Перистальтические насосы

Описание

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Reglo ICC Digital Peristaltic Pump

The Reglo Independent Channel Control (ICC) Digital Peristaltic Pumps provide individually addressable control of each fluidic channel, eliminating the clutter of multiple pumps on the benchtop. Each channel is independently programmable from the pump or the computer.

Note: 12-Roller models (750511, 75-0512 and 750515) can be used for microdialysis applications.

Item No.	Description
75-0070	Reglo ICC Digital 3-Channel, 8-Roller Peristaltic Pump
75-0510	Reglo ICC Digital 2-Channel, 8-Roller Peristaltic Pump
75-0511	Reglo ICC Digital 4-Channel, 12-Roller Peristaltic Pump
75-0512	Reglo ICC Digital 2-Channel, 12-Roller Peristaltic Pump
75-0513	Reglo ICC Digital 2-Channel, 6-Roller Peristaltic Pump
75-0514	Reglo ICC Digital 3-Channel, 6-Roller Peristaltic Pump
75-0515	Reglo ICC Digital 3-Channel, 12-Roller Peristaltic Pump
73-3054	MS/CA Pressure Lever Cassette Cartridge, 3-Stop, POM-C



The Reglo Independent Channel Control (ICC) Digital Multi-Channel Peristaltic Pumps allow individual control of the flow and direction of each fluidic channel. Each channel is independently programmable from the pump's intuitive keypad or via the computer. A single compact unit delivers continuous pumping or precision dispensing with the capability of bidirectional flow in each channel. Plus, independent channel calibration minimizes tube-to-tube differences, resulting in the best calibration accuracy possible in a multichannel peristaltic pump.

Features

- Continuous pumping or precision dispensing
- Flexibility of bi-directional flow in each channel
- Flow rate 0.002 ml/min to 43 ml/min depending on version and tube size
- Easy-to-use tubing cassettes allow quick changeovers
- USB interface for quick connections
- Available with two or four channels, each with independent functionality

• PC control or keypad control

•

Operating Modes

Flow Rate	Continuous operation at a set rate and direction	
Volume over Time	Dispensing a desired volume over a desired time	
Volume	pispensing a desired volume at a set flow rate	
Time Mode	Dispensing for a set time duration with a set flow rate	
Volume with Pause	Dispensing a set volume over multiple cycles with defined pause time in between	
Time with Pause	Dispensing for a set time duration over multiple cycles with defined pause time in between	
Calibration	Allows each channel to be calibrated for dispensed fluid volume accuracy	

	75-0070	75-0510	75-0511	75-0512	75-0513	75-0514	75-0515
Control Type	Variable- Speed Digital						
Minimum RPM	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Maximum RPM	100	100	100	100	100	100	100
Number of Channels	3	2	4	2	2	3	3
Number of Rollers	8	8	12	12	6	6	12
Max Flow Rate (mL/min)	35	35	24	24	43	43	24

Max Flow Rate per Channel (mL/min)	35	35	24	24	43	43	24
Maximum Pressure (PSI/Bar)	14.5/1	14.5/1	14.5/1	14.5/1	14.5/1	14.5/1	14.5/1
Number of Rollers	8	8	12	12	6	6	12
Accuracy	±1%	±1%	±1%	±1%	±1%	±1%	±1%
Power (VAC)	100 to 240						
Power (Hz)	50/60	50/60	50/60	50/60	50/60	50/60	50/60

Harvard Apparatus Peristaltic Pump P-70

TheHarvard Apparatus Peristaltic Pump P-70 offers unparalleled accuracy, reproducibility, and ease of use. P-70 drive provides flow rates from 0.001 to 70 ml/min

The Harvard Apparatus Peristaltic Pump consists of a control unit, a motor drive, a tubing cassette and some sample tubing.

Other benefits include:

- The ability to separate the motor drive from the controller to facilitate use and save space in incubators and fume hoods
- · A library of tubing sizes is stored in the pump's memory minimizing set up time
- Custom tubing can be used allowing complete flexibility
- A full range of interchangeable motor drives to allow for economical ease of use over a broad flow rate range.

