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7 Liter Low Profile Refrigerated Circulator, -20°C



AP7LR-20

Key Specifications

Description -20, 7 L Low Ref. Circulator

Controller Type Advanced Programmable

4.3" SmartTouch Touchscreen **Display**

Ethernet, USB A & B, RS232/addressable RS485, Remote Connectivity

On/Off, External Temperature Probe

11: French, German, Spanish, Chinese, Portuguese, Russian, **Languages Supported**

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 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) 15.7 x 14.2 x 12.7 cm

Pump Type

Pressure/Suction

External Temperature Control

Capability Yes

Flammability Class (DIN 12876-1) ||| (FL)

Part numbers listed are Standard U.S. and European types.

Electrical Plug Options Country specific plug types available. Contact your regional

distributor to order.

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
- 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 -4° to 392°

Working Temperature Range °C -20° to 200°

Nominal Cooling Capacity @ 200 +20C (W)

Reservoir Capacity (gallons) 1.85

Reservoir Capacity (liters) 7

Reservoir/Tank Material Stainless Steel

Reservoir Cover Included

DuraTop Yes

LidDock Yes

Cleanable Air Filter Yes

Working Access (L x W x D)

(inches)

6.18 x 5.59 x 5 in

Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm

Temperature Stability °F

±0.02°

Temperature Stability °C

±0.005° 4.3" SmartTouch Touchscreen

Display 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 /

Yes

Failsafe Heater Control Low Liquid Level Protection

Yes

Reservoir Drain

Yes

PolyTemp Viewer, TDMS file viewer, USB driver,

Included Software

Time/Temperature Program Generator, PolyTemp Remote

iPhone application

Maximum Ambient Temperature

95°

Maximum Ambient Temperature

35°

Overall Dimensions (L x W x H)

(inches)

23.2 x 16.2 x 16.2 in

Overall Dimensions (L x W x H)

(cm)

58.9 x 41.1 x 41.1 cm

Refrigerant

R134a

Environmental Compliance

RoHS, WEEE

Shipping Weight (pounds)

90.0

Shipping Weight (kilograms)

40.8

Catalog Page Number

36-37

60 Hz Only

Part Number AP7LR-20-A11B

Maximum Pressure (psi) 4.3 Maximum Pressure (bar) 0.30 **Maximum Pressure Flow Rate (gpm)** 5.30 Maximum Pressure Flow Rate (I/min) 20.1

Maximum Suction Flow Rate (gpm) 3.9

Maximum Suction Flow Rate (I/min) 14.7 Cooling Capacity @ -20°C (W) 30
Cooling Capacity @ 0°C (W) 120
Cooling Capacity @ +20°C (W) 200
Cooling Capacity @ +100°C (W) 200

Included Hardware Nylon hose adapters for 3/8", 1/4", and 3/16"

Heater Wattage 1100

Electrical Requirements (VAC/Hz/Ph/A) 120/60/1/12

Regulatory Approvals ETL

50 Hz Only

Part Number AP7LR-20-A12E

Maximum Pressure (psi) 3.6 **Maximum Pressure (bar)** 0.25 Maximum Pressure Flow Rate (gpm) 4.40 **Maximum Pressure Flow Rate (I/min)** 16.7 3.2 Maximum Suction Flow Rate (gpm) 12.2 **Maximum Suction Flow Rate (I/min)** Cooling Capacity @ -20°C (W) 30 120 Cooling Capacity @ 0°C (W) Cooling Capacity @ +20°C (W) 200 200 Cooling Capacity @ +100°C (W)

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) 240/50/1/12

Regulatory Approvals CE



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