

MASTERFLEX®

I/P® SERIES PRECISION MODULAR PUMP SYSTEMS

MID-FLOW RANGE PUMP SYSTEMS FOR HIGH VOLUME METERING

Ideal for providing easy access to control enable ease of use and operation. The separate component allows location of the pump/motor unit to optimize system performance

- Easy to set up and operate with simple keypad control and universal control symbols
- Repeatable and accurate flow control with digital display of pump speed in 1 RPM increments
- Robust, continuous-duty performance with a powerful 1/5 HP motor that allows operation with up to 2 pump heads
- Available in either wipe-down (IP33) or wash-down (IP66/NEMA 4X) ingress protection
- Control interfaces directly with plant PLC controls and allows remote control of flow, start/stop, remote/local condition, and flow direction control

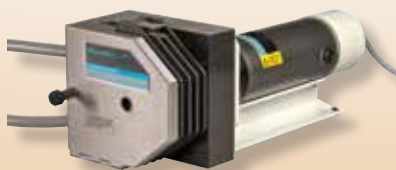


Wall-Mount
Controller

Bench-Top
Controller

PRECISION PUMP SYSTEMS

- Wipe-down bench-top units (IP33 ingress protection rated) to control contamination
- Wall-mount units (IP66 / NEMA 4X ingress protection rated) for use in wet or corrosive areas
- Regulatory compliance to ETL, cETL, and CE
- Drive includes motor, controller, 6ft (1.8M control cable), 6 ft (1.8m) standard NEMA 3-prong cord set, quick-start guide and CD manual
- Complete pump systems include all of above in addition to a pump head
- Available accessories include remote control cable, foot switch, motor cable extensions and International power cord sets



Bench-Top
Pump / Motor



Wall-Mount
Pump / Motor

Flow Rates in mL/min (GPM)

RPM	Precision pump tubing			High-performance precision pump tubing		
	I/P 26	I/P 73	I/P 82	I/P 70	I/P 88	I/P 89
0.1 to 650	0.01 to 4000 (0.002 to 1.1)	1.3 to 8000 (0.0003 to 2.1)	2.1 to 13,000 (0.0006 to 3.5)	1.3 to 8000 (0.0003 to 2.1)	2.1 to 13,000 (0.0006 to 3.5)	3 to 19,000 (0.0008 to 5.0)

I/P Modular Precision Pump Systems	
CATALOG NUMBER	
Pump System with Easy-Load Pump	Bench-top
Pump System with High-Performance Pump	Contact Factory
	Wall-mount
	MK-77714-15
	MK-77714-16
PERFORMANCE	
Max number of pump heads	2
Flow Capacity LPM (GPM)	0.04 to 19 (0.01 to 5.0)
RPM	6 to 650
Reversible	Yes
External Control - Input	4-20 mA; 0 – 10 V; Remote / Local; Dir (CW/CCW); Start/Stop
External Control - Output	N/A
ELECTRICAL SPECIFICATIONS	
Voltage (AC) 60/50 (Hz)	Universal input 90 to 260 VAC 60/50 (Hz)
Current	4.4A @115V; 2.6A@230V
Motor Type	PMDC
Motor Size	1/5 HP (150W)
Speed Control Type	PWM (Pulse Width Modulated)
Digital display	Seven-segment, 3-digit, Blue LED, 1RPM resolution
Speed regulation (accuracy)	± 0.25%
PHYSICAL SPECIFICATIONS	
Materials of construction	Aluminum, vinyl powder-coated aluminum, steel and ABS Plastic
IP rating	IP33
Agency approvals	ETL, cETL, CE, RoHS
Operating temperature	0 to 40°C (32 to 104°F)
Storage Temperature	-25 to 65°C (-13 to 149°F)
Noise Rating	< 70 dBA @ 1 meter
Dimensions (L x W x H) Controller	10.2 x 11 x 4.7 in. (25.9 x 27.9 x 11.9)
Dimensions (With Easy-Load pump) (L x W x H)	17.2 x 7 x 6.5 in. (43.7 x 17.8 x 11.4 cm)
Dimensions (With High-Performance pump)	18.9 x 7 x 6.5 in. (48 x 17.8 x 11.4 cm)
Weight (Drive Only)	21.1 lbs / (9.9 kg)

Accessories for Precision Bench-Top Systems

MK-07557-51 Motor extension cable, 9 ft (2.7 m) for bench top modular drives; extend distance between motor and controller

MK-07595-47 Cable, Remote Control, DB-9 Use for remote control only. Cable assembly, DB9 male connector connector and 25 ft (7.9 m) cable with stripped wire terminal ends

MK-77595-35 Foot switch, DB9 male with 6-ft (1.8 m) cable

Accessories for Precision Wall-Mount Systems

MK-07557-51 Motor extension cable, 9 ft (2.7 m) for wash down modular drives; extend distance between motor and controller

MK-77300-32 Remote Control Cable, 18-pin round connector and 25 ft (7.9 m) cable with stripped wire terminal ends. Use for remote control

MK-07595-43 Washdown foot switch, 18-pin round with 6-ft (1.8 m) cable

For more information:

800-637-3739 or 847-381-7050

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