

## 23 Liter Polycarbonate Open Bath System



AP23P100

### Key Specifications

|   |  |
|---|--|
| Description                             | 23 L Open Bath System  |
| Controller Type                         | Advanced Programmable  |
| Display                                 | 4.3" SmartTouch Touchscreen  |
| Connectivity                            | Ethernet, USB A & B, RS232/addressable RS485, External Temperature Probe |
| Languages Supported                     | 6: French, German, Spanish, Chinese, Arabic, English                     |
| Time/Temperature Programs & Steps       | Ten 100-step programs  |
| Swivel 180 Rotating Controller          | Yes  |
| Working Temperature Range °C            | Ambient +10° to 85°  |
| Temperature Stability °C                | ±0.01°   |
| Fluid Optimization/Specific Heat Tuning | Automatic and/or user-adjustable   |
| Temperature Calibration Capability      | 5-point  |
| Working Access (L x W x D) (cm)         | 21 x 30.5 x 20.3 cm  |
| Pump Type                               | Pressure/Suction   |

|   |         |
|---|---------|
| External Temperature Control Capability | Yes     |
| Flammability Class (DIN 12876-1)        | I (NFL) |

## 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

|                              | <b>Advanced Programmable (AP)</b>                              | <b>MX</b>              |
|------------------------------|--|------------------------|
| <b>Temperature Stability</b> | ±0.01°C  | ±0.07°C                |
| <b>Pump Type</b>             | Pressure/Suction, Variable-Speed                               | Pressure Only, 1-Speed |
| <b>Programmability</b>       | Ten 100-step programs  | N/A                    |
| <b>Connectivity</b>          | USB A & B, Ethernet, RS-232/RS-485, External Temperature Probe |                        |

#### Select a Reservoir

**8 Liter**

**11 Liter**

|                                       |   |  |
|---------------------------------------|---|--|
| <b>Maximum Temperature</b>            | 85°C                                      | 85°C                                   |
| <b>Working Access<br/>(L x W x D)</b> | 4.1 x 6.1 x 8 in<br>10.5 x 15.6 x 20.3 cm | 8.3 x 6.1 x 8 in<br>21 x 156 x 20.3 cm |

## Common Specifications

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

|   |                       |
|---|-----------------------|
| Overall Dimensions (L x W x H) (inches) | 18 x 13.6 x 16.3 in   |
| Overall Dimensions (L x W x H) (cm)     | 45.7 x 34.5 x 41.3 cm |
| Environmental Compliance                | RoHS, WEEE            |
| Shipping Weight (pounds)                | 51.0                  |
| Shipping Weight (kilograms)             | 23.1                  |
| Catalog Page Number                     | 64-65                 |

## 60 Hz Only

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

## 50 Hz Only

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

