

ThermaTEC™ Thermoelectric Cooler

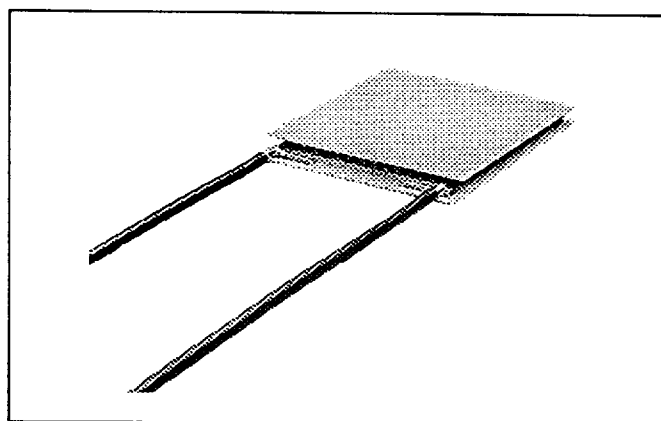
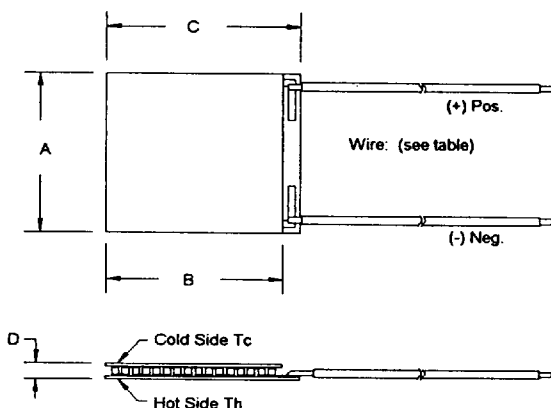
Data Sheet

Melcor's ThermaTEC™ series offers high-temperature operation at **+200°C**. ThermaTEC is ideal for the most demanding cooling and heating applications and offers power generation capabilities. The series includes ThermaTEC versions of our most popular TECs, covering a full range of size, power and heat pumping capacities.

Some of the features of the ThermaTEC™ series thermoelectric cooler

- Melcor quality
- Operates at +200°C
- Designed for 12 volt DC operation
- Superior cycling capabilities
- Affordable
- Interface material: Aluminum Oxide
- Solid-state reliability
- Porch style for improved lead wire strength

Mechanical Characteristics



MADE IN THE USA

Performance Characteristics

Model	Th = 25°C				Th = 125°C				Th = 200°C			
	I _{max}	Q _{max}	V _{max}	ΔT _{max}	I _{max}	Q _{max}	V _{max}	ΔT _{max}	I _{max}	Q _{max}	V _{max}	ΔT _{max}
HT 2-12-30	2.3	20	14.4	63	2.1	23	19.7	78	1.9	22	21.6	68
HT 3-12-30	2.8	24	14.4	63	2.6	28	19.7	78	2.4	27	21.6	68
HT 4-12-30	3.9	33	14.4	63	3.6	39	19.7	78	3.3	38	21.6	68
HT 4-7-30	3.7	18.5	8.1	64	3.4	21	11.0	80	3.2	21	12.1	70
HT 4-12-40	3.7	32	14.4	64	3.4	38	19.7	80	3.2	37	21.6	70
HT 6-7-30	6.0	28.5	8.1	63	5.5	33.5	11.0	78	5.1	33	12.1	68
HT 6-12-40	6.0	51	14.4	63	5.5	60	19.7	78	5.1	59	21.6	68

Model	Dimensions (mm)				Wire
	A	B	C	D	
HT 2-12-30	30	30	34	3.7	152mm (6.0") Teflon Insulated 24 AWG
HT 3-12-30	30	30	34	3.4	24 AWG
HT 4-12-30	30	30	34	3.4	24 AWG
HT 4-7-30	30	30	34	4.2	18 AWG
HT 4-12-40	40	40	44	4.2	18 AWG
HT 6-7-30	30	30	34	3.9	18 AWG
HT 6-12-40	40	40	44	3.9	18 AWG

Melcor Quality Pledge

We pledge to our customers and to ourselves to make our products and services the standard of excellence around the globe. The results of our efforts are products and services that meet or exceed our customer's standards for performance, delivery, reliability, and value.
Maximum Temperature: +235°C

"Uses for MELCOR Thermoelectrics are as Limitless as the Imagination"

