



Rheology Solutions

Rheology Solutions is the sole Australian distributor of this product range and we welcome the opportunity of discussing your application requirements.

*We hope the information you are seeking is contained within this file.
If you have any questions, or require further information please contact us.
We look forward to being of further service.*

Regards from the Team at Rheology Solutions.

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Thermo Scientific ARCTIC Series Refrigerated/Heated Bath Circulators

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

Superior cooling power, expansive temperature ranges, powerful force/suction pumps, and sophisticated digital control technology 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.
- Swap Program: in the event the controller fails, it can be exchanged for a new controller at no cost to you for the life of the warranty.
- The controller can be indexed 90° for easier viewing.



Typical applications:

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

Whats Included: Communication cables, bridge with gasket and thumbscrews, 8mm and 12mm hose barbs with clamps, external circulation plumbing, 6-ft. power cord, work area cover, 3-year warranty



Controller ▼	Bath ►	A10
SC100		-10 to 100°C
SC150		-10 to 100°C
SC150L		—
AC150		-10 to 100°C
AC200		-10 to 100°C
PC200		—
PC201		—
Cooling capacity at 20°C 230V/115V		240W
Maximum bath volume (liters)*		6
Work area (DxWxL) mm/in		150 x 136.7 x 123.5 / 5.9 x 5.4 x 4.9
Net weight (kg/lb)		27.5/60.6
Compliance		CE/ROHS/WEEE

Ordering information:

Model	A10		
Voltagess	115V/60Hz	230V/50Hz	100V/50-60Hz
SC100 plus Bath	152-5108	152-5101	152-5106
SC150 plus Bath	153-5108	153-5101	153-5106
SC150L plus Bath	—	—	—
AC150 plus Bath	155-5108	155-5101	155-5106
AC200 plus Bath	156-5108	156-5101	156-5106
PC200 plus Bath			

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

Bath Circulators

Useful Accessories:

- Displacement Bodies
- Auto-refill (AC200 and above)
- Trolley (A25, A28, and A40 only)
- External Temperature Probe (AC200 and above)
- Fluids

See page 20 for complete list of available accessories.



Designed with heated tank top to avoid ice build up.

A25	A28	A28F	A40
-25 to 100°C	-28 to 100°C	-28 to 100°C	—
-25 to 150°C	-28 to 150°C	-28 to 150°C	-28 to 150°C
-25 to 150°C	-28 to 150°C	-28 to 150°C	-28 to 150°C
-25 to 150°C	-28 to 150°C	-28 to 150°C	-28 to 150°C
-25 to 200°C	-28 to 200°C	-28 to 200°C	-40 to 200°C
-25 to 200°C	-28 to 200°C	-28 to 200°C	-40 to 200°C
—	—	—	—
500W	320W	320W	800W
12	10	10	12
204 x 173 x 183.7 / 8 x 6.8 x 7.2	204 x 173 x 129 / 8 x 6.8 x 5.1	204 x 173 x 129 / 8 x 6.8 x 5.1	204 x 173 x 183.7 / 8 x 6.8 x 7.2
36.1/79.5	36/79.1	35.6/78.3	55.2/121.5
CE/ROHS/WEEE	CE/ROHS/WEEE	CE/ROHS/WEEE	CE/ROHS/WEEE

A25			A28			A28F			A40		
115V/60Hz	230V/50Hz	100V/50-60Hz	115V/60Hz	230V/50Hz	100V/50-60Hz	115V/60Hz	230V/50Hz	100V/50-60Hz	115V/60Hz	230V/50Hz	100V/50-60Hz
152-5258	152-5251	152-5256	152-5288	152-5281	152-5286	152-4288	152-4281	152-4286	—	—	—
153-5258	153-5251	153-5256	153-5288	153-5281	153-5286	153-4288	153-4281	153-4286	153-5408	153-5401	153-5406
154-5258	154-5251	154-5256	154-5288	154-5281	154-5286	154-4288	154-4281	154-4286	154-5408	154-5401	154-5406
155-5258	155-5251	155-5256	156-5288	156-5281	156-5286	155-4288	155-4281	155-4286	155-5408	155-5401	155-5406
156-5258	156-5251	156-5256	155-5288	155-5281	155-5286	156-4288	156-4281	156-4286	156-5408	156-5401	156-5406
157-5258	157-5251	157-5256	157-5288	157-5281	157-5286	157-4288	157-4281	157-4286	157-5408	157-5401	157-5406

Large work area enables high throughput and work flow efficiency.

