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Air Coolers

	Heat Removal (Watts), ΔT=0 °C, 35 °C Ambient	Heat Removal (Watts), ΔT=0 °C, 25 °C Ambient	Operating Voltage (V)	Operating Current (Amps), Typical	Operating TE Current (Amps), Maximum	Internal Fan Current (Amps)	External Fan Current (Amps)	Terminal Block Location (External/Internal)	Overall Dimensions (mm), length X width X height	Can be Customized with Large Orders	Can be Used for Cooling and Heating	NEMA Rating Maintained	Weight (Kg)	Heat Sink Airflow Parallel/Vertical	External Fan Noise (dBA)	TC-24-10	TC-36-25 RS485	TC-36-25 RS232 Series	TC-48-20 OEM	TC-48-20	TC-720 OEM	TC-720	PS-12-8.4A	PS-24-6.5	PS-24-12.5	PS-24-25	PS-48-10
AC-027	25	24	12	4.6	5.6	0.24	0.58	E	127 X 152 X 176	•	•	12	1.8	V	44	•	•	•	•	•	•	•	•				
AC-046	44	42	24	4.5	5.4	0.14	0.34	E	127 X 178 X 176	•	•	12	2.5	V	44	•	•	•	•	•	•	•		•			
AC-053	53	51	24	4.6	5.6	0.16	0.23	E	198 X 194 X 210	•	•	12	2.9	P	42	•	•	•	•	•	•	•		•			
AC-055	58	55	12	5.6	7.28	0.19	0.40	I	203 X 127 X 152	•	•	4	2.7	V	45	•	•	•	•	•	•	•	•				
AC-073	67	63	24	9.0	10.8	0.17	0.50	E	203 X 130 X 205	•	•	12	3.6	V	47		•	•	•	•	•	•			•		
AC-140	141	139	24	4.7	6.9	0.22	1.0	I	259 X 176 X 258	•	•	4	7.8	V	55	•	•	•	•	•	•	•		•			
AC-162	165	159	24	14.1	17.1	0.22	1.0	E	254 X 176 X 257	•	•	12	7.8	V	55		•	•	•	•	•	•				•	
AC-194	197	185	48	7.7	9.5	0.14	0.5	I	259 X 176 X 259	•	•	4	7.8	V	55				•	•							•
AC-220	216	209	24	14.8	19.7	0.21	1.5	I	350 X 150 X 185	•	•	4	6.3	V	64		•	•	•	•	•	•				•	
	Specifications															**Temperature Controllers**							**Power Supplies**				

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*Requires bipolar (heat/cool) controller.

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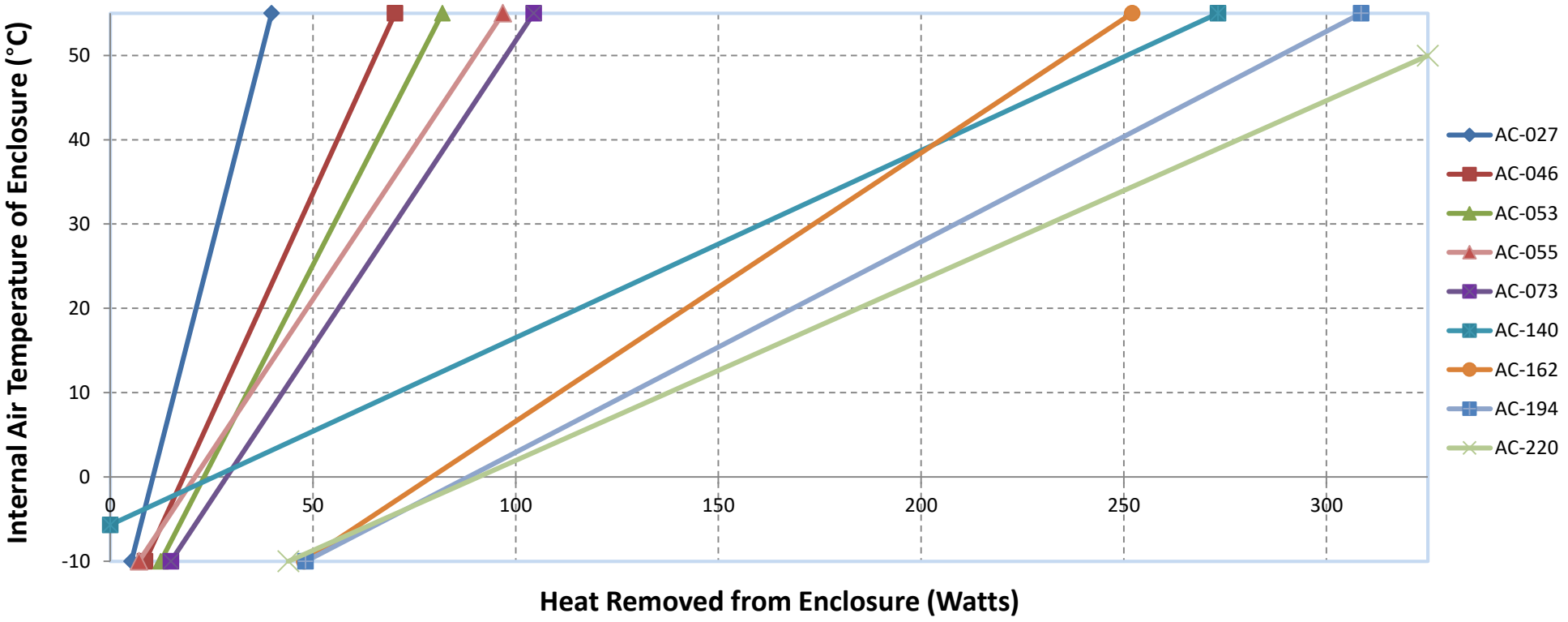
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Air Cooler Performance in a 25 °C Ambient Environment



