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Harvard Apparatus Peristaltic Pump 44 Performance Specifications

Pump 44 Specifications

Type	Single Syringe Infusion/Withdrawal
Size	257 x 289 x 152 mm (10.1 x 11.4 x 6 in)
Weight	7.25 kg (16 lb)
Power	115/230 VAC, 50/60 Hz via selector switch, 65 W
Fuse	3AG 1/2 AMP 250 V SLO-BLO
Leakage to Ground	Typically < 10 μ A
Ground Resistance	Typically < 0.05
Voltage Operating Range	95 to 130 VAC, 220 to 260 VAC
Drive Motor	1.8° stepper
Motor Drive Circuitry	Microprocessor controlled from 1/2 to 1/32 microstepping
Timing Belt Drive	2:1
Lead Screw Pitch	24 threads/in
Motor Steps per One- Revolution of Lead Screw	From 800 to 12,800 dependent on rate
Step Rate:	
Minimum	27.3 sec/step
Maximum	416.7 μ sec/step
Minimum Pusher- Advance/Step	0.082 μ m
Pusher Travel Rate:	
Minimum	0.18 μ m/min
Maximum	190.676 mm/min
Dynamic Speed Range	1,059,311 to 1
Maximum Force	193 lb
Maximum Pressure	1500 psi with an 8 ml stainless steel syringe
Accuracy	\pm 1%
Reproducibility	\pm 0.1%
Calibration	Enter syringe dia. from table, any size, any make up to 50 mm dia.
Syringe Size:	
Minimum	0.5 μ l
Maximum	140 ml

Flow Rate Range:	
Minimum	0.0001 μ l/hr (0.5 μ l syringe)
Maximum	220.82 ml/min (140 ml syringe)
Display	20 character alphanumeric vacuum fluorescent; 5 LED indicators
RS-232 Interface	Multiplexed dual bidirectional ports
Non-Volatile Memory	Storage of all settings



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