

75 Liter Refrigerated Circulating Bath

Image:



AP75R-20

Key Specifications

Description	75 L, Ref. Circulator
Controller Type Display	Advanced Programmable 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	-20° to 100°
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)	54.9 x 39.8 x 23.9 cm
Pump Type	Pressure/Suction
Flammability Class (DIN 12876-1)	III (FL)

Key Features

75L , -20C

Key Features

- OpenMode 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, RS232/485, 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
- Includes Enhanced Performance Hardware & Software Package (Pt100 temperature probe, USB flash drive for data logging, stainless steel fittings and tubing adapters, and PolyScience LabVIEW™ Virtual Instrument)

Vertical Tabs

Intuitive and Precise



Intuitive and Precise

Our controllers display it all: internal bath temperature, external bath temperature, set-point and more—all on one easy to read screen.

Whether equipped with the entry-level controller or our most sophisticated icon-driven SmartTouch™ interface controller, PolyScience units are extremely easy to use. Clear navigational buttons and menu prompts guide you through setup, making operational and temperature set-point changes simple and precise.

Advanced Programmable temperature controllers guide you through setup and operation using universal icons, on-screen help and logical menus.

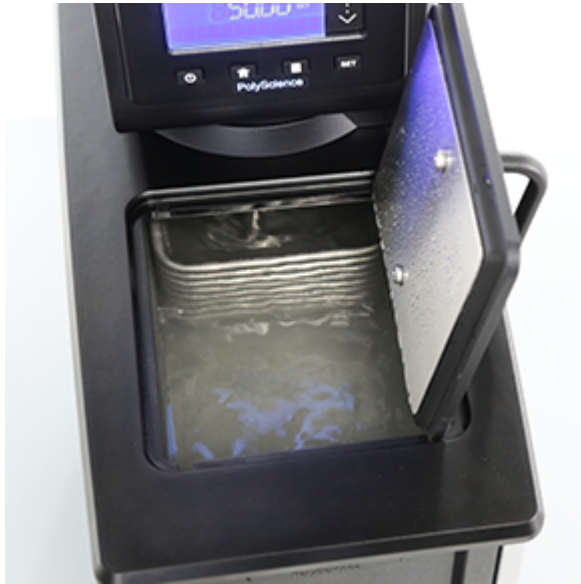
Connected



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.

Safe and Reliable



Safe and Reliable

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.

The elimination of RoHS-specified chemicals substances from fabricated components contributes to a cleaner, safer environment. In addition, all of our baths comply with WEEE, IEC 61010-1, IEC 61010-2-010, IEC 61326-1, DIN 12876 and are CE and ETL certified.

Class III Safety

Our Advanced Series Controllers feature temperature and float shut-off systems meeting DIN 12876-1 Class III standards for use with flammable liquids.

Total Control



Total Control

- Review and run even the most complex ramp and soak temperature program quickly and easily without any guesswork.
- Highly intuitive programming application lets you add, edit or delete steps quickly. Settable time or temperature priority ensures programs run as intended.

- Plain-text program naming and preview function make it easy to identify stored programs.
- Convenient upload/download utility allows you to easily share or backup stored programs.
- The intelligent scheduling application even lets you schedule a program to run automatically – hours, days, weeks, even months in the future.

Common Specifications

Working Temperature Range °F	-4° to 212°
Working Temperature Range °C	-20° to 100°
Nominal Cooling Capacity @ +20C (W)	1400
Reservoir Capacity (gallons)	19.81
Reservoir Capacity (liters)	75
Reservoir/Tank Material	Stainless Steel
Reservoir Cover	Included
DuraTop	Yes
Cleanable Air Filter	Yes
Working Access (L x W x D) (inches)	21.6 x 15.7 x 9.4 in
Working Access (L x W x D) (cm)	54.9 x 39.8 x 23.9 cm
Temperature Stability °F	±0.01°
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
Flammability Class (DIN 12876-1)	III (FL)
Over-Temperature Protection / Failsafe Heater Control	Yes
Low Liquid Level Protection	Yes
WhisperCool Environmental Control Technology	Yes
Cool Command Refrigeration Technology	Yes
Reservoir Drain	Yes
Included Software	PolyTemp Viewer, TDMS file viewer, USB driver, PolyScience LabVIEW Virtual Instrument & Functions, 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)	35.8 x 22.4 x 42.1 in
Overall Dimensions (L x W x H) (cm)	90.9 x 56.9 x 107 cm
Environmental Compliance	RoHS, WEEE
Shipping Weight (pounds)	200.0
Shipping Weight (kilograms)	90.6
Catalog Page Number	74

50 Hz Only

Part Number	AP75R-20-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
Cooling Capacity @ -20°C (W)	250
Cooling Capacity @ 0°C (W)	800
Cooling Capacity @ +20°C (W)	1400
Cooling Capacity @ +100°C (W)	1400
Included Hardware	PT100 temperature probe, USB drive, stainless steel hose adapters for 3/8", 1/4", and 3/16", and 1/4" NPT to M16 adapter
Electrical Requirements (VAC/Hz/Ph/A)	240/50/1/13
Regulatory Approvals	CE

60 Hz Only

Part Number	AP75R-20-A13D
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
Cooling Capacity @ -20°C (W)	250
Cooling Capacity @ 0°C (W)	800
Cooling Capacity @ +20°C (W)	1400
Cooling Capacity @ +100°C (W)	1400
Included Hardware	PT100 temperature probe, USB drive, stainless steel hose adapters for 3/8", 1/4", and 3/16"
Electrical Requirements (VAC/Hz/Ph/A)	208-240/50/60/1/13
Regulatory Approvals	ETL



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