

## 20 Liter Refrigerated Circulator, -30°C



AD20R-30

### Key Specifications

<b>Description</b>	-30, 20 L Ref. Circulator
<b>Controller Type</b>	Advanced Digital
<b>Display</b>	3.75" Touch-Pad LCD
<b>Connectivity</b>	Ethernet, USB A & B, RS232/addressable RS485, External Temperature Probe
<b>Languages Supported</b>	4: French, German, Spanish, English
<b>Swivel 180 Rotating Controller</b>	Yes
<b>Working Temperature Range °C</b>	-30° to 200°
<b>Temperature Stability °C</b>	±0.01°
<b>Fluid Optimization/Specific Heat Tuning</b>	Automatic and/or user-adjustable
<b>Temperature Calibration Capability</b>	1-point
<b>Working Access (L x W x D) (cm)</b>	25 x 31.6 x 14 cm
<b>Pump Type</b>	Pressure/Suction
<b>External Temperature Control Capability</b>	Yes
<b>Flammability Class (DIN 12876-1)</b>	III (FL)
<b>Electrical Plug Options</b>	Part numbers listed are Standard U.S. and European types. <a href="#">Country specific plug types available.</a> Contact your <a href="#">regional distributor to order.</a>

# 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

<b>Working Temperature Range °F</b>	-22° to 392°
<b>Working Temperature Range °C</b>	-30° to 200°
<b>Nominal Cooling Capacity @ +20C (W)</b>	915
<b>Reservoir Capacity (gallons)</b>	5.28
<b>Reservoir Capacity (liters)</b>	20
<b>Reservoir/Tank Material</b>	Stainless Steel
<b>Reservoir Cover</b>	Included
<b>DuraTop</b>	Yes
<b>LidDock</b>	Yes
<b>Cleanable Air Filter</b>	Yes
<b>Working Access (L x W x D) (inches)</b>	9.85 x 12.45 x 5.5 in
<b>Working Access (L x W x D) (cm)</b>	25 x 31.6 x 14 cm
<b>Temperature Stability °F</b>	±0.02°
<b>Temperature Stability °C</b>	±0.01°
<b>Display</b>	3.75" Touch-Pad LCD
<b>Display Resolution (Set)</b>	0.01
<b>Display Resolution (Read)</b>	0.01
<b>Pump Type</b>	Pressure/Suction
<b>Pump Speed</b>	Variable
<b>Process Connections</b>	1/4" (F) NPT
<b>External Temperature Control Capability</b>	Yes
<b>Flammability Class (DIN 12876-1)</b>	III (FL)
<b>Over-Temperature Protection / Failsafe Heater Control</b>	Yes
<b>Low Liquid Level Protection</b>	Yes
<b>WhisperCool Environmental Control Technology</b>	Yes

<b>Cool Command Refrigeration Technology</b>	Yes
<b>Reservoir Drain</b>	Yes
<b>Included Software</b>	PolyTemp Viewer, USB driver
<b>Maximum Ambient Temperature °F</b>	95°
<b>Maximum Ambient Temperature °C</b>	35°
<b>Overall Dimensions (L x W x H) (inches)</b>	24 x 16.6 x 26.9 in
<b>Overall Dimensions (L x W x H) (cm)</b>	61 x 41.9 x 68.3 cm
<b>Refrigerant</b>	R404A
<b>Environmental Compliance</b>	RoHS, WEEE
<b>Shipping Weight (pounds)</b>	130.0
<b>Shipping Weight (kilograms)</b>	58.9
<b>Catalog Page Number</b>	40-41

## 60 Hz Only

<b>Part Number</b>	AD20R-30-A11B
<b>Maximum Pressure (psi)</b>	4.3
<b>Maximum Pressure (bar)</b>	0.30
<b>Maximum Pressure Flow Rate (gpm)</b>	5.30
<b>Maximum Pressure Flow Rate (l/min)</b>	20.1
<b>Maximum Suction Flow Rate (gpm)</b>	3.9
<b>Maximum Suction Flow Rate (l/min)</b>	14.7
<b>Cooling Capacity @ -20°C (W)</b>	165
<b>Cooling Capacity @ 0°C (W)</b>	505
<b>Cooling Capacity @ +20°C (W)</b>	915
<b>Cooling Capacity @ +100°C (W)</b>	915
<b>Included Hardware</b>	Nylon hose adapters for 3/8", 1/4", and 3/16"
<b>Heater Wattage</b>	1100
<b>Electrical Requirements (VAC/Hz/Ph/A)</b>	120/60/1/13
<b>Regulatory Approvals</b>	ETL

## 50 Hz Only

<b>Part Number</b>	AD20R-30-A12E
<b>Maximum Pressure (psi)</b>	3.6
<b>Maximum Pressure (bar)</b>	0.25
<b>Maximum Pressure Flow Rate (gpm)</b>	4.40
<b>Maximum Pressure Flow Rate (l/min)</b>	16.7
<b>Maximum Suction Flow Rate (gpm)</b>	3.2
<b>Maximum Suction Flow Rate (l/min)</b>	12.2
<b>Cooling Capacity @ -20°C (W)</b>	165
<b>Cooling Capacity @ 0°C (W)</b>	505

<b>Cooling Capacity @ +20°C (W)</b>	915
<b>Cooling Capacity @ +100°C (W)</b>	915
<b>Included Hardware</b>	Nylon hose adapters for 3/8", 1/4", and 3/16", and 1/4" NPT to M16 adapter
<b>Heater Wattage</b>	2200
<b>Electrical Requirements (VAC/Hz/Ph/A)</b>	240/50/1/13
<b>Regulatory Approvals</b>	CE



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