

Cooling Solutions for Oil and Gas Applications



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

Whether protecting upstream exploration and drilling controls, or downstream refining and distribution 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:

- **Hazardous Area Certification:** Class 1, Division 2, Groups A-D Certification (purged or non-purged).
- **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 applications 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 Oil and Gas Industry

We meet the needs of oil and gas exploration, production, refining and distribution companies by providing secure housings that are environmentally controlled using thermoelectric air conditioning. Our thermoelectric coolers are designed to be subjected to extreme conditions. Requiring no maintenance, they are ideal for installation in remote locations where failure is not an option.

From the harshest exploratory outposts to equally extreme production environments, on land or out at sea, thermoelectric cooling technology from EIC Solutions protects the sensitive control and monitoring electronics that keep oil and gas flowing.

EIC's products can be found in many oil, gas and petrochemical related applications, including:

- Blenders and Mixers
- Data Acquisition Equipment
- Drilling Rigs and Modules
- Generator Sets, Power Supplies and Distribution Equipment
- Sensors, Valves and Actuators
- Intrinsically Safe Barriers
- Network and Communications Gear
- Oil Water Analyzers and Water Cut Meters
- Security Cameras and Systems
- Pump Controls, PLCs and Touch Screens



*ThermoTEC™ Class1, Div. 2
Thermoelectric Air Conditioners*

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, Class 1 Div. 2, MIL Spec, 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 multiple input voltages 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 multiple mounting options of our coolers allow them to be easily integrated into 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 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.