How to use the Performance Graph:

1. Select Performance Line.

The diagonal lines shown represent cooling performance at the indicated ambient air temperature. Performance lines at other ambient temperatures can be seen on the data sheet for each specific cooler.

2. Select Desired Temperature.

Draw a horizontal line on the graph corresponding to your desired enclosure temperature until it intersects with the performance line corresponding to the ambient temperature at which the cooler is to operate.

NOTE: heating performance is not shown. Contact TE Technology, Inc. if you require this information.

3. Determine Cooling Capacity.

The maximum amount of heat that the cooler can remove is determined by the intersection point (determined in the previous step).

If the heat load exceeds the cooling capacity, then the cooler will not be able to maintain the desired temperature. If the heat load is less, then the cooler can operate with less input power.

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Cold Plate Coolers

	Specifications													Temperature Controllers							Power Supplies			
	Heat Pumping (Watts), 35 °C Ambient ΔT=0 °C,	Heat Pumping (Watts), 25 °C Ambient ΔT=0 °C,	Operating Voltage (Volts)	Operating Current (Amps), Typical	Operating TE Current (Amps), Maximum	Hot-side Fan Current (Amps)	Overall Dimensions (mm) length X width X height	Can be Customized with Large Orders	Can be Used for Cooling and Heating	Weight (Kg)	Heat Sink Airflow Parallel/Vertical	External Fan Noise (dBA)	TC-24-10	TC-36-25 RS485	TC-36-25 RS232 Series	TC-48-20 OEM	TC-48-20	TC-720 OEM	TC-720	PS-12-8.4A	PS-24-6.5	PS-24-12.5	PS-24-25
CP-031	30	28	12	4.5	5.5	0.24	102 X 80 X 91	•	•	0.9	V	35	•	•	•	•	•	•	•	•			
CP-031HT	30	28	12	4.5	5.5	0.24	102 X 80 X 91	•	•	0.9	V	35	•	•	•	•	•	•	•	•			
CP-036	33	32	12	4.7	5.7	0.58	152 X 127 X 114	•	•	1.8	V	44	•	•	•	•	•	•	•	•			
CP-036HT	32	31	12	4.7	5.7	0.58	152 X 127 X 114	•	•	1.8	V	44	•	•	•	•	•	•	•	•			
CP-040HT	41	40	24	2.7	3.3	0.24	140 X 67 X 89	•	•	0.8	V	47	•	•	•	•	•	•	•		•		
CP-061	65	62	24	4.6	5.7	0.23	198 X 194 X 127	•	•	2.3	P	39	•	•	•	•	•	•	•		•		
CP-061HT	59	56	24	4.5	5.4	0.23	198 X 194 X 127	•	•	2.3	P	39	•	•	•	•	•	•	•		•		
CP-065	60	57	24	4.5	5.5	0.34	178 X 127 X 114	•	•	2.2	V	44	•	•	•	•	•	•	•		•		
CP-110	105	101	24	9.0	10.9	0.50	203 X 130 X 140	•	•	3.0	V	47		•	•	•	•	•	•			•	
CP-121	128	123	24	9.2	11.1	0.46	198 X 188 X 119	•	•	4.2	P	42		•	•	•	•	•	•			•	
CP-200	206	198	24	14.1	17.3	1.00	254 X 176 X 165	•	•	6.3	V	55		•	•	•	•	•	•				•
CP-200HT	204	196	24	14.1	17.4	1.00	254 X 176 X 165	•	•	6.3	V	55		•	•	•	•	•	•				•
CP-200HTTT	204	196	24	14.1	17.4	1.00	254 X 176 X 206	•	•	6.7	V	55		•	•	•	•	•	•				•
CP-200TT	206	198	24	14.1	17.3	1.00	254 X 176 X 206	•	•	6.7	V	55		•	•	•	•	•	•				•

