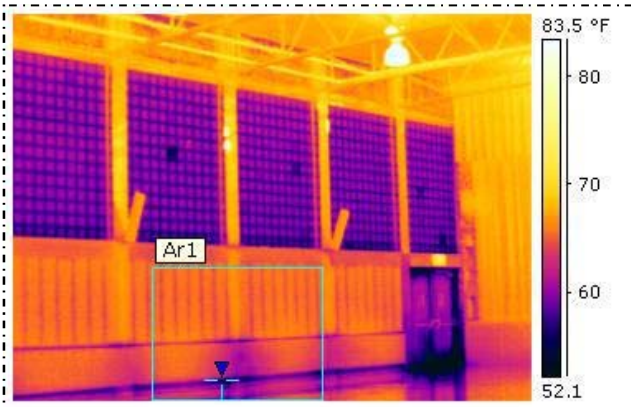
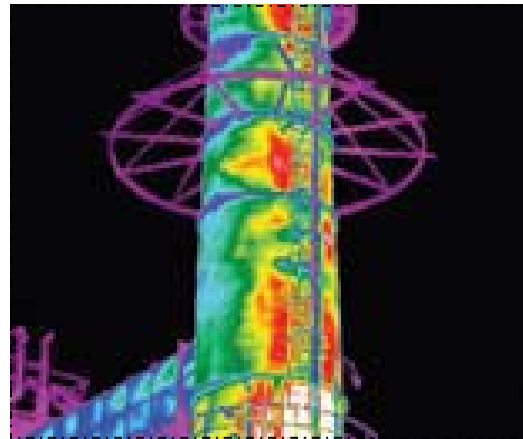


THERMOGRAPHIC STUDIES AND SERVICES FOR FACILITIES, SYSTEMS, AND ENERGY PERFORMANCE EVALUATIONS

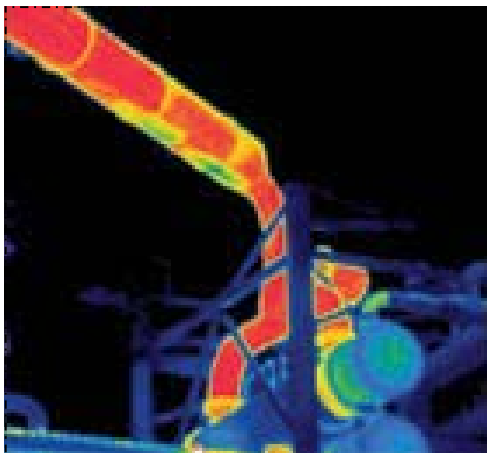
Building "Envelope"



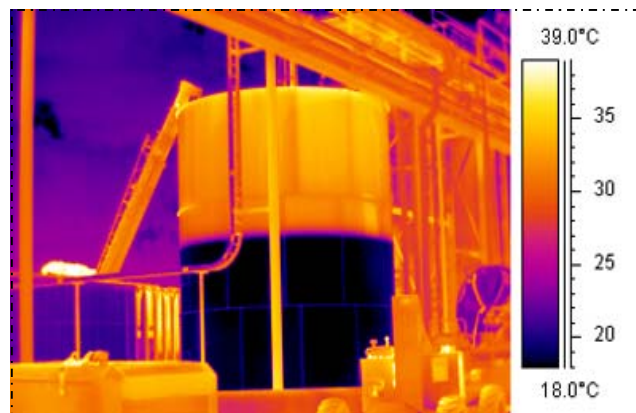
Plant Operations



Heating, Ventilating, and Air Conditioning; Electrical & Plumbing Systems

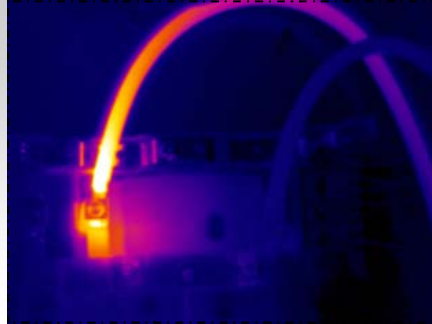
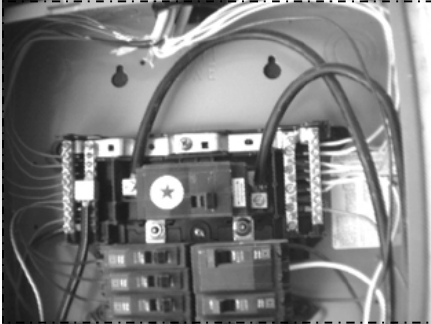


Facilities Audits & Studies

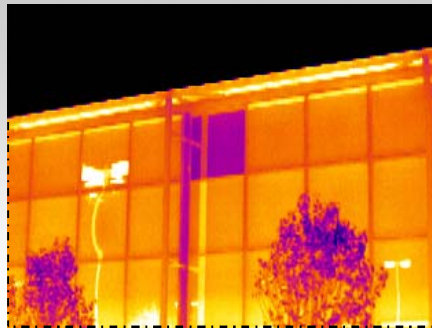


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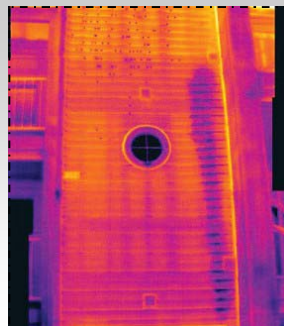
INFRARED IN ACTION



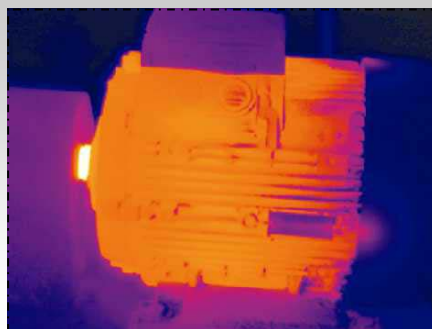
Locate electrical problems with infrared. In the example shown here, circuit breaker phase exceeds 80% ampacity, and the temperature exceeds breaker rating. Aside from not adequately meeting power needs, this issue poses a potential electrical fire hazard



This thermal image clearly demonstrates the energy efficiency difference between single and double pane windows with the darker window showing significant energy loss in this summer time thermal image. Infrared offers the best technology to quickly and accurately locate areas of energy inefficiency - enabling cost savings for your home or business as well as better use of limited energy resources.



The thermogram of this vinyl-sided 3-floor apartment house clearly shows the path of a serious water leak - completely hidden within the wall - from a washing machine on the third floor. The thermographer used FLIR's Image Builder software to automatically "stitch" the three individual thermographs into one fully thermographic collage.



This motor has an internal winding problem, detected by the infrared camera, but otherwise not visible.

**By making a few small changes, you can reduce your energy