7 Liter Low Profile Refrigerated Circulator, -20°C



AD7LR-20

Key Specifications

Description -20, 7 L Low Ref. Circulator

Controller Type Advanced Digital

Display 3.75" Touch-Pad LCD

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

Temperature Probe

Languages Supported 4: French, German, Spanish, English

Swivel 180 Rotating Controller Yes

Working Temperature Range °C -20° to 200° Temperature Stability °C ±0.01°

Fluid Optimization/Specific Heat

Automatic and/or user-adjustable **Tuning**

Temperature Calibration

1-point Capability

Working Access (L x W x D) (cm) 15.7 x 14.2 x 12.7 cm Pressure/Suction **Pump Type**

External Temperature Control

Yes

Capability

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

distributor to order.

Key Features

Advanced Digital Controller

Key Features

- Intuitive 3.75" (9.5 cm) display with touch-pad control
- 4 languages: French, German, Spanish, English
- Swivel 180™ Rotating Controller
- On-board connectivity: USB-A & B, Ethernet, RS-232/RS-485, and external temperature probe
- On-screen prompts
- Automatic performance optimization and specific heat tuning
- Single-point calibration capability

Common Specifications

Working Temperature Range °F -4° to 392° Working Temperature Range °C -20° to 200°

Nominal Cooling Capacity @ +20C (W) 200 Reservoir Capacity (gallons) 1.85 7 Reservoir Capacity (liters)

> 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 ±0.01°

> 3.75" Touch-Pad LCD Display

Display Resolution (Set) 0.01 Display Resolution (Read) 0.01

> **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

Included Software PolyTemp Viewer, USB driver

Maximum Ambient Temperature °F95°Maximum Ambient Temperature °C35°

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 40-41

60 Hz Only

AD7LR-20-A11B **Part Number** 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	AD7LR-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
Maximum Suction Flow Rate (gpm)	3.2
Maximum Suction Flow Rate (I/min)	12.2
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", 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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