

Thermo Scientific ARCTIC Series Refrigerated/Heated Bath Circulators

Multiple configurations allow the perfect fit for your external circulation applications.

Outstanding cooling power, expansive temperature ranges, powerful force/suction pumps, and sophisticated digital control technology designed to ensure accuracy and reproducibility of your liquid temperature control procedures. Six controller options allow you the flexibility to choose the right model for your application.

- Drain port at the front for operator convenience.
- Advanced design allows two sides of the unit to be blocked, allowing placement in a corner while maintaining full refrigeration performance.
- For less demanding applications, power consumptions can be lowered by utilizing the energy savings mode.
- The controller can be indexed 90° for easier viewing.

Typical applications:

- Calibration
- Bioreactors
- Rotary Evaporators
- Condensers
- Sample/Material Testing
- Sample/Material Preparation



Controller ▲	Bath ►	A10	A25
SC100		-10 to 100°C	-25 to 100°C
SC150		-10 to 100°C	-25 to 150°C
SC150L		—	-25 to 150°C
AC150		-10 to 100°C	-25 to 150°C
AC200		-10 to 100°C	-25 to 200°C
PC200		—	-25 to 200°C
Cooling capacity at 20°C 230V/115V		240W	500W
Maximum bath volume (liters)*		6	12
Work area (DxWxL) mm/in		150 x 136.7 x 123.5 / 5.9 x 5.4 x 4.9	200 x 173 x 183.7 / 7.9 x 6.8 x 7.2
Net weight (kg/lb)		27.5/60.6	36.1/79.5
Compliance		CE/ROHS/WEEE	CE/ROHS/WEEE

Ordering information:

Model	A10			A25		
Voltages (V/Hz)	115/60	230/50	100/50-60	115/60Hz	230/50	100/50-60
SC100 plus Bath	1525108	1525101	1525106	1525258	1525251	1525256
SC150 plus Bath	1535108	1535101	1535106	1535258	1535251	1535256
SC150L plus Bath	—	—	—	1545258	1545251	1545256
AC150 plus Bath	1555108	1555101	1555106	1555258	1555251	1555256
AC200 plus Bath	1565108	1565101	1565106	1565258	1565251	1565256
PC200 plus Bath	—	—	—	1575258	1575251	1575256

*Fluid volume varies depending on the fluid used, temperature range, and items inserted in the reservoir.

Bath Circulators

-40°C to 200°C

What's Included: 8mm and 12mm hose adapters for external circulation, 6-ft. power cord and work area cover.

Useful Accessories:

- Fluid Displacement Block
- Auto-refill (AC200 controller and above)
- Trolley (A25, A28, and A40 models only)
- External Temperature Probe (AC150 controller and above)
- Fluids

See page 22 for complete list of available accessories.

Overall dimensions can be found on page 26-27.



Controller ↑	Bath ►	A28	A28F	A40
SC100		-28 to 100°C	-28 to 100°C	—
SC150		-28 to 150°C	-28 to 150°C	-28 to 150°C
SC150L		-28 to 150°C	-28 to 150°C	-28 to 150°C
AC150		-28 to 150°C	-28 to 150°C	-28 to 150°C
AC200		-28 to 200°C	-28 to 200°C	-40 to 200°C
PC200		-28 to 200°C	-28 to 200°C	-40 to 200°C
Cooling capacity at 20°C 230V/115V		320W	320W	900W
Maximum bath volume (liters)*		10	10	12
Work area (DxWxL) mm/in		200 x 173 x 129 / 7.9 x 6.8 x 5.1	200 x 173 x 129 / 7.9 x 6.8 x 5.1	200 x 173 x 183.7 / 7.9 x 6.8 x 7.2
Net weight (kg/lb)		36/79.1	35.6/78.3	55.2/121.5
Compliance		CE/ROHS/WEEE	CE/ROHS/WEEE	CE/ROHS/WEEE