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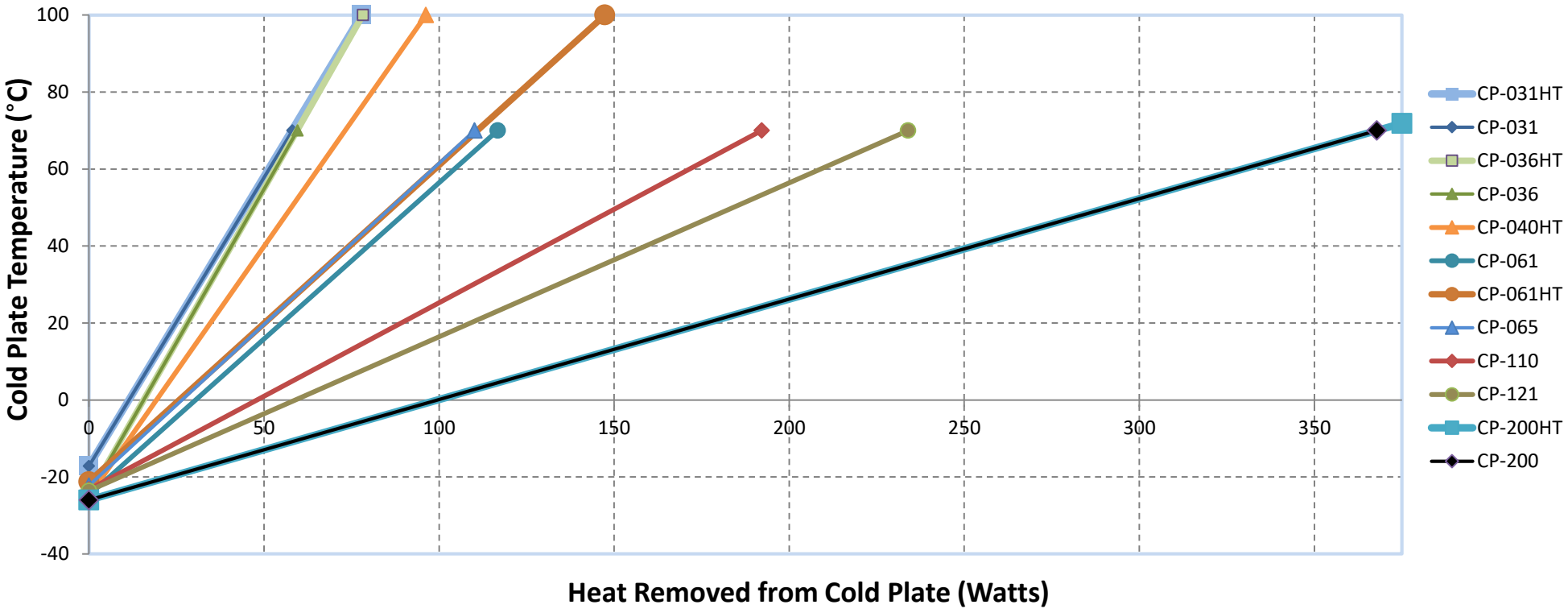
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*Requires bipolar (heat/cool) controller.

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Cold Plate Cooler Performance in a 25 °C Ambient Environment



How to use the Performance Graph:

1. Select Performance Line.

The diagonal lines shown represent cooling performance at the indicated ambient air temperature. Performance lines at other ambient temperatures can be seen on the data sheet for each specific cooler.

