P720 Peristaltic Pumps

Instech's P720 peristaltic pumps deliver the accurate low flow rates of syringe pumps without the limits on delivered volume. They are ideal for infusion, tissue perfusion, and other low-flow laboratory applications.

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.

Instech offers this pump with three different motors; choose the motor and tube set size that best match your flow rate requirements. In general, use the standard P720 for flows between 0.05 and 1 mL/min, the lower flow P720/10K for rates between 5 and 100 μ L/min, and then the higher-flow P720/66 for rates up to 18 mL/min (1 L/hr).

PART NO.	DESCRIPTION	UNIT
P720/10K	Very-low-flow peristaltic pump, tube sets not included	ea
P720	Low-flow peristaltic pump, tube sets not included	ea
P720/66	High-flow peristaltic pump, tube sets not included	ea
P720/NCA	Fittings for straight-through tube sets	
P720/RMC	Rod mounting clamp for P720 pumps	
P720/KSK	Kapton® strip kit: 10 strips, 3 pcs grip paper, tool, clip	ea
P720/BATT	9V lithium battery for P720 pump	ea

With a given tube set size, the pump performs best over a 10:1 flow control range. You control pump speed with dials (0-100) which convert to flow rate with a single point calibration, or use an external input voltage (which can run the pump in either direction).

FEATURES

Snap-in tube sets with a wide range of tubing materials, sizes and connectors

Precision machined pump head with Swiss-made motor assembly for accuracy and repeatability

Kapton strip to improve accuracy and tube set life

Battery backup for portability and protection during power failure (except P720/66 model)



Analog speed control input for remote control or closed-loop applications

Fine speed control

Coarse speed control





Fittings for straight-through tube sets are available when connectors are not desired





P720 PERISTALTIC PUMP TUBE SETS



A variety of tube sizes and connector types lets you tailor your P720 pump to your application. Tube sets typically last about one month under continuous operation. Use Silicone (S) with saline and most drugs. Use C-Flex[®] (C) for solutions containing fats, such as IV diets. New pumps do not include tube sets; please order them separately. Sold in packages of five.



SPECIFICATIONS

	P720/10K	P720	P720/66	
Flow Rate Range				
.015" tube	0.8 - 7.5 µl/min	8 - 83 µL/min	70 - 700 μL/min	
.020″ tube	1.6 - 16 µl/min	18 - 180 µL/min	0.15 - 1.5 ml/min	
.031" tube	3 - 30 µl/min	35 - 350 μL/min	0.3 - 2.8 ml/min	
.062" tube	10 - 100 µl/min	125 - 1250 µL/min	0.9 - 9 ml/min	
.093" tube	20 - 200 µl/min	240 - 2400 µL/min	1.8 - 18 ml/min	
Flow Control Range	~ 10:1	~ 10:1	~ 10:1	
Accuracy	±5%	±5%	±5%	
Repeatability	±3%	±3%	±3%	
Motor Gear Ratio	10683:1	900:1	66:1	
Gearhead Type	Spur	Spur	Planetary	
Power Source	Universal 15 VDC 1A adapter, 2.5mm male plug, +tip Input: 100-240VAC, 50-60Hz; plugs for US, Europe, UK, and Australia			
Backup Battery	9V lithium	9V lithium	NA	
Backup Battery Life	~ 30 hours	~ 30 hours	NA	
Operating Humidity	<80% (non-condensing)			
Dimensions	2.5 x 2.3 x 4.0" (6x4 x 5.7 x 10.2 cm)			
Weight	375g	375g	375g	

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