

Benchtop pumping unit with automatic pH control

Technical Data Sheet

Models:

PPS500166A

PPS500326A



1. General Description

Benchtop pumping unit with digital speed control and automatic start-stop function according to a set pH value.

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
- Two operating modes: manual and automatic pH control for dosing acids and bases
- Replaceable internal tube

4. Requirements

The following must be purchased separately to enable automatic pH control:

- pH transmitter with 4...20mA output via a male GX16-2 connector and pH probe
- Siemens Logo!Soft Comfort software
- Ethernet cable

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- PC or laptop

5. Specifications

Model	PPS500166A	PPS500326A
Minimum flow rate*	0.001 ml/min	0.1 ml/min
Maximum flow rate*	42.0 ml/min	134.0 ml/min
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
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	
pH range	0-14	
pH accuracy	±0.1	
pH transmitter type	4...20mA output with male GX16-2 connector	
pH transmitter connection	Female GX16-2 connector	
PC connector	RJ45 ethernet socket	
Dimensions (L x W x H)	244 mm x 135 mm x 170 mm 9.6" x 5.3" x 6.7"	
Weight	1.58 kg 3.48 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	
Noise rating	52dB at 0.5m	

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IP rating	IP 22 as per IEC 60529
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*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.

6. Warranty

6 months (excluding replaceable internal tube).

7. Sales and Technical Support

Sales: sales@maidenswell.com

Technical support: support@maidenswell.com