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 µL/min, and then the higher-flow P720/66 for rates up to 18 mL/min (1 L/hr).

P720/10K	Very-low-flow peristaltic pump, tube sets not included	
	very-low-now peristaine pullip, tube sets flot illeladed	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	pair
P720/RMC	Rod mounting clamp for P720 pumps	ea
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

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



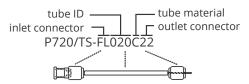


P720 PERISTALTIC PUMP TUBE SETS



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.

	INLET	******			··· TUBE ····		***********		OUTLET
_	——————————————————————————————————————	BS-	015S	020S	031S	062S	093S	-BS	
H				020C	031C	062C	093C		
F	FL FL	FL-	015S	020S	031S	062S	093S	-LL	
В				020C	031C	062C	093C		
		22-	015S	020S				-22	
				020C					
A	4	FL-	015S	020S				-22	
Н				020C	OC — —				
		DBS-1		020S	0315	062S		-DBS	
				020C	031C 062C				
		DBS-1		020S	0315	062S		-DBSU ²	
				020C	031C	062C			
		none ³	015S	020S	0315	062S	093S	none ³	
				020C	031C	062C	093C		



'Dual Tube Set Warning: Dual channel tube sets, particularly the 062 size, place more stress on the pump motor than do single channel tube sets, which will shorten the life of the pump. Pumps with spur gearheads (P720/10K and P720) are more susceptible to this stress than are pumps with planetary gearheads (P720/66). In addition, dual 062 tube sets make contact with the sides of the pump rotor, which will cause those tube sets to wear faster than other sizes.

²One tube of the DBSU set is slightly longer (unbalanced) for level control in tissue chambers

³Use with straight-through tube set fittings (P720/NCA)

C-Flex® is a registered trademark of Saint-Gobain.

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			

Instech Laboratories, Inc.

450 South Gravers Road Plymouth Meeting, PA 19462 USA phone: 800.443.4227

fax: 610.941.0134

web: www.instechlabs.com