Stainless steel reservoir, offered in multiple capacities with a variety of reservoir openings and depth dimensions for maximum application flexibility.

- 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.
- Up to six different controller heads can be selected to best fit your application needs.
- The controller can be indexed 90° for easier viewing.
- Drain port at the front for operator convenience.



Typical applications:

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

What's Included: Communication cables, bridge with gasket and thumbscrews, 8mm and 12mm hose barbs with clamps, external circulation plumbing, 6-ft. power cord, A24B and A25B include the work area cover, 3-year warranty

Controller ▼	Bath ►
SC100	
SC150	
SC150L	
AC150	
AC200	
PC 200	
Cooling capacity at 20°C 230V/115V	
Maximum bath volume (liters)*	
Work area (DxWxL) mm/in	
Net weight (kg/lb)	
Compliance	

Ordering information:
Model
Voltages
SC100 plus Bath
SC150 plus Bath
SC150L plus Bath
AC150 plus Bath
AC200 plus Bath
PC200 plus Bath

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

Bath Circulators

Useful Accessories:

- Auto-refill (AC200 and above)
- External Temperature Probe (AC200 and above)
- Work Area Cover
- Lifting Platform
- Test Tube Racks
- Fluids

See page 20 for complete list of available accessories.

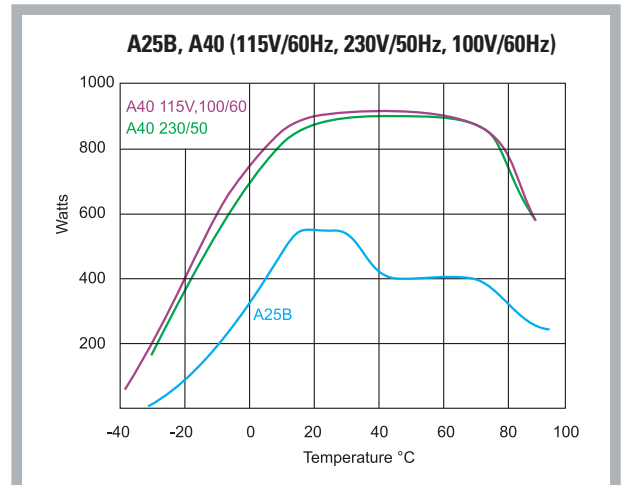
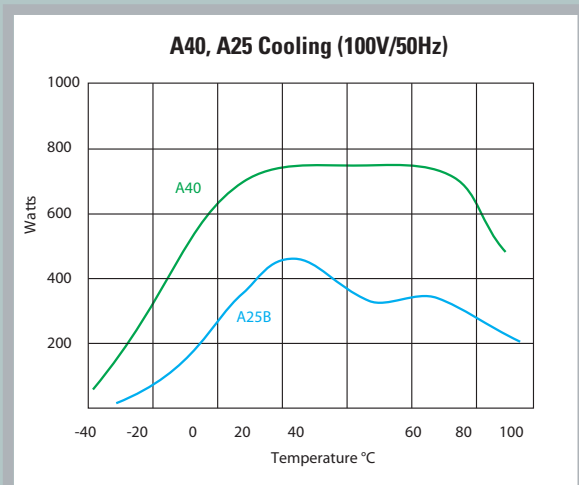
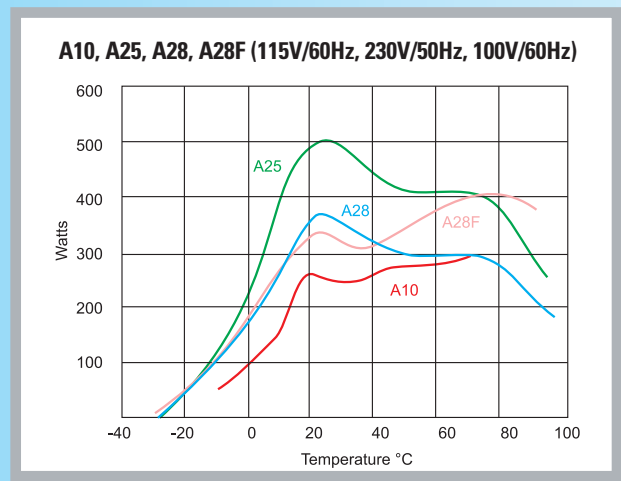
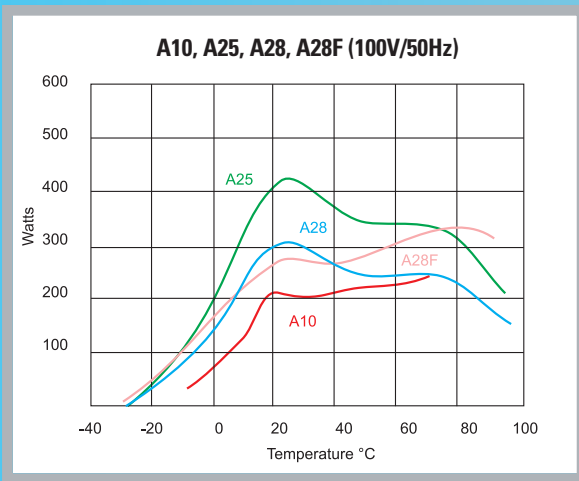
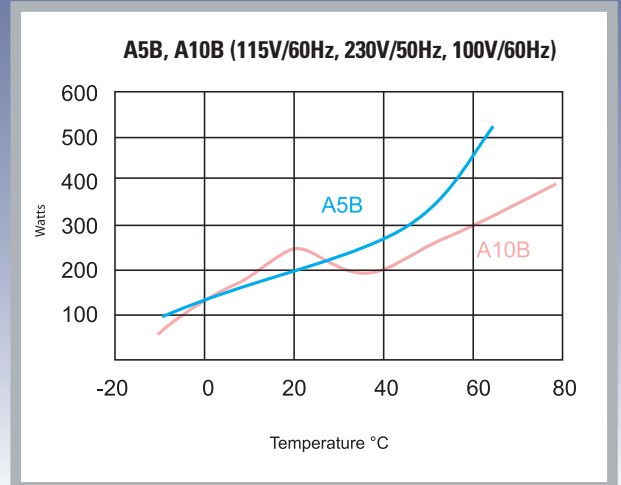
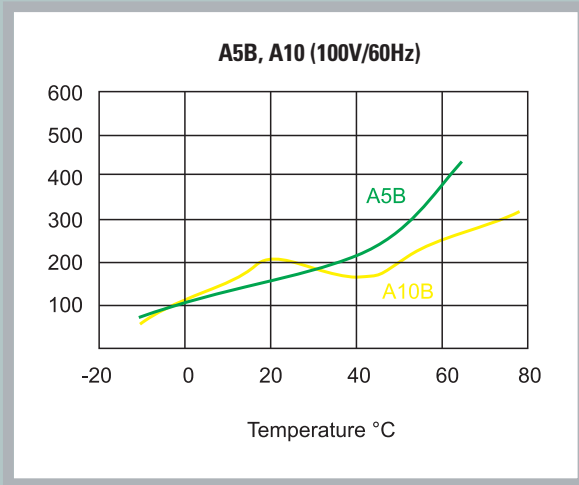