A complete range of programmable functions allow the pump to be easily adapted to a wide range of dispensing applications. The pump has pre-programmed flow profiles for:

- Constant Flow
- Flow Ramps
- Pulsatile Flow
- Concentration Based Fluid Delivery

Item No.	Description
70-7000	Harvard Apparatus Peristaltic Pump P-70 (Complete System; Control Box & P-70 Motor Drive)
70-7003	Replacement P-70 Motor Drive, 8 Rollers, 5 Channels
72-0604	Replacement Cartridge/Cassette for P-70
70-7006	Replacement Standard Control Box for P Series Motor Drives



TheHarvard Apparatus Peristaltic Pump P-70 offers unparalleled accuracy, reproducibility, and ease of use. P-70 drive provides flow rates from 0.001 to 70 ml/min

Features

- LCD color touch screen with intuitive icon interface for unparalleled ease-of-use
- Remote design ideal for work inside incubators and fume hoods
- Interchangeable pump heads
- A library of tubing sizes stored in the pump's memory minimizes setup time
- Custom tubing can be used allowing complete flexibility
- Single channel or combined channel mode for setting flow rate
- Pump mode—runs continuously at a set flow rate
- Timed dispense—dispenses for a fixed time at a set flow rate
- Volume dispense—dispenses a fixed volume

- · Footswitch control
- · Analog control
- Bidrectional delivery
- CE, ETL (UL, CSA), WEEE, EU RoHS and CB Scheme Approved
- 2-year warranty

Benefits

- The ability to separate the motor drive from the controller to facilitate use and save space in incubators and fume hoods
- A library of tubing sizes is stored in the pump's memory minimizing set up time
- · Custom tubing can be used allowing complete flexibility
- A full range of interchangeable motor drives to allow for economical ease of use over a broad flow rate range.

The Harvard Apparatus Peristaltic Pump consists of a control unit, a motor drive, a tubing cassette and some sample tubing. The pump can deliver solutions over a range of flow rates from 0.001 to 1,500 ml/min depending on the motor drive used. Choose from three interchangeable motor drives. The motor drive modules provide flow over the following ranges:

- P-70 drive provides flow rates from 0.001 to 70 ml/min
- P-230 drive provides flow rates from 0.001 to 230 ml/min
- P-1500 drive provides flow rates from 0.01 to 1,500 ml/min

A complete range of programmable functions allow the pump to be easily adapted to a wide range of dispensing applications. The pump has pre-programmed flow profiles for:

- Constant Flow
- Flow Ramps
- Pulsatile Flow
- Concentration Based Fluid Delivery

In addition to the flow profiles, the pump has advanced user options that permit the pump to be controlled by a PC from its USB inputs as well as a range of options such as:

- Remote initiated start/stop times
- Communication with external devices through 15-pin I/O
- Constant pressure through BNC

All settings can easily be saved as user generated methods in the pump's memory. The method can be easily recalled and run very quickly, saving researchers valuable time. Connectivity to a wide range of external input or output devices is easily accomplished. A constant pressure mode may be utilized in conjunction with a pressure transducer. The pump will automatically rotate at the proper RPM for the tube selection and flow rate chosen. To further increase the accuracy, Harvard Apparatus Peristaltic Pumps offer a rapid calibration routine to further optimize flow accuracy by entering a measured volume of fluid collected.

Item#	70-0000
Description	Pump with P-70 Motor Drive
Туре	8 rollers, 5 channels
Accuracy	±1.0%
Back Pressure	15 psi
Computer Interface	USB Type 'B'
Control Box Dimensions, H x W x D	20.7 x 13 x 9.6 cm (8.13 x 5.13 x 3.75 in)
Pump Head Dimensions, H x W x D	11.5 x 25.4 x 11.8 cm (4.5 x 10 x 4.63 in)
Max RPM	229
Flow Rate Range (Min. to Max.)	0.001 mL/min to 70 mL/min
Power	100 to 250 VAC, 50/60 Hz
Protection Rating	IP23
Pump Configuration	Remote
Pump Voltage	30 VDC, 1.67A
Pump to Pump	IEEE 1394
Reversible Flow	Yes
TTL Connector	15-pin D-sub
Tubing ID	0.13 to 2.79 mm (0.005 to 0.110 in)
Weight	4.7 kg (10.5 lb)

