

# Cooling Solutions for Mass Transit Applications



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

EIC has worked with state and local transit authorities, their contractors and system integrators, to provide products that withstand extreme conditions such as vibration from passing trains or particulates like brake dust in subway tunnels. EIC products protect and control the temperature of your critical electronics keeping your systems up and running which:

- Eliminates heat-related failure and shutdown;
- 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:

- **No Maintenance:** No filter to clean, drain, or change, and no refrigerant to recharge. The only moving parts are the fans.
- **High operating temperatures:** Standard units operate in environments as hot as 140°F/60°C with custom models available up to 170°F/77°C.
- **Outdoor Rating:** All of our thermoelectric coolers are rated for outdoor use and can withstand harsh environments including excessive rain and extreme heat.
- **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.
- **Temperature Control and Stability:** Effective cooling below ambient temperatures with options for precise temperature control to within  $\pm 0.5^\circ\text{C}$ .
- **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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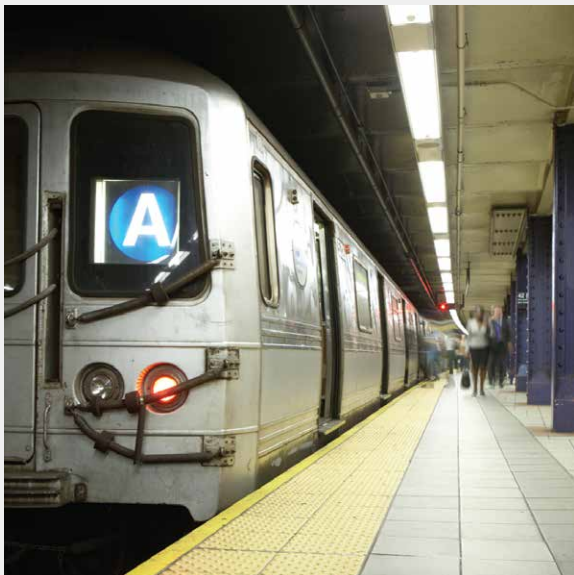
[www.eicsolutions.com](http://www.eicsolutions.com)

## Meeting the Cooling Needs of the Mass Transit Industry

We meet the needs of mass transit applications by providing secure housings that are environmentally controlled using thermoelectric air conditioning. Our thermoelectric coolers and enclosures are designed to withstand extreme conditions such as high ambient temperatures, dust, vibration, high humidity, rain, snow and ice. Since our air conditioners have extremely long life cycles and require no maintenance, they are ideal for applications where failure is not an option.

From the harshest outdoor applications including rain, snow and ice to equally extreme dusty, hot underground environments, thermoelectric cooling technology from EIC Solutions protects the sensitive control and monitoring electronics that keep your equipment up and running. EIC's products can be found protecting a wide range of Mass Transit equipment such as:

- Operation Critical RF Components
- Digital Signage
- Ticket Vending Machines
- Communications Gear
- Security Cameras, Systems and Monitors
- Monitoring and Signaling



*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.