A5B			A10B			A24B			A25B		
-5 to 100°C			-10 to 100°C			-24 to 100°C			-25 to 100°C		
-5 to 100°C			-10 to 100°C			-24 to 150°C			-25 to 150°C		
—			—			-24 to 150°C			—		
-5 to 100°C			-10 to 100°C			-24 to 150°C			-25 to 150°C		
-5 to 100°C			-10 to 100°C			-24 to 200°C			-25 to 200°C		
—			—			-25 to 200°C			—		
200W			250W			700W			500W		
20			30			27			21		
200 x 297.2 x 190 / 7.9 x 11.7 x 7.5			200 x 297.2 x 365 / 7.9 x 11.7 x 13.4			200 x 297.2 x 313.4 / 8 x 11.7 x 12.3			233 x 223.8 x 243.8 / 9.2 x 8.8 x 9.6		
40/88.9			44.5/97.9			58.6/128.9			42.3/93.1		
CE/ROHS/WEEE			CE/ROHS/WEEE			CE/ROHS/WEEE			CE/ROHS/WEEE		

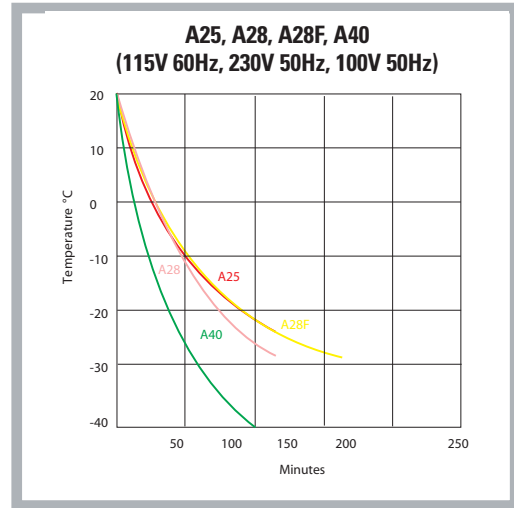
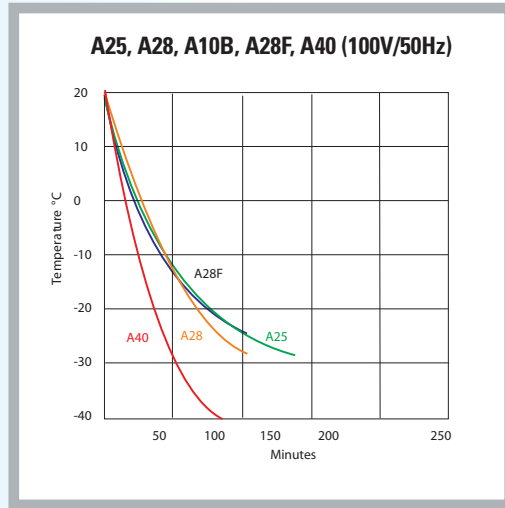
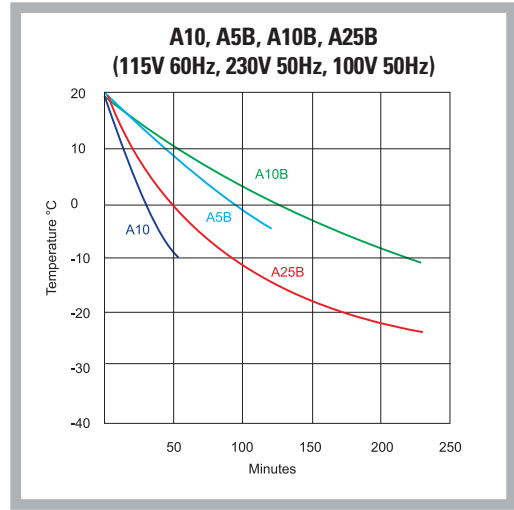
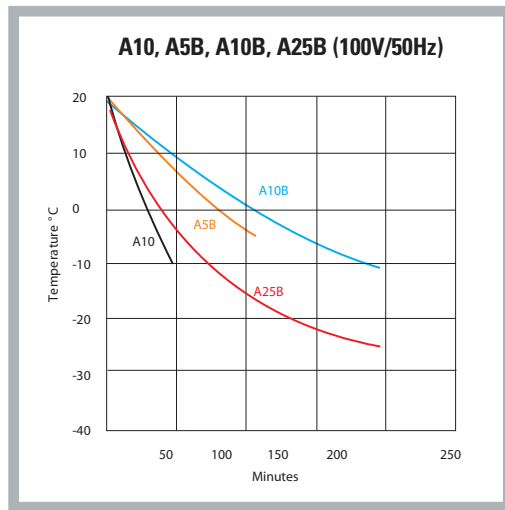
A5B			A10B			A24B			A25B		
115V/60Hz	230V/50Hz	100V/50-60Hz	115V/60Hz	230V/50Hz	100V/50-60Hz	115V/60Hz	230V/50Hz	100V/50-60Hz	115V/60Hz	230V/50Hz	100V/50-60Hz
152-4058	152-4051	152-4056	152-4108	152-4101	152-4106	152-4248	152-4241	152-4246	152-4258	152-4251	152-4256
153-4058	153-4051	153-4056	153-4108	153-4101	153-4106	153-4248	153-4241	153-4246	153-4258	153-4251	153-4256
—	—	—	—	—	—	154-4248	154-4241	154-4246	—	—	—
155-4058	155-4051	155-4056	155-4108	155-4101	155-4106	155-4248	155-4241	155-4246	155-4258	155-4251	155-4256
156-4058	156-4051	156-4056	156-4108	156-4101	156-4106	156-4248	156-4241	156-4246	156-4258	156-4251	156-4256
—	—	—	—	—	—	157-4248	157-4241	157-4246	—	—	—

Performance Curves for Refrigerated Baths and Circulators

Cooling Capacity



Time to Temperature



Specifications obtained at sea level using water (above +5°C to +90°C) or a fluid with a specificheat 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. Pump specifications are nominal values of ±10%. Specifications are for reference only and are subject to change.

Performance Curves