

# 28 Liter Stainless Steel Open Bath System



AP28S150

## Key Specifications

<b>Description</b>	28 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 150°
<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>	25.7 x 21.4 x 20.3 cm
<b>Pump Type</b>	Pressure/Suction
<b>External Temperature Control Capability</b>	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

	<u>Advanced Programmable (AP)</u>	<u>Advanced Digital (AD)</u>	<u>MX</u>
<b>Temperature Stability</b>	±0.005°C	±0.01°C	±0.07°C
<b>Pump Type</b>	Pressure/Suction, Variable-Speed	Pressure/Suction, Variable-Speed	Pressure Only, 1-Speed
<b>Programmability</b>	Unlimited programs and steps	N/A	N/A
<b>Connectivity</b>	USB-A & B, Ethernet, RS-232/RS-485, Remote On/Off, External Temperature Probe	USB-A & B, Ethernet, RS-232/RS-485, External Temperature Probe	N/A

#### Select a Reservoir

	<u>6 Liter</u>	<u>10 Liter</u>	<u>20 Liter</u>	
<b>Maximum Temperature</b>	Advanced Programmable: 150°C Advanced Digital: 150°C MX: 135°C	Advanced Programmable: 150°C Advanced Digital: 150°C MX: 135°C	Advanced Programmable: 150°C Advanced Digital: 150°C MX: 135°C	Advanced Programmable: 150°C Advanced Digital: 150°C MX: 135°C

	<u>6 Liter</u>	<u>10 Liter</u>	<u>20 Liter</u>	
<b>Working Access (L x W x H)</b>	3.9 x 4.3 x 6 in 10 x 11 x 15.2 cm	3.9 x 10.1 x 6 in 9.9 x 25.5 x 15.2 cm	10.4 x 9 x 6 in 26.4 x 22.8 x 15.2 cm	10.1 x 8 25.7 x 2

## Common Specifications

<b>Working Temperature Range °F</b>	Ambient +20° to 302°
<b>Working Temperature Range °C</b>	Ambient +10° to 150°
<b>Reservoir Capacity (gallons)</b>	7.4
<b>Reservoir Capacity (liters)</b>	28
<b>Reservoir/Tank Material</b>	Stainless Steel
<b>Reservoir Cover</b>	Included
<b>DuraTop</b>	Yes
<b>Working Access (L x W x D) (inches)</b>	10.1 x 8.4 x 8 in
<b>Working Access (L x W x D) (cm)</b>	25.7 x 21.4 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>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>	20.9 x 13.5 x 16.9 in

<b>Overall Dimensions (L x W x H) (cm)</b>	53.1 x 34.2 x 42.9 cm
<b>Environmental Compliance</b>	RoHS, WEEE
<b>Shipping Weight (pounds)</b>	72.0
<b>Shipping Weight (kilograms)</b>	32.6
<b>Catalog Page Number</b>	62-63

## 60 Hz Only

<b>Part Number</b>	AP28S150-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>	AP28S150-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



© 2015-2020 PolyScience 6600 W. Touhy Avenue, Niles, Illinois 60714-4516 USA

**Phone:** +1(847) 647-0611 or +1(800) 229-7569 **Fax:** +1(847) 647-1155

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