

LOCOMOTIVE & RAILROAD EQUIPMENT HEATERS

Railmark Holdings, Inc. introduces the RailHeat™ family of advanced, cost effective electrical heating products designed for the railroad industry. No longer do you need expensive fuel-based APUs, high powered electrical APUs, or steam coils to warm up or maintain operating temperature. RailHeat products also protect signal boxes, crossing gate controls and other devices that need protection from freezing. RailHeat technology utilizes a flexible polymeric fabric with electrical current-carrying carbon threads to provide nearly instant-on heating at substantially lower installation and operating costs than traditional heating methods.

Railmark's heating products are designed to integrate directly into your equipment during production or refurbishment, added as part of an aftermarket solution, or used whenever needed in a portable configuration. Products are designed to customer specifications as heated thermal mats, covers, and panels for locomotive engine compartments and cabs, external piping, rolling stock, MOW equipment, and other railroad hardware. RailHeat's thermal mats, covers and panels are lightweight, easy to store, and depending on the design, wear-resistant, fluid-resistant and waterproof. Carry bags are provided for easy and convenient transportation of mats and covers for outdoor and temporary applications.

Applications

- Locomotive cabs
- Engine compartments
- Generator cars
- MOW equipment
- Locomotive piping
- Railcar piping
- Heated tank & box cars
- Passenger cars
- Signal boxes & crossing gates
- Sheds
- Temporary work shelters
- De-icing



The RailHeat technology is based on seventeen years of experience designing and manufacturing highly specialized breakthrough heating products for aerospace, oil and gas, construction and aviation industries. RailHeat products are shown to work for up to 50,000 hours non-stop under temperatures as low as minus eighty-five degrees Fahrenheit.



RAILHEAT™

PRODUCT INFORMATION

Technical Specifications

- Heating temperature range: 86°F to 482°F (30°C to 250°C)
- External temperature range: -85°F to 482°F (-65°C to 250°C)
- Temperature control: preset or user-controlled
- Heating time: reaches required temperature within 5 minutes
- Input electric power range: 12V, 24V, 36V DC and 100V, 120V, 220V, 380V, 460V AC
- Heating capacity: 19 to 280 Watts/ft² (200 to 3,000 Watts/m²)
- Efficiency of converting electrical power to heat: up to 95%
- Fluid resistance: Fluid-resistant & waterproof, depending on design.

Product Styles

Flexible fabric style

Various custom thicknesses and configurations are available for applications such as thermal blankets, heated equipment covers, pipeline covers, under-floor mats, seating, and underlayments.

Fiberglass-reinforced style

Various custom thicknesses and sizes are available for applications such as heated floor panels, heated wall panels, and liquid and solid transport container heating.

- Width: 3.9 in. to 31.5 in. (100 mm to 800 mm)
- Length: 3.9 in. to 47.2 in. (100 mm to 1200 mm)
- Thickness: 0.02 in. to 0.16 in (0.5 mm to 4.0 mm)



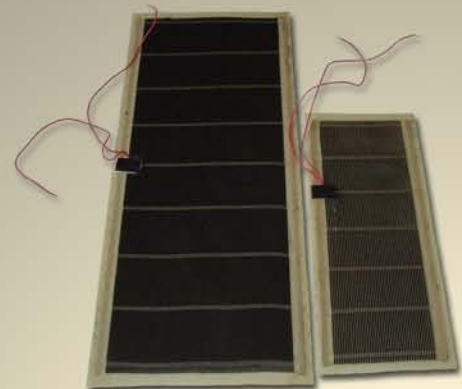
Flexible thermal blanket for wrapping pipes and warming engine compartments



Custom shell for heating ground-based equipment



Locomotive cab using RailHeat technology heating panels in interior walls



Reinforced panels for heating locomotive cab and passenger compartment

RAILMARK

840 North Pontiac Trail
Walled Lake, Michigan 48390 USA
Tel (248) 960-9950
www.railmark.com