

## 11 Liter Polycarbonate Open Bath System



AP11P100

### Key Specifications

|                                         |                                                                                                    |
|-----------------------------------------|----------------------------------------------------------------------------------------------------|
| Description                             | 11 L Open Bath System                                                                              |
| Controller Type                         | Advanced Programmable                                                                              |
| Display                                 | 4.3" SmartTouch Touchscreen                                                                        |
| Connectivity                            | Ethernet, USB A & B, RS232/addressable RS485, Remote On/Off, External Temperature Probe            |
| Languages Supported                     | 11: French, German, Spanish, Chinese, Portuguese, Russian, Hindi, Arabic, Italian, Korean, English |
| Time/Temperature Programs & Steps       | Open Mode: No restriction on the number of programs or steps                                       |
| Swivel 180 Rotating Controller          | Yes                                                                                                |
| Working Temperature Range °C            | Ambient +10° to 85°                                                                                |
| Temperature Stability °C                | ±0.005°                                                                                            |
| Fluid Optimization/Specific Heat Tuning | Automatic and/or user-adjustable                                                                   |
| Temperature Calibration Capability      | 10-point                                                                                           |
| Working Access (L x W x D) (cm)         | 21 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 | ±0.005°C                                                                      | ±0.07°C                |
| Pump Type             | Pressure/Suction, Variable-Speed                                              | Pressure Only, 1-Speed |
| Programmability       | OpenMode - unlimited programs and steps                                       | N/A                    |
| Connectivity          | USB A & B, Ethernet, RS-232/RS-485, Remote On/Off, External Temperature Probe |                        |

Select a Reservoir

|                               | 8 Liter                                   | 11 Liter                                |
|-------------------------------|-------------------------------------------|-----------------------------------------|
| Maximum Temperature           | 85°C                                      | 85°C                                    |
| Working Access<br>(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 15.6 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)                          | 2.91                                                                                                                  |
| Reservoir Capacity (liters)                           | 11                                                                                                                    |
| Reservoir/Tank Material                               | Polycarbonate                                                                                                         |
| Reservoir Cover                                       | Included                                                                                                              |
| DuraTop                                               | Yes                                                                                                                   |
| Working Access (L x W x D) (inches)                   | 8.3 x 6.1 x 8 in                                                                                                      |
| Working Access (L x W x D) (cm)                       | 21 x 15.6 x 20.3 cm                                                                                                   |
| Temperature Stability °F                              | ±0.02°                                                                                                                |
| Temperature Stability °C                              | ±0.005°                                                                                                               |
| 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)<br>(inches) | 16.8 x 8.2 x 16.3 in  |
| Overall Dimensions (L x W x H) (cm)        | 42.7 x 20.8 x 41.3 cm |
| Environmental Compliance                   | RoHS, WEEE            |
| Shipping Weight (pounds)                   | 27.0                  |
| Shipping Weight (kilograms)                | 12.2                  |
| Catalog Page Number                        | 64-65                 |

## 60 Hz Only

|                                          |                                               |
|------------------------------------------|-----------------------------------------------|
| Part Number                              | AP11P100-A11B                                 |
| Maximum Pressure (psi)                   | 4.3                                           |
| Maximum Pressure (bar)                   | 0.30                                          |
| Maximum Pressure Flow Rate (gpm)         | 5.30                                          |
| Maximum Pressure Flow Rate<br>(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<br>(VAC/Hz/Ph/A) | 120/60/1/10                                   |
| Regulatory Approvals                     | ETL                                           |

## 50 Hz Only

|                                          |                                                                            |
|------------------------------------------|----------------------------------------------------------------------------|
| Part Number                              | AP11P100-A12E                                                              |
| Maximum Pressure (psi)                   | 3.6                                                                        |
| Maximum Pressure (bar)                   | 0.25                                                                       |
| Maximum Pressure Flow Rate (gpm)         | 4.40                                                                       |
| Maximum Pressure Flow Rate<br>(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<br>(VAC/Hz/Ph/A) | 240/50/1/10                                                                |



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