

7 Liter Refrigerated Circulator, -20°C



SD07R-20

Key Specifications

Description	-20, 7 L Ref. Circulator
Controller Type	Standard Digital
Display	3.75" Touch-Pad LCD
Connectivity	RS232
Swivel 180 Rotating Controller	Yes
Working Temperature Range °C	-20° to 170°
Temperature Stability °C	±0.04°
Fluid Optimization/Specific Heat Tuning	Automatic
Temperature Calibration Capability	1-point
Working Access (L x W x D) (cm)	15.7 x 14.2 x 12.7 cm
Pump Type	Pressure
Flammability Class (DIN 12876-1)	I (NFL)

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

Standard Digital Controller

Key Features

- Large, universal icon and English display
- Swivel 180™ Rotating Controller
- On-board connectivity: RS-232 serial output
- On-screen prompts
- Automatic performance optimization
- Single-point calibration capability

Common Specifications

Working Temperature Range °F	-4° to 338°
Working Temperature Range °C	-20° to 170°
Nominal Cooling Capacity @ +20C (W)	200
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	±0.08°
Temperature Stability °C	±0.04°
Display	3.75" Touch-Pad LCD
Display Resolution (Set)	0.1
Display Resolution (Read)	0.1
Pump Type	Pressure

Pump Speed	Two
Process Connections	1/4" (F) NPT
Flammability Class (DIN 12876-1)	I (NFL)
Over-Temperature Protection / Failsafe Heater Control	Yes
Low Liquid Level Protection	Yes
Reservoir Drain	Yes
Maximum Ambient Temperature °F	95°
Maximum Ambient Temperature °C	35°
Overall Dimensions (L x W x H) (inches)	21.3 x 8.7 x 24.3 in
Overall Dimensions (L x W x H) (cm)	54.1 x 22.1 x 61.7 cm
Refrigerant	R134a
Environmental Compliance	RoHS, WEEE
Shipping Weight (pounds)	90.0
Shipping Weight (kilograms)	40.8
Catalog Page Number	42-43

60 Hz Only

Part Number	SD07R-20-A11B
Maximum Pressure (psi)	3.5
Maximum Pressure (bar)	0.24
Maximum Pressure Flow Rate (gpm)	2.90
Maximum Pressure Flow Rate (l/min)	11.0
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	SD07R-20-A12E
Maximum Pressure (psi)	2.9
Maximum Pressure (bar)	0.20
Maximum Pressure Flow Rate (gpm)	2.70
Maximum Pressure Flow Rate (l/min)	10.2
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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