Model 720 Pump Accessories

Model 720 Pump Accessories

Item No.	Description
61-0242	Silicone Tubing Set For Model 720 Pump, 1-Ch, Female Luer to 20 ga, pkg. of 5 - (0.020€½ ID tubing, with a female Luer lock on one end, and a 20ga stub on the other 20ga Luer stub has .024€½ ID x 0.036€½ OD)
61-0243	Silicone Tubing Set For Model 720 Pump, 1-Ch, 0.062€½ ID Barbs, pkg. of 5 - (0.031€½ ID tubing, with 0.062€½ ID Barb, for use with 1/16€½ ID Tygon tubing)
61-0244	Silicone Tubing Set For Model 720 Pump, 1-Ch, 0.062€½ ID Barbs, pkg. of 5 - (0.093€½ ID tubing, with 0.062€½ ID Barb for use with 1/16€½ ID Tygon tubing [WARNING: using the 1/16€½ ID tubing will restrict the flow])
61-0245	Silicone Tubing Set For Model 720 Pump, 2-Ch, 0.062€⊠ ID Barbs, pkg. of 5- (DUAL 0.062€⊠ ID tubing, with 0.062€⊠ ID Barb for use with 1/16€⊠ ID Tygon tubing)



Model 720 Pump Accessories

Compact Peristaltic Pump (Model 720)

The Instech Model 720 Compact Peristaltic Pumps are a stand-alone pump series with flow rates of 0.2 µl/min to 18 ml/min (0.04 to1100 ml/hr) depending upon the pump and tubing selected.

These pumps deliver the accurate low flow rates of syringe pumps without the limits on delivered volume. They are ideal for animal IV infusion, tissue perfusion, and other low-flow laboratory applications. Choose the motor and tube set that best matches your flow requirements.

Click here for for the Model 720 pumps.

Item No.	Description
72-4048	Model 720 Compact Peristaltic Pump, Very Low Flow Rate
61-0098	Model 720 Compact Peristaltic Pump, Low Flow Rate
72-0001	Model 720 Compact Peristaltic Pump, High Flow Rate



The Instech Model 720 Compact Peristaltic Pumps are a stand-alone pump series with flow rates of 0.2 µl/min to 18 ml/min (0.04 to1100 ml/hr) depending upon the pump and tubing selected. These pumps deliver the accurate low flow rates of syringe pumps without the limits on delivered volume. They are ideal for animal IV infusion, tissue perfusion, and other low-flow laboratory applications.

Features

- Compact and versatile peristaltic pump
- · Continuous infusion
- Battery back-up (30 hrs)
- Minimal electromagnetic radiation
- Choose from ultra-low, low, mid, or high flow

Instech offers this pump with four different motors; choose the motor and tube set that best match your flow rate requirements. In general, use the standard 61-0098 for flows between 0.05 and 1 ml/min, the lower flow 72-4048 for rates between 5 and 100 μ l/min, the ultra low flow 72-4049 for rates as low as 0.2

µI/min, and then the higher-flow 72-0001 for rates up to18 mI/min (1 I/hr). With a given tube set, the pump performs best over a 10:1 flow control range.

Flow Rate Ranges

	Item # (Flow Rate Requirement)						
Tube ID	72-4049 (Ultra Low)	72-4048 (Very Low)	61-0098 (Low)	72-0001 (High)			
0.015"	0.2 - 2.2 µl/min	0.8 – 7.5 μl/min	8 - 83 µl/min	70 - 700 μl/min			
0.020"	0.4 - 4.6 µl/min	1.6 - 16 µI/min	18 - 180 µI/min	0.15 - 1.5 ml/min			
0.031"	0.9 - 8.7 µI/min	3 - 30 µl/min	35 - 350 μl/min	0.3 - 2.8 ml/min			
0.062"	3 - 30 µl/min	10 - 100 μl/min	125 - 1,250 µl/min	0.9 – 9 ml/min			
0.093"	6 - 58 µI/min	20 - 200 μl/min	240 - 2,400 μl/min	1.8 - 18 ml/min			

Operation and Use

The pump's analog circuitry has been carefully designed to minimize electromagnetic radiation; for this reason, the pump is often used for tissue perfusion even in the presence of sensitive intracellular recordings. It is also an ideal pump for applications which require limited size or weight, the versatility of single and dual tubes sets and/or external analog control.

An internal 9 V lithium battery (supplied with PC4 61-0098, PC4 72-4048 and PC4 72-4049) will run the pump for up to 30 hours, protecting your experiment in the event of a power failure. Due to its power requirements, the high flow version (PC4 72-0001) is not available with battery backup.

The pump is typically powered by a 1.25 V internal reference voltage. An external reference voltage can be used to regulate flow rate and direction (pump direction can only be reversed by analog control). Under external control the speed dials serve as voltage attenuators to limit the external voltage to ±1.25 volts.

