

273

MASTERFLEX®

L/S® PRECISION VARIABLE-SPEED CONSOLE DRIVES

PRECISE SPEED CONTROL AND DIGITAL DISPLAY OF RPM

Available
July 2011



Drive 07528-10 shown with
two stacked L/S® Easy-Load® II
pump heads

- Membrane keypad for easy control of speed, direction, and start/stop
- $\pm 0.25\%$ speed control for accurate flow regulation
- Three-digit LED display of motor rpm—confirm speed setting at a glance
- LED indicators confirm the reversible motor's direction
- Flow rate from 0.6 to 3400 mL/min dependent on drive rpm and tubing size
- Separate speed and power (on/off) control—maintain speed setting while turning pump on/off
- Powerful motor lets you stack 2 or 4 pump heads for increased flow rates and for multichannel applications
- Drives accept nine different L/S® pump heads
- Rear DB9 female connector for remote control of speed, pump direction, and start/stop

 **Cole-Parmer®**
scientific experts



Rear view: independent on/off switch
and remote control DB9 connector



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APPLICATIONS

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- Chemical process



**L/S® variable-speed pump system
77916-10**

PERFORMANCE SPECIFICATIONS

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

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			
6 to 600	0.36 to 36	1.3 to 130	4.8 to 480	10 to 1000	17 to 1700	23 to 2300	10 to 1000 (11 to 1100)	17 to 1700 (18 to 1800)	23 to 2300 (26 to 2600)	29 to 2900 (34 to 3400)
3 to 300	0.18 to 18	0.65 to 65	2.4 to 240	5 to 500	8.5 to 850	11.5 to 1150	5 to 500 (5.5 to 550)	8.5 to 850 (9 to 900)	11.5 to 1150 (13 to 1300)	14.5 to 1450 (17 to 1700)
1 to 100	0.06 to 6	0.21 to 21	0.8 to 80	1.7 to 170	2.8 to 280	3.8 to 380	1.7 to 170 (1.8 to 180)	2.8 to 280 (3.0 to 300)	3.8 to 380 (4.3 to 430)	4.8 to 480 (5.8 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.

DRIVES ONLY



Catalog number	rpm	Speed control (resolution)	Pump heads accepted	Motor size	IP rating	Dimensions (L x W x H)	Power (50/60 Hz)	
							VAC	Amps
MK-07528-10	6 to 600	±0.25% (1 rpm at 600 rpm; 0.1 rpm at 100 rpm)	2	1/10 hp (75 W)	IP33	10" x 8.5" x 8.5" (25.4 x 21.6 x 21.6 cm)	90 to 260	1.8 at 115 VAC, 1.2 at 230 VAC
MK-07528-20	3 to 300		2					
MK-07528-30	1 to 100		4					

Note: Drives include 6-ft (1.8-m) line cord with IEC 320/CEE22 socket. These models are shipped with country specific plug/cord set; please specify ultimate destination when ordering.

COMPLETE L/S VARIABLE-SPEED PUMP SYSTEMS

Catalog number	Flow range	Pump head included	Tubing included	Drive included
MK-77916-10	4.8 to 480 mL/min	L/S Easy-Load® 3	Tygon® LFL, size L/S 16, 10 ft (3 m)	L/S Precision standard (07528-10 above)
MK-77916-20	17 to 1700 mL/min	L/S Easy-Load® II	Tygon® LFL, size L/S 24, 10 ft (3 m)	L/S Precision standard (07528-10 above)

ACCESSORIES

- [MK-07595-45](#) Connector, DB9 male. Use for 4 to 20 mA remote control
[MK-07595-47](#) Cable assembly, DB9 male connector and 25 ft (7.9 m) cable with stripped wire terminal ends. Use for remote control
[MK-77595-35](#) Foot switch, DB9 male

**For further information,
go to ColeParmer.com/Masterflex**