PolyScience

# 14 Liter Polycarbonate Open Bath System

AP14P100

## Key Specifications

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|---|---|
| Description | 14 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) | 31.4 x 15.6 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

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

Select a Reservoir

| | 8 Liter | 11 Liter |
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|---|---|---|
| **Maximum Temperature** | 85ºC | 85ºC |
| **Working Access (L x W x D)** | 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

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|---|---|
| Working Temperature Range °F | Ambient +20° to 185° |
| Working Temperature Range °C | Ambient +10° to 85° |
| Reservoir Capacity (gallons) | 3.7 |
| Reservoir Capacity (liters) | 14 |
| Reservoir/Tank Material | Polycarbonate |
| Reservoir Cover | Included |
| DuraTop | Yes |
| Working Access (L x W x D) (inches) | 12.4 x 6.1 x 8 in |
| Working Access (L x W x D) (cm) | 31.4 x 15.6 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 |
| 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) | 20.9 x 8.2 x 16.3 in |
| Overall Dimensions (L x W x H) (cm) | 53.2 x 20.8 x 41.3 cm |

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| Environmental Compliance | RoHS, WEEE |
| Shipping Weight (pounds) | 30.0 |
| Shipping Weight (kilograms) | 13.6 |
| Catalog Page Number | 64-65 |

## 60 Hz Only

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|---|---|
| Part Number | AP14P100-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

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|---|---|
| Part Number | AP14P100-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 |
| Regulatory Approvals | CE |