1040 Spruce Street * Trenton, NJ 08648 * USA * 609-393-4178 * Fax: 609-393-9461

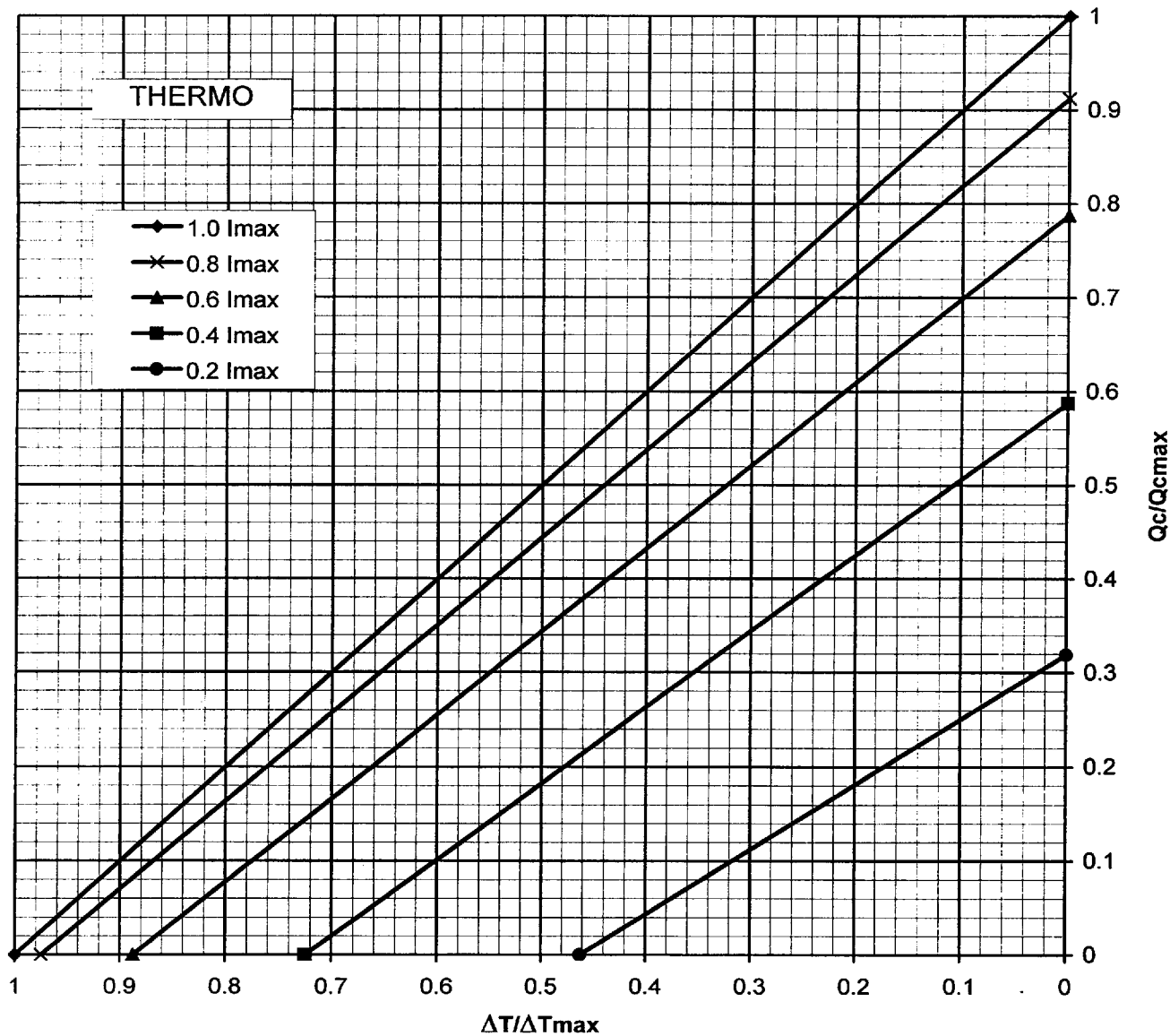
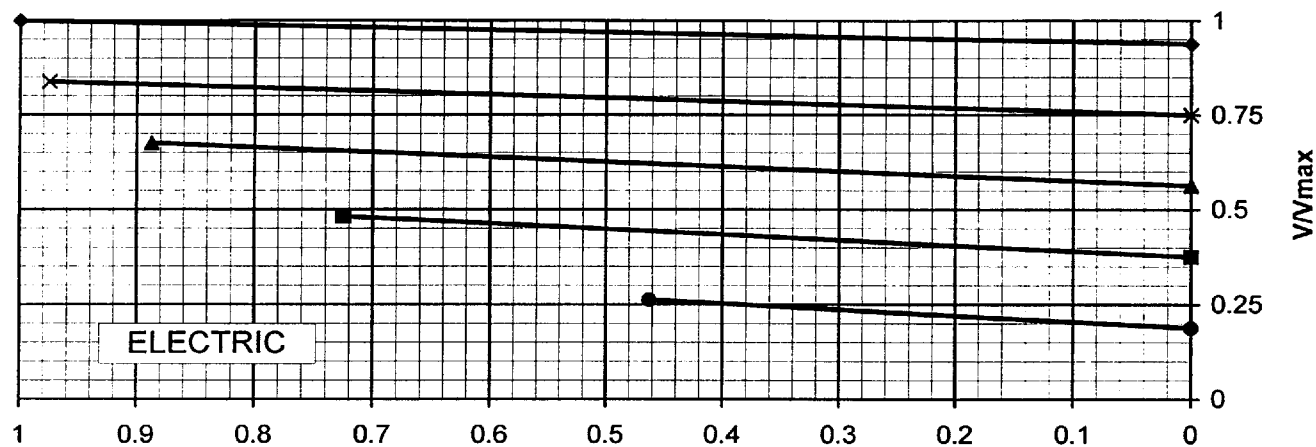
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Universal Performance Graph



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