2. Select Desired Temperature.

Draw a horizontal line on the graph corresponding to your desired enclosure temperature until it intersects with the performance line corresponding to the ambient temperature at which the cooler is to operate.

NOTE: heating performance is not shown. Contact TE Technology, Inc. if you require this information.

3. Determine Cooling Capacity.

The maximum amount of heat that the cooler can remove is determined by the intersection point (determined in the previous step).

If the heat load exceeds the cooling capacity, then the cooler will not be able to maintain the desired temperature. If the heat load is less, then the cooler can operate with less input power.

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Liquid Coolers

	Heat Pumping (Watts), 35 °C Inlet Water Temperature, ΔT=0 °C,	Heat Pumping (Watts), 25 °C Inlet Water Temperature, ΔT=0 °C,	Operating Voltage (Volts)	Operating Current (Amps), Typical	Operating TE Current (Amps), Maximum	Hot-side Fan Current (I)	Overall Dimensions (mm), length X width X height	Can be Customized with Large Orders	Can be Used for Cooling and Heating *	Weight (Kg)	Heat Sink Airflow Parallel/Vertical	External Fan Noise (dBA)	TC-24-10	TC-36-25 RS485	TC-36-25 RS232 Series	TC-48-20 OEM	TC-48-20	TC-720 OEM	TC-720	PS-12-8.4A	PS-24-6.5	PS-24-12.5	PS-24-25
LC-061	56	54	24	4.5	5.5	0.34	178 X 127 X 97	•	•	2.0	V	44	•	•	•	•	•	•	•		•		
LC-200	192	185	24	14.1	17.3	1.00	254 X 176 X 155	•	•	5.8	V	55		•	•	•	•	•	•				•
CP-061 + SSX1	62	58	24	4.6	4.7	0.23	198 X 194 X 139	•	•	2.7	P	39	•	•	•	•	•	•	•		•		
CP-065 + SSX1	57	53	24	4.5	5.5	0.34	178 X 127 X 127	•	•	2.7	V	44	•	•	•	•	•	•	•		•		
CP-110 + SSX1	99	104	24	9.0	10.9	0.50	203 X 130 X 153	•	•	3.4	V	47		•	•	•	•	•	•			•	
CP-121 + SSX1	118	113	24	9.2	11.1	0.46	198 X 188 X 136	•	•	4.6	P	42		•	•	•	•	•	•			•	
CP-200 + SSX1	183	176	24	14.1	17.4	1.00	254 X 176 X 178	•	•	6.7	V	55		•	•	•	•	•	•				•
CP-200 + 2 SSX1's	193	185	24	14.1	17.4	1.00	254 X 176 X 178	•	•	7.1	V	55		•	•	•	•	•	•				•
	Specifications												Temperature Controllers							Power Supplies			

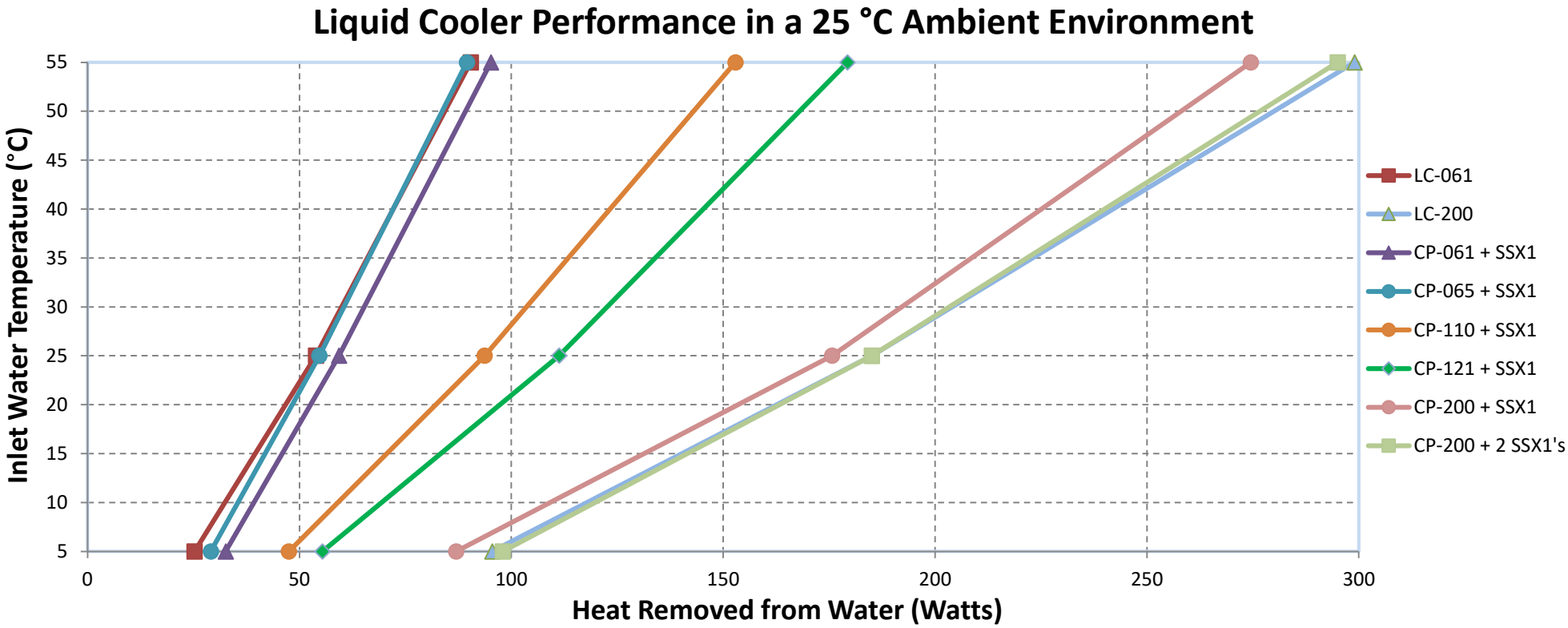
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How to use the Performance Graph:

