

## 23 Liter Polycarbonate Open Bath System



AP23P100

### Key Specifications

<b>Description</b>	23 L Open Bath System
<b>Controller Type</b>	Advanced Programmable
<b>Display</b>	4.3" SmartTouch Touchscreen
<b>Connectivity</b>	Ethernet, USB A & B, RS232/addressable RS485, Remote On/Off, External Temperature Probe
<b>Languages Supported</b>	11: French, German, Spanish, Chinese, Portuguese, Russian, Hindi, Arabic, Italian, Korean, English
<b>Time/Temperature Programs &amp; Steps</b>	Open Mode: No restriction on the number of programs or steps
<b>Swivel 180 Rotating Controller</b>	Yes
<b>Working Temperature Range °C</b>	Ambient +10° to 85°
<b>Temperature Stability °C</b>	±0.005°
<b>Fluid Optimization/Specific Heat Tuning</b>	Automatic and/or user-adjustable
<b>Temperature Calibration Capability</b>	10-point
<b>Working Access (L x W x D) (cm)</b>	21 x 30.5 x 20.3 cm
<b>Pump Type</b>	Pressure/Suction
<b>External Temperature Control Capability</b>	Yes

## Key Features

### POLYCARBONATE OPEN BATHS

#### Features

- Advanced Programmable or MX Temperature Controller
- 8, 11, 14, 17, 23 or 28 liter reservoir
- Transparent polycarbonate reservoir lets you keep samples in clear view
- Elevated tank bottom provides secure hand holds when lifting or relocating bath, remains stable on uneven surfaces
- Controller bridge removes easily for tank cleaning, rests securely on reservoir top edge when in use
- Included bath cover reduces evaporation and improves temperature stability
- DuraTop™ chemical resistant bridge
- Lidded opening for optional cooling coil (17, 23 and 28 liter models)
- Drain port (17, 23 and 28 liter models)
- Complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids

#### Select a Controller

	<u>Advanced Programmable (AP)</u>	<u>MX</u>
<b>Temperature Stability</b>	±0.005°C	±0.07°C
<b>Pump Type</b>	Pressure/Suction, Variable-Speed	Pressure Only, 1-Speed
<b>Programmability</b>	Unlimited programs and steps	N/A
<b>Connectivity</b>	USB A & B, Ethernet, RS-232/RS-485, Remote On/Off, External Temperature Probe	

#### Select a Reservoir

	<u>8 Liter</u>	<u>11 Liter</u>	
<b>Maximum Temperature</b>	85°C	85°C	85°C
<b>Working Access (L x W x D)</b>	4.1 x 6.1 x 8 in 10.5 x 15.6 x 20.3 cm	8.3 x 6.1 x 8 in 21 x 15.6 x 20.3 cm	12.1 x 6.1 x 8 in 31.1 x 15.6 x 20.3 cm

# Common Specifications

<b>Working Temperature Range °F</b>	Ambient +20° to 185°
<b>Working Temperature Range °C</b>	Ambient +10° to 85°
<b>Reservoir Capacity (gallons)</b>	6.08
<b>Reservoir Capacity (liters)</b>	23
<b>Reservoir/Tank Material</b>	Polycarbonate
<b>Reservoir Cover</b>	Included
<b>DuraTop</b>	Yes
<b>Working Access (L x W x D) (inches)</b>	8.3 x 12 x 8 in
<b>Working Access (L x W x D) (cm)</b>	21 x 30.5 x 20.3 cm
<b>Temperature Stability °F</b>	±0.02°
<b>Temperature Stability °C</b>	±0.005°
<b>Display</b>	4.3" SmartTouch Touchscreen
<b>Display Resolution (Set)</b>	0.01
<b>Display Resolution (Read)</b>	0.001
<b>Pump Type</b>	Pressure/Suction
<b>Pump Speed</b>	Variable
<b>Process Connections</b>	1/4" (F) NPT
<b>External Temperature Control Capability</b>	Yes
<b>Flammability Class (DIN 12876-1)</b>	I (NFL)
<b>Over-Temperature Protection / Failsafe Heater Control</b>	Yes
<b>Low Liquid Level Protection</b>	Yes
<b>Reservoir Drain</b>	Yes
<b>Cooling Coil</b>	Accessory
<b>Included Software</b>	PolyTemp Viewer, TDMS file viewer, USB driver, Time/Temperature Program Generator, PolyTemp Remote iPhone application
<b>Maximum Ambient Temperature °F</b>	95°
<b>Maximum Ambient Temperature °C</b>	35°
<b>Overall Dimensions (L x W x H) (inches)</b>	18 x 13.6 x 16.3 in
<b>Overall Dimensions (L x W x H) (cm)</b>	45.7 x 34.5 x 41.3 cm
<b>Environmental Compliance</b>	RoHS, WEEE
<b>Shipping Weight (pounds)</b>	51.0
<b>Shipping Weight (kilograms)</b>	23.1

## 60 Hz Only

<b>Part Number</b>	AP23P100-A11B
<b>Maximum Pressure (psi)</b>	4.3
<b>Maximum Pressure (bar)</b>	0.30
<b>Maximum Pressure Flow Rate (gpm)</b>	5.30
<b>Maximum Pressure Flow Rate (l/min)</b>	20.1
<b>Maximum Suction Flow Rate (gpm)</b>	3.9
<b>Maximum Suction Flow Rate (l/min)</b>	14.7
<b>Included Hardware</b>	Nylon hose adapters for 3/8", 1/4", and 3/16"
<b>Heater Wattage</b>	1100
<b>Electrical Requirements (VAC/Hz/Ph/A)</b>	120/60/1/10
<b>Regulatory Approvals</b>	ETL

## 50 Hz Only

<b>Part Number</b>	AP23P100-A12E
<b>Maximum Pressure (psi)</b>	3.6
<b>Maximum Pressure (bar)</b>	0.25
<b>Maximum Pressure Flow Rate (gpm)</b>	4.40
<b>Maximum Pressure Flow Rate (l/min)</b>	16.7
<b>Maximum Suction Flow Rate (gpm)</b>	3.2
<b>Maximum Suction Flow Rate (l/min)</b>	12.2
<b>Included Hardware</b>	Nylon hose adapters for 3/8", 1/4", and 3/16", and 1/4" NPT to M16 adapter
<b>Heater Wattage</b>	2200
<b>Electrical Requirements (VAC/Hz/Ph/A)</b>	240/50/1/10
<b>Regulatory Approvals</b>	CE



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