Recommended Tubing

must be purchased separately. Please contact technical support if you need assistance choosing the right tube set. For use with saline and most drugs, use silicone tubing. For use with solutions containing fats, such as IV diets, use C-FLEX® tubing. For use with petroleum-based fluids, use VITON® tubing.

Description	Compact Peristaltic Pumps	
Channels	1	
Accuracy	±5%	
Repeatability	±3%	

Flow Control Range	20:1
Power Source	Universal 15 VDC 1Acadapter, 2.5 mm male plug and tip
Dimensions, H x W x D	2.5 x 2.3 x 4.0 in (6.4 x 5.7 x 10.2 cm)
Weight	375 g (1 lb)
Voltage Range	Universal input 100 to 240 VAC, 50/60 Hz

Reglo Masterflex® Digital Peristaltic Pumps

Reglo Masterflex® Digital Peristaltic Pumps are versatile multichannel pumps for accurate low-flow fluid delivery – with an intuitive touch-screen interface.

- Compact, benchtop pumps optimize ease of use, accuracy, and reliability
- 5" (12.7 cm) capacitive TFT/RGB touch screen for crisp resolution and a wide viewing angle
- Flexible operational control via screen, or analog remote control
- Continuous run, volume dispense, and time dispense modes -- batch control and interval/off time in Volume and Time modes
- Anti-drip and speed ramping available in Volume dispense mode ensure accuracy and minimize sample loss
- Cassette pump models accept for easy loading and secure retention

Item No.	Description
75-1000	Reglo Masterflex Digital 2-Channel 6-Roller Peristaltic Pump
75-1001	Reglo Masterflex Digital 2-Channel 8-Roller Peristaltic Pump
75-1002	Reglo Masterflex Digital 2-Channel 12-Roller Peristaltic Pump
75-1003	Reglo Masterflex Digital 4-Channel 6-Roller Peristaltic Pump
75-1004	Reglo Masterflex Digital 4-Channel 8-Roller Peristaltic Pump
75-1005	Reglo Masterflex Digital 4-Channel 12-Roller Peristaltic Pump
73-3054	MS/CA Pressure Lever Cassette Cartridge, 3-Stop, POM-C



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- 5" (12.7 cm) capacitive TFT/RGB touch screen for crisp resolution and a wide viewing angle
- Flexible operational control via screen, or analog remote control
- Continuous run, volume dispense, and time dispense modes -- batch control and interval/off time in Volume and Time modes
- Anti-drip and speed ramping available in Volume dispense mode ensure accuracy and minimize sample loss
- Cassette pump models accept for easy loading and secure retention

	75-1000	75-1001	75-1002	75-1003	75-1004	75-1005
Enclosure	IP31: Plastic housing with aluminum chassis and bezel					
Motor Speed Range (RPM)	0.15 to 160					
Number of Channels	2	2	2	4	4	4
Number of Rollers	6	8	12	6	8	12
Min Flow Rate (mL/min/channel)	0.0002	0.0002	0.0001	0.0002	0.0002	0.0001
Max Flow Rate (mL/min/channel)	68	57	38	68	57	38
Remote Analog Connection	25-pin D-Sub					
Three Stop Tubing Size Range	0.13 mm to 3.17 mm ID					
Digital display	5" capacitive TFT/RGB touch screen with in- plane switching (wide viewing angle); 800 x 480 pixels	5" capacitive TFT/RGB touch screen with in- plane switching (wide viewing angle); 800 x 480 pixels	5" capacitive TFT/RGB touch screen with in- plane switching (wide viewing angle); 800 x 480 pixels	5" capacitive TFT/RGB touch screen with in- plane switching (wide viewing angle); 800 x 480 pixels	5" capacitive TFT/RGB touch screen with in- plane switching (wide viewing angle); 800 x 480 pixels	5" capacitive TFT/RGB touch screen with in- plane switching (wide viewing angle); 800 x 480 pixels
Control functions	Start, speed, direction, internal/external control, anti-drip, volume/time/copy dispense, dispense sounds, auto restart, language, calibration, tubing size, prime, lock	Start, speed, direction, internal/external control, anti-drip, volume/time/copy dispense, dispense sounds, auto restart, language, calibration, tubing size, prime, lock	Start, speed, direction, internal/external control, anti-drip, volume/time/copy dispense, dispense sounds, auto restart, language, calibration, tubing size, prime, lock	Start, speed, direction, internal/external control, anti-drip, volume/time/copy dispense, dispense sounds, auto restart, language, calibration, tubing size, prime, lock	Start, speed, direction, internal/external control, anti-drip, volume/time/copy dispense, dispense sounds, auto restart, language, calibration, tubing size, prime, lock	Start, speed, direction, internal/external control, anti-drip, volume/time/copy dispense, dispense sounds, auto restart, language, calibration, tubing size, prime, lock
Accuracy	0.1% / 0.1 RPM					
Power (VAC)	90 to 260 VAC					