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2. Select Desired Temperature.

Draw a horizontal line on the graph corresponding to your desired enclosure temperature until it intersects with the performance line corresponding to the ambient temperature at which the cooler is to operate.

NOTE: heating performance is not shown. Contact TE Technology, Inc. if you require this information.

3. Determine Cooling Capacity.

The maximum amount of heat that the cooler can remove is determined by the intersection point (determined in the previous step).

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Temperature Controllers

	Maximum Input Voltage (V)	Maximum Output Current (Thermoelectric/Peltier)	PWM Output Frequency (Hz)	PWM Output	Temperature Resolution	Output Power Resolution	Signal Level Analog Output	Cool or Heat Control Only	Bipolar Cool and Heat Control	Communication	Ramp/Soak Capability	Optional Second Thermistor Input (for Alarm/Data)	Number of Alarm Signals	Maximum Alarm Current	Over current Protection	Fan Speed Control	Display & Keyboard (Integrated)	Display & Keyboard (Optional)	Thermistor Compatibility	Software Source Code Available	Energy-Saving Control Mode for Air Coolers	Product Marking
TC-24-10	26	10	1000	•	0.1	50 steps		•											15K			
TC-36-25 RS485	36	25	2700	•	0.01 °C	512 steps			•	RS485		•	3	25 mA	•			•	5K, 10K, 15K, 50K, 230K	•		
TC-36-25 RS232	36	25	2700	•	0.01 °C	512 steps			•	RS232		•	3	25 mA	•			•	5K, 10K, 15K, 50K, 230K	•		
TC-36-25 RS232-UL	36	25	2700	•	0.01 °C	512 steps			•	RS232		•	3	25 mA	•			•	5K, 10K, 15K, 50K, 230K	•		CE Marked; MET-Labs Listed
TC-48-20 OEM	50	20	337	•	0.1 °C	512 steps	0 - 5 VDC	•		RS232		•	2	1 A					10K, 15K	•		
TC-48-20	50	20	337	•	0.1 °C	512 steps	0 - 5 VDC	•		RS232		•	2	1 A			•		10K, 15K	•		
TC-720 OEM	36	20	337	•	0.01 °C	512 steps	0 - 10 VDC		•	USB	•	•	2	2 A	•	•			5K, 10K-1, 10K-2, 15K, 50K, 230K, user	•	•	
TC-720	36	20	337	•	0.01 °C	512 steps	0 - 10 VDC		•	USB	•	•	2	2 A	•	•	•		5K, 10K-1, 10K-2, 15K, 50K, 230K, user	•	•	

Control Range for Thermistors	
5K	-60 °C to 70 °C *
10K	-20 °C to 85 °C
15K	-20 °C to 100 °C
50K	0°C to 150 °C
230K	25 °C to 199 °C

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* Control range is -40 °C to +199 °C on TC-720 controllers with firmware revision J or older.

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