

# Cooling Solutions for Amusement Park Applications

## EIC Solutions – The Leader in Thermoelectric Cooling Technology for Electronic Enclosures

Whether protecting sensitive ride controls, or expensive sound and lighting equipment, **our products keep your equipment running by controlling the temperature of critical electronics which:**

- Eliminates heat-related failures and shutdowns;
- Extends the life of critical electronics; and
- Reduces costly downtime.

For existing enclosures, EIC will:

- Calculate cooling requirements;
- Recommend the right air conditioner; and
- Configure mounting for easy implementation.

For new installations, EIC will:

- Help you select the perfect solution from our many standard enclosures and air conditioners;
- Design a custom enclosure engineered for your application; and
- Size the proper air conditioner to maintain your electronics at the right temperature.



*Protector™  
Air Conditioned Enclosures*

## Key Features of EIC Products Include:

- **Outdoor Rating:** All of our thermoelectric coolers are rated for outdoor use and can withstand harsh environments including high humidity, rain and extreme heat.
- **No Maintenance:** No filter to clean, drain, or change, and no refrigerant to recharge. The only moving parts are the fans.
- **Temperature Control and Stability:** Effective cooling below ambient temperatures with options for precise temperature control to within  $\pm 0.5^{\circ}\text{C}$ .
- **High Operating Temperatures:** Standard units operate in environments as hot as  $140^{\circ}\text{F}/60^{\circ}\text{C}$  with custom models available up to  $170^{\circ}\text{F}/77^{\circ}\text{C}$ .
- **Multiple Power Options:** Offered in a wide range of AC and DC input voltages with the ability to operate on “dirty power”. Perfect for environments that operate using mobile generators.
- **Reliable:** Typical MTBF of 150,000 hours.
- **Environmentally Friendly:** Uses no CFCs, HCFC, other chemicals or oil.
- **Flexible and Portable:** Standard units can operate in motion and are portable. Products can also be mounted in multiple orientations.
- **Domestic Manufacturing:** Made in the USA.

**EIC SOLUTIONS**

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## Meeting the Cooling Needs of the Amusement and Theme Park Industries

We meet the needs of amusement and theme parks by providing secure housings that are environmentally controlled using thermoelectric air conditioning. Our thermoelectric air coolers are designed to withstand the extreme conditions normally found during a park's peak season. Since our air conditioners require no maintenance, they can be installed in most any location where failure is not an option.

From the wettest water park attraction to the highest roller coaster on the hottest day in the summer, thermoelectric cooling technology from EIC Solutions protects the sensitive controls and power systems that keep your attractions running and your park safe.

EIC's products can be found in many amusement parks with applications including:

- Ride Controls
- Back-up Power Systems, UPS, and Generators
- Sound and Light Equipment
- Drives and Automation Controls
- Ticket Vending Machines
- Audio and Video Systems
- Digital Signage
- Network and Communications Gear
- Security Cameras and Systems



*ThermoTEC™  
Thermoelectric Air Conditioner*

### A Wide Range of Configurations

Since 1988, our patented, solid-state, thermoelectric air conditioning technology has protected sensitive electronics from heat, dust, moisture, corrosion, and the elements. We offer more standard and custom configurations than any other manufacturer including NEMA rated and CE certified units. EIC's products have integral power supplies, adjustable temperature control, no maintenance, and exceptionally long life cycles.

With rugged stainless steel construction, reliable performance and flexibility these advanced thermoelectric systems offer reduced equipment size, weight, and power with improved cooling, corrosion resistance and hazardous location protection.

The compact size, weight, and ease of installation of our thermoelectric air conditioners allow them to fit a wide range of existing enclosures. EIC can also provide a complete air conditioned enclosure or case package. We have a large catalog of standard enclosure and case configurations as well as the capability to build custom designs to meet the needs of your specific project.

Whether the application requires an off-the-shelf or custom system, EIC's engineers will help find the solution to best meet your electronics protection requirements.

Please visit [www.eicsolutions.com](http://www.eicsolutions.com) for products, specifications, and technical data. Our online Request for Quote (RFQ) is available 24/7.

To speak directly with a Sales Engineer or ask technical questions, please call 1-800-497-4524.