

Benchtop pumping unit with digital speed control and timer

Technical Data Sheet

Models:

PPS200166A

PPS200326A



1. General Description

Benchtop pumping unit with digital speed control and timer for continuous and accurate transfer of liquids.

2. Application and Usage

Continuous and accurate transfer of liquids in laboratory, research and development, hydroponic, and horticultural applications.

Not to be used for clinical trials or for products intended for human consumption.

3. Features

- Digital speed control
- 6-mode digital timer
- Illuminated on/off switch
- Replaceable internal tube

4. Specifications

Model	PPS200166A	PPS200326A
Minimum flow rate*	0.001 ml/min	0.1 ml/min
Maximum flow rate*	42.0 ml/min	134.0 ml/min

MAIDEN'S WELL

Internal tube ID	1.6 mm 1/16"	3.2mm 1/8"
Inlet/outlet tubing (recommended size)	ID 1.5 – 1.6 mm	ID 3.0 – 3.2 mm
Timer ranges	0.01 to 99.99 seconds 0.1 to 999.9 seconds 1 to 9999 seconds 1 to 9999 minutes	
Timer modes	<p>1: When Start/Stop button is pressed pump runs for a set time.</p> <p>2: When unit is switched on pump runs continuously. When Start/Stop button is pressed the pump stops for a set time before restarting.</p> <p>3: When Start/Stop button is pressed pump runs for a set time, then stops for a set time. Cycle is repeated for a set number of cycles after which the pump stops.</p> <p>4: When Start/Stop button is pressed pump runs for a set time after a set delay. Cycle is repeated for a set number of cycles after which the pump runs continuously.</p> <p>5: When unit is switched on pump runs for a set time, then stops for a set time. Cycle is repeated for a set number of cycles after which the pump stops.</p> <p>6: When unit is switched on pump runs for a set time after a set delay. Cycle is repeated for a set number of cycles after which the pump runs continuously.</p>	
No. of rollers	6	
Pump speed	0-350 rpm	
Pump driver	Stepper motor	
Speed control accuracy	0.1%	
Flow accuracy	1-5%	
Pump rotation	Counterclockwise, non-reversible	
Dimensions (L x W x H)	243 mm x 134 mm x 160 mm 9.6" x 5.3" x 6.3"	
Weight	1.17 kg 2.58 lbs.	
Motor power	36W	
Power supply	24V DC 3A, 5.5 mm x 2.5 mm, center positive	
Materials	Housing	ABS plastic
	Internal tube	BPT
	Rollers	PET plastic
Operating temperature	0-45 °C 32-113 °F	
Humidity	< 70% non-condensing	

MAIDEN'S WELL

Noise rating	52dB at 0.5m
IP rating	IP 22 as per IEC 60529

*Measured using water at 20°C at atmospheric pressure and inlet/outlet tubing of ID 1.6mm and 3.0mm. Actual flow rates will vary depending on liquid being transferred, size of inlet/outlet tubing, environmental conditions, and condition of internal tube. Minimum flow rates are applicable to a period of at least 30 minutes.

5. Warranty

6 months (excluding replaceable internal tube).

6. Sales and Technical Support

Sales: sales@maidenswell.com

Technical support: support@maidenswell.com