Dimensions (L x W	8.7" x 5.8" x 6.3"					
x H) with pump	(22.1 x 14.7 x 15.7					
head	cm)	cm)	cm)	cm)	cm)	cm)

Harvard Apparatus Peristaltic Pump P-1500

The Harvard Apparatus Peristaltic Pump series offers unparalleled accuracy, reproducibility, and ease of use over a broad range of flow rates.

Other benefits include:

- The ability to separate the motor drive from the controller to facilitate use and save space in incubators and fume hoods
- · A library of tubing sizes is stored in the pump's memory minimizing set up time
- Custom tubing can be used allowing complete flexibility
- A full range of interchangeable motor drives to allow for economical ease of use over a broad flow rate range.

The Harvard Apparatus Peristaltic Pump consists of a control unit, a motor drive, a tubing cassette and some sample tubing. The pump can deliver solutions over a range of flow rates from 0.001 to 1,500 ml/min depending on the motor drive used. Choose from three interchangeable motor drives. The motor drive modules provide flow over the following ranges:

- P-70 drive provides flow rates from 0.001 to 70 ml/min
- P-230 drive provides flow rates from 0.001 to 230 ml/min
- P-1500 drive provides flow rates from 0.01 to 1,500 ml/min

A complete range of programmable functions allow the pump to be easily adapted to a wide range of dispensing applications. The pump has pre-programmed flow profiles for:

- Constant Flow
- Flow Ramps
- Pulsatile Flow
- Concentration Based Fluid Delivery

Item No.	Description
70-7002	Harvard Apparatus Peristaltic Pump P-1500 (Complete System; Control Box & P-1500 Motor Drive)
70-7006	Replacement Standard Control Box for P Series Motor Drives
70-7008	Harvard Apparatus Perisaltic Pump P-1500 with Weight Scale Integration (Complete System; Weight Scale Control Box & P-1500 Motor Drive)



The Harvard Apparatus Peristaltic Pump series offers unparalleled accuracy, reproducibility, and ease of use over a broad range of flow rates.

Features

- LCD color touch screen with intuitive icon interface for unparalleled ease-of-use
- Remote design ideal for work inside incubators and fume hoods
- Interchangeable pump heads
- A library of tubing sizes stored in the pump's memory minimizes setup time
- · Custom tubing can be used allowing complete flexibility
- Single channel or combined channel mode for setting flow rate
- Pump mode—runs continuously at a set flow rate
- Timed dispense—dispenses for a fixed time at a set flow rate
- Volume dispense dispenses a fixed volume
- Footswitch control
- Analog control
- Bidrectional delivery
- CE, ETL (UL, CSA), WEEE, EU RoHS and CB Scheme Approved
- 2-year warranty

Benefits

- The ability to separate the motor drive from the controller to facilitate use and save space in incubators and fume hoods
- A library of tubing sizes is stored in the pump's memory minimizing set up time
- Custom tubing can be used allowing complete flexibility

· A full range of interchangeable motor drives to allow for economical ease of use over a broad flow rate range.

The Harvard Apparatus Peristaltic Pump consists of a control unit, a motor drive, a tubing cassette and some sample tubing. The pump can deliver solutions over a range of flow rates from 0.001 to 1,500 ml/min depending on the motor drive used. Choose from three interchangeable motor drives. The motor drive modules provide flow over the following ranges:

- P-70 drive provides flow rates from 0.001 to 70 ml/min
- P-230 drive provides flow rates from 0.001 to 230 ml/min
- P-1500 drive provides flow rates from 0.01 to 1,500 ml/min

A complete range of programmable functions allow the pump to be easily adapted to a wide range of dispensing applications. The pump has pre-programmed flow profiles for:

- Constant Flow
- Flow Ramps
- Pulsatile Flow
- Concentration Based Fluid Delivery

