20 Liter Heated Circulator

AP20H200

Key Specifications

Description	200, 20 L Htg. Circulator
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 200°
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)	25 x 31.6 x 14 cm
Pump Type	Pressure/Suction
External Temperature Control Capability	Yes
Flammability Class (DIN 12876-1)	III (FL)

Electrical Plug Options	Part numbers listed are Standard U.S. and European types. [Country specific plug types available.](#) Contact your [regional distributor to order.](#)

Key Features

Advanced Programmable Controller

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, 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
- Includes Enhanced Performance Hardware & Software Package (Pt100 temperature probe, USB flash drive for data logging, stainless steel fittings and tubing adapters, PolyScience LabVIEW Virtual Instrument, iPhone application download)

Common Specifications

Working Temperature Range °F	Ambient + 20° to 392°
Working Temperature Range °C	Ambient +10° to 200°
Reservoir Capacity (gallons)	5.28
Reservoir Capacity (liters)	20
Reservoir/Tank Material	Stainless Steel
Reservoir Cover	Included
DuraTop	Yes
LidDock	Yes
Working Access (L x W x D) (inches)	9.85 x 12.45 x 5.5 in
Working Access (L x W x D) (cm)	25 x 31.6 x 14 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)	III (FL)
Over-Temperature Protection / Failsafe Heater Control	Yes
Low Liquid Level Protection	Yes
Reservoir Drain	Yes
Cooling Coil	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)	24 x 16.5 x 16.6 in
Overall Dimensions (L x W x H) (cm)	61 x 41.9 x 42.2 cm
Environmental Compliance	RoHS, WEEE
Shipping Weight (pounds)	70.0
Shipping Weight (kilograms)	31.7
Catalog Page Number	52-53

60 Hz Only

Part Number	AP20H200-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	AP20H200-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

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