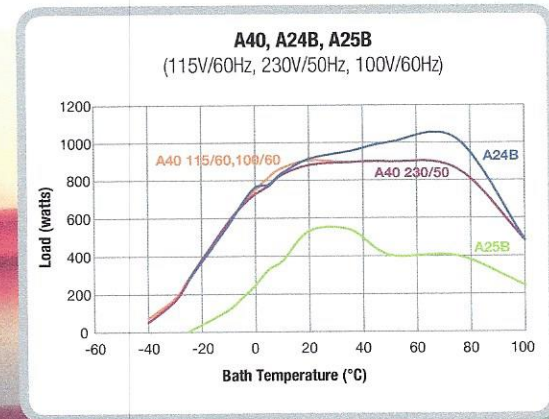
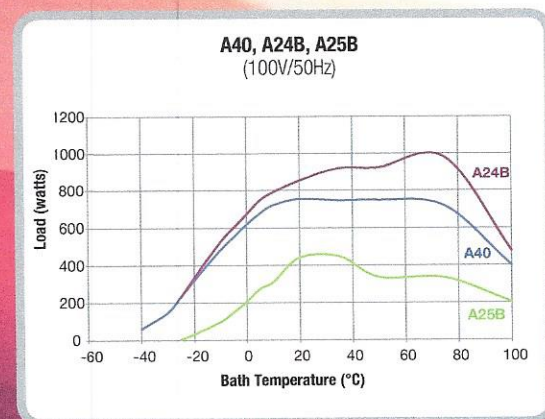
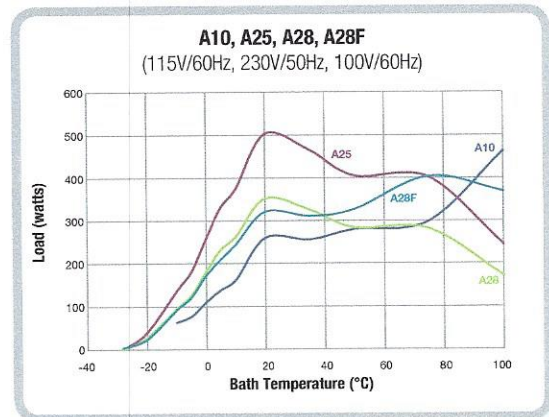
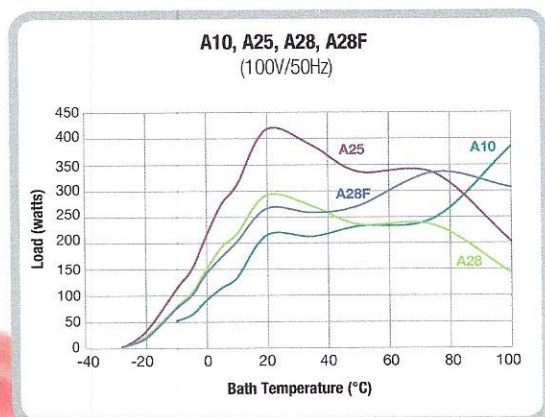
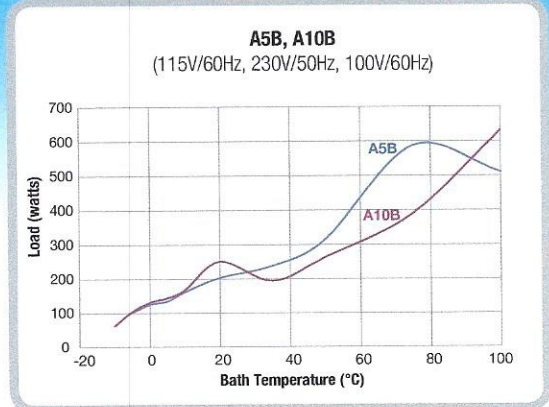
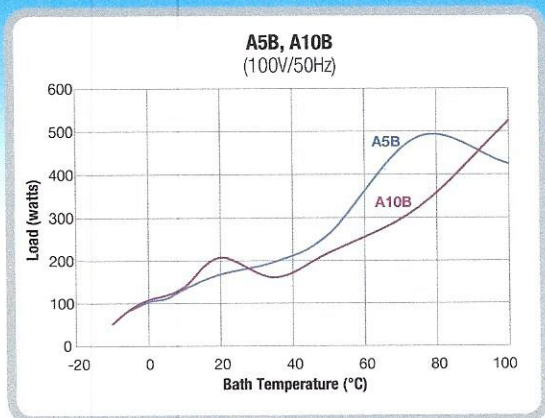
Ordering information:

Model	A28			A28F			A40		
Voltages (V/Hz)	115/60	230/50	100/50-60	115/60	230/50	100/50-60	115/60	230/50	100/50-60
SC100 plus Bath	1525288	1525281	1525286	1524288	1524281	1524286	—	—	—
SC150 plus Bath	1535288	1535281	1535286	1534288	1534281	1534286	1535408	1535401	1535406
SC150L plus Bath	1545288	1545281	1545286	1544288	1544281	1544286	1545408	1545401	1545406
AC150 plus Bath	1555288	1555281	1555286	1554288	1554281	1554286	1555408	1555401	1555406
AC200 plus Bath	1565288	1565281	1565286	1564288	1564281	1564286	1565408	1565401	1565406
PC200 plus Bath	1575288	1575281	1575286	1574288	1574281	1574286	1575408	1575401	1575406

*Fluid volume varies depending on the fluid used, temperature range, and items inserted in the reservoir.

