 mA, 4 to 20 mA, or 0 to 10 V;
 - Pumping direction: requires open collector or contact closure;
 - Start/stop/purge: requires open collector or contact closure.
 - Tachometer output: 0 to 20 mA, 4 to 20 mA, 0 to 10 V, or TTL pulse;

These advanced digital drives now feature a dispense interval mode that lets you set a delay between dispense cycles. You get the ease and convenience of hands-off automatic dispensing. Reversible motor allows you to purge tubing and pump in either direction.

Flow rates in mL/min (flow rates in parentheses can only be obtained with the High-Performance pump head—see page 1377)

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
	Standard*, Easy-Load®, Easy-Load® II, Easy-Load® 3						Multichannel**, Standard, Easy-Load® II, Easy-Load® 3, High-Performance			
	Cartridge, Multichannel			Cartridge			Easy-Load®			

A-B Economy digital and brushless digital drives

10 to 600	0.6 to 36	2.1 to 130	8 to 480	17 to 1000	28 to 1700	38 to 2300	17 to 1000 (18 to 1100)	28 to 1700 (30 to 1800)	38 to 2300 (43 to 2600)	48 to 2900 (58 to 3400)
1.6 to 100	0.1 to 6	0.4 to 21	1.4 to 80	3 to 170	5 to 280	6 to 380	3 to 170 (3 to 180)	5 to 280 (5 to 300)	6 to 380 (7 to 430)	8 to 480 (9 to 580)

*The Standard pump head is not available for L/S® 25. **Multichannel head is not available for L/S® 36. Multichannel and Cartridge heads are available for microbore tubing.

Specifications & Ordering Information for all drives on these two pages



Catalog number	rpm	Speed control	Pump heads accepted	Motor size	IP rating	Dimensions (L x W x H)	Power (50/60 Hz)	Price
A Economy digital drives								
C-07524-40	10 to 600	±0.25% (1 rpm at 600 rpm; 0.1 rpm at 100 rpm)	2	1/10 hp (75 W)	IP23	11 1/2" x 7" x 7" (29.2 cm x 17.8 cm x 17.8 cm)	90 to 130 VAC, 2.3 A	
C-07524-45	1.6 to 100		4				190 to 260 VAC, 1.2 A	
C-07524-50			90 to 130 VAC, 2.3 A					
C-07524-55			190 to 260 VAC, 1.2 A					
B Standard brushless digital drives								
C-07523-60	10 to 600	±0.25% (1 rpm at 600 rpm; 0.1 rpm at 100 rpm)	2	1/10 hp (75 W)	IP23	11 1/2" x 7" x 7" (29.2 cm x 17.8 cm x 17.8 cm)	Dual voltage: 90 to 130 VAC, 2.2 A and 190 to 260 VAC, 1.1 A	
C-07523-70	1.6 to 100		4				Dual voltage: 90 to 130 VAC, 2.2 A and 190 to 260 VAC, 1.1 A	

Accessories for 07523-series Brushless Digital Drives

[C-07595-42](#) Footswitch, momentary start/stop; 6-ft (1.8-m) cable

[C-07595-52](#) DB15 male connector. Use to create your own cable

[C-07595-60](#) Handheld dispensing wand

GO to pages 1387-1391

For L/S® precision pump tubing.

Complete L/S® Variable-Speed Digital Pump Systems

Complete System 1 includes:

Pump Head + **Tubing** + **Drive**

L/S® Easy-Load® II
pump head 77200-62
(pages 1374-1375)

Tygon® LFL L/S® 24 tubing
06429-24 10-ft (3-m)
(pages 1387-1391)

Economy digital drive
07524-40 or 07524-45
10 to 600 rpm (above)

Flow Range:
28 to 1700 mL/min
77920-30



Ordering Information—Complete Pump System 1

Catalog number	Description	Power	Price
C-77920-30	L/S® Economy digital pump	115 VAC, 50/60 Hz	
C-77920-37		230 VAC, 50/60 Hz	

Complete System 2 includes:

Pump Head + **Tubing** + **Drive**

L/S® Easy-Load® II
pump head 77200-62
(pages 1374-1375)

Tygon® LFL L/S® 24 tubing
06429-24 10-ft (3-m)
(pages 1387-1391)

Standard digital drive
07523-60
10 to 600 rpm (above)

Flow Range:
28 to 1700 mL/min
77921-40



Ordering Information—Complete Pump System 2

Catalog number	Description	Power	Price
C-77921-40	L/S® Standard brushless digital pump	115/230 VAC, 50/60 Hz	