

## 29 Liter Viscosity Bath, Square Openings

Image:



AP29VB3S

### Key Specifications

Description	Viscosity Bath, 29 L, 3 Square
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	±0.5°
Fluid Optimization/Specific Heat Tuning	Automatic and/or user-adjustable
Temperature Calibration Capability	10-point

Working Access (L x W x D) (cm)	(3) x 8.9 x 8.9 x 28.6 cm
Pump Type	Pressure/Suction
Flammability Class (DIN 12876-1)	I (NFL)

## Key Features

### Advanced Programmable Controller

#### Key Features

- OpenMode time time/temperature programming (no restrictions on number of programs or steps)
- Intuitive 4.3" (10.9 cm) SmartTouch display
- 11 languages: French, German, Spanish, Chinese, Portuguese, Russian, Hindi, Arabic, Italian, Korean, English
- Variable speed pump with open- and closed-loop external circulation capability
- Swivel 180™ Rotating Controller
- On-board connectivity: USB-A & B, Ethernet, RS-232/RS-485, remote on/off and external temperature probe
- Event scheduling (time & date) with real-time clock
- Review temperature trends for up to 10 days
- Multiple selectable "home" screens
- On-screen help
- Automatic and/or user-adjustable performance optimization
- 10-point calibration capability

#### Precise



#### Precise

Maintains temperatures with  $\pm 0.01^\circ\text{C}$  stability. Displays actual bath temperature to 1/1000°

temperature resolution and temperature trends from 4 minutes to 10 days. For more precise performance, the Advanced Programmable Controller offers advanced fluid tuning, user-settable temperature averaging on the display and temperature control of an external application.

## Powerful



Powerful

Extremely easy to use, the Advanced Programmable Controller's time/temperature programming allows you to create and edit programs quickly and easily. Settable time or temperature priority ensures programs run as intended. Plus for added convenience, you can preview, share or schedule a program to run automatically. The Controller can store 10 programs of up to 100 steps each.

## Connected



Connected

Extensive connectivity capabilities enable you to control and communicate with your circulator in a wide variety of ways, including Ethernet, RS-232, addressable RS-485, USB-A and USB-B. For additional communications flexibility, you can even emulate the command protocols of other popular circulating baths and communicate with your circulator using an iPhone®.

## Accessible



Accessible

On-screen help and intuitive touch screen operation make using the Advanced Programmable Controller exceptionally easy. Set-point changes, programming and operational changes are simple and fast.

Safe



Safe

Class III flammability rating (per DIN 12876-1), redundant over-temperature protection, high and low temperature limits and alarms alert you instantly to conditions that fall outside normal operating parameters. Lockout capability prevents unauthorized operational changes.

## Common Specifications

Working Temperature Range °F	Ambient +20° to 185°
Working Temperature Range °C	Ambient +10° to 85°
Reservoir Capacity (gallons)	7.66
Reservoir Capacity (liters)	29
Reservoir/Tank Material	Polycarbonate
Reservoir Cover	Square, Included
DuraTop	Yes
Working Access (L x W x D) (inches)	(3) x 3.5 x 3.5 x 11.25 in
Working Access (L x W x D) (cm)	(3) x 8.9 x 8.9 x 28.6 cm
Temperature Stability °F	±0.02°

Temperature Stability °C	±0.5°
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
Flammability Class (DIN 12876-1)	I (NFL)
Over-Temperature Protection / Failsafe Heater Control	Yes
Low Liquid Level Protection	Yes
Reservoir Drain	Yes
Cooling Coil Port	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)	21.4 x 9 x 20.7 in
Overall Dimensions (L x W x H) (cm)	54.4 x 22.9 x 52.6 cm
Environmental Compliance	RoHS, WEEE
Shipping Weight (pounds)	75.0
Shipping Weight (kilograms)	34.0
Catalog Page Number	70-71

## 50 Hz Only

Part Number	AP29VB3S-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

## 60 Hz Only

Part Number	AP29VB3S-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



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