In addition to the flow profiles, the pump has advanced user options that permit the pump to be controlled by a PC from its USB inputs as well as a range of options such as:

- Remote initiated start/stop times
- Communication with external devices through 15-pin I/O
- · Constant pressure through BNC

All settings can easily be saved as user generated methods in the pump's memory. The method can be easily recalled and run very quickly, saving researchers valuable time. Connectivity to a wide range of external input or output devices is easily accomplished. A constant pressure mode may be utilized in conjunction with a pressure transducer. The pump will automatically rotate at the proper RPM for the tube selection and flow rate chosen. To further increase the accuracy, Harvard Apparatus Peristaltic Pumps offer a rapid calibration routine to further optimize flow accuracy by entering a measured volume of fluid collected.

Item#	70-002	
Description	Pump with P-1500 Motor Drive	
Туре	4 rollers, 1 channel	
Accuracy	±1.0%	
Back Pressure	30 psi	
Computer Interface	USB Type 'B'	
Control Box Dimensions, H x W x D	20.7 x 13 x 9.6 cm (8.13 x 5.13 x 3.75 in)	
Pump Head Dimensions, H x W x D	11.5 x 24.1 x 11.8 cm (4.5 x 9.5 x 4.63 in)	
Max RPM	375	
Flow Rate Range (Min. to Max)	0.001 mL/min to 1500 mL/min	

Power	100 to 250 VAC, 50/60 Hz
Protection Rating	IP 32
Pump Configuration	Remote
Pump Voltage	30 VDC, 1.67A
Pump to Pump	IEEE 1394
Reversible Flow	Yes
TTL Connector	15-pin D-sub
Tubing ID	0.8 to 8.0 mm (0.03 to 0.314 in)
Weight	5 kg (11 lb)

MPII Mini-Peristaltic Pump

The MPII Mini-Peristaltic Pump is a small, economical and convenient peristaltic pump ideal for applications requiring a pump with a small footprint.

The MPII uses 1.6 mm ID x 3.2 mm OD (1/16 x 1/8) tubing and it can support one or or two tubes simultaneously. Two front panel controls provide flow rates from approximately 0.8 to 12.25 ml/min. The second control is a two position toggle switch marked x1, x2 which selects low or high flow rates.

Item No.	Description
70-2027	MPII Mini-Peristaltic Pump, 115/230 VAC, 50/60 Hz
55-4148	Pump Head Tubing Pieces For MPII Mini-Peristaltic Pump



The MPII Mini-Peristaltic Pump is a small, economical and convenient peristaltic pump ideal for applications requiring a pump with a small footprint.

The MPII uses 1.6 mm ID x 3.2 mm OD (1/16 x 1/8) tubing and it can support one or or two tubes simultaneously. Two front panel controls provide flow rates from approximately 0.8 to 12.25 ml/min. The second control is a two position toggle switch marked x1, x2 which selects low or high flow rates.

The easy-loading four-roller pump head is on top of the stout metal box. The back of the pump head effortlessly rotates into an open position and either one or two tubes can be dropped into slots. The loaded roller section simply rotates back against spring loaded jaws and locks into place. The tubing is automatically in proper wiping contact with the pump head rollers. Each pump is provided with a 12.5 mm (0.5 in) rod clamp on the back so that multiple pumps can be mounted vertically onto a lattice rod.

Features

- Continuous low flow rates ideals for slow perfusion studies and continuous animal feeding
- Pump can take one or two tubes simultaneously, 1/16-in OD
- Low electrical and mechanical noise
- Small Size

MPII flow rates in ml/min

Switch	With One Tube		With Two Tubes	
Setting	Min.	Max.	Min.	Max.
χl	0.8 ml/min	7.00 ml/min	1.6 ml/min	14.00 ml/min
x2	1.5 ml/min	12.25 ml/min	3.0 ml/min	24.50 ml/min

Item#	70-2027	
Description	MPII Mini-Peristaltic Pump	
Output Pressure	In excess of 20 p.s.i.	
Power	12 VDC 800 mA, 2.5 mm Connector, 115-230 VAC, 50/60 Hz, Universal power supply, 10 W	
Dimensions, H x W x D 189 x 114 x 105 cm (3.5 x 4.5 x 4 in)		
Weight	0.96 kg (2.1 lb)	
Tubing ID	1/16 in	

По вопросам продаж и поддержки обращайтесь:

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