Performance Curves for Refrigerated Baths and Circulators

Cooling Capacity

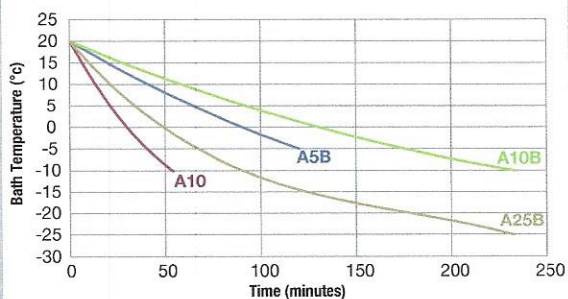


Performance Curves

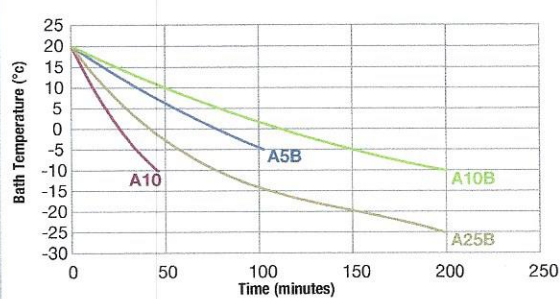
Performance Curves for Refrigerated Baths and Circulators

Time to Temperature – Cooling

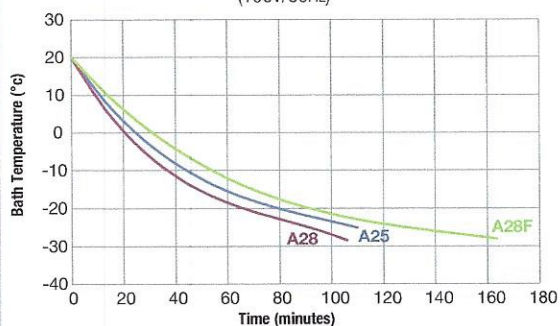
A5B, A10B, A10, A25B
(100V/50Hz)



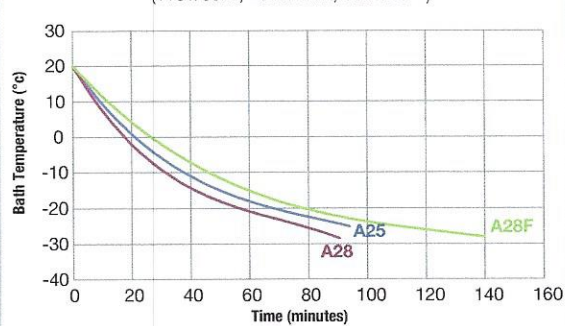
A5B, A10B, A10, A25B
(115V/60Hz, 230V/50Hz, 100V/60Hz)



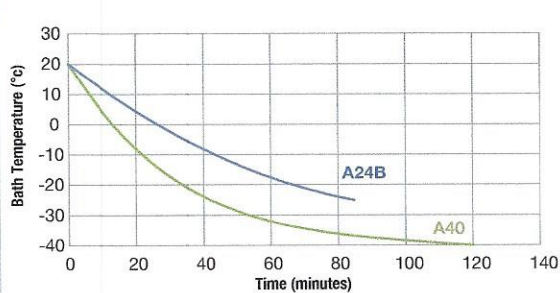
A25, A28, A28F
(100V/50Hz)



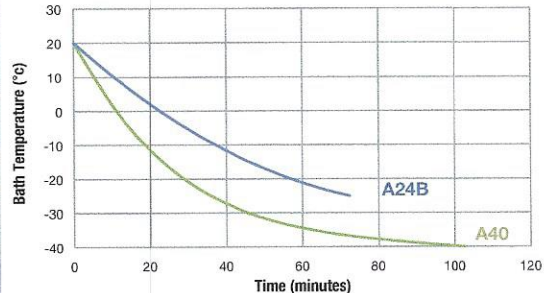
A25, A28, A28F
(115V/60Hz, 230V/50Hz, 100V/60Hz)



A24B, A40
(100V/50Hz)



A24B, A40
(115V/60Hz, 230V/50Hz)



Specifications obtained at sea level using water (above 5°C to 90°C) or a fluid with a specific heat of 2.3 kJ/kg-K or 0.55 Btu/lb-F (less than 5°C) as the recirculating fluid at a 20°C ambient condition, at nominal operating voltage. Other fluids, process temperatures, ambient temperatures, altitude or operating voltage will affect performance. Specifications are for reference only and are subject to change.