

## 28 Liter Stainless Steel Open Bath System



AP28S150

### Key Specifications

|                                         |                                                                          |
|-----------------------------------------|--------------------------------------------------------------------------|
| Description                             | 28 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 150°                                                     |
| 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)         | 25.7 x 21.4 x 20.3 cm                                                    |
| Pump Type                               | Pressure/Suction                                                         |

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

Key Features

STAINLESS STEEL OPEN BATHS

Features

- Working temperatures from ambient +10° up to 150°C
- Advanced Programmable, Advanced Digital or MX Temperature Controller
- 6, 10, 20 or 28 liter reservoir
- DuraTop™ Chemical Resistant Bridge, Swivel 180™ Rotating Controller (on Advanced Programmable and Advanced Digital models)
- Lidded opening for optional cooling coil (10, 20 and 28 liter models)
- External circulation capability
- Complies with DIN 12876-1 Class I safety requirements for use with non-flammable liquids
- Includes bath cover

Select a Controller

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

Select a Reservoir

- 6 Liter
- 10 Liter
- 20 Liter
- 28 L

|                                   |                                       |                                           |                                          |                                          |
|-----------------------------------|---------------------------------------|-------------------------------------------|------------------------------------------|------------------------------------------|
| <b>Maximum Temperature</b>        | Advanced Programmable: 150°C          | Advanced Programmable: 150°C              | Advanced Programmable: 150°C             | Advanced Programmable: 150°C             |
|                                   | Advanced Digital: 150°C               | Advanced Digital: 150°C                   | Advanced Digital: 150°C                  | Advanced Digital: 150°C                  |
|                                   | MX: 135°C                             | MX: 135°C                                 | MX: 135°C                                | MX: 135°C                                |
| <b>Working Access (L x W x H)</b> | 3.9 x 4.3 x 6 in<br>10 x 11 x 15.2 cm | 3.9 x 10.1 x 6 in<br>9.9 x 25.5 x 15.2 cm | 10.4 x 9 x 6 in<br>26.4 x 22.8 x 15.2 cm | 10.4 x 9 x 6 in<br>26.4 x 22.8 x 15.2 cm |

## Common Specifications

|                                                       |                             |
|-------------------------------------------------------|-----------------------------|
| Working Temperature Range °F                          | Ambient +20° to 302°        |
| Working Temperature Range °C                          | Ambient +10° to 150°        |
| Reservoir Capacity (gallons)                          | 7.4                         |
| Reservoir Capacity (liters)                           | 28                          |
| Reservoir/Tank Material                               | Stainless Steel             |
| Reservoir Cover                                       | Included                    |
| DuraTop                                               | Yes                         |
| Working Access (L x W x D) (inches)                   | 10.1 x 8.4 x 8 in           |
| Working Access (L x W x D) (cm)                       | 25.7 x 21.4 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                         |
| 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) | 20.9 x 13.5 x 16.9 in                                                                                                 |
| Overall Dimensions (L x W x H) (cm)     | 53.1 x 34.2 x 42.9 cm                                                                                                 |
| Environmental Compliance                | RoHS, WEEE                                                                                                            |
| Shipping Weight (pounds)                | 72.0                                                                                                                  |
| Shipping Weight (kilograms)             | 32.6                                                                                                                  |
| Catalog Page Number                     | 62-63                                                                                                                 |

## 60 Hz Only

|                                       |                                               |
|---------------------------------------|-----------------------------------------------|
| Part Number                           | AP28S150-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                        | AP28S150-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<br>(VAC/Hz/Ph/A) | 240/50/1/10                                                                |
| Regulatory Approvals                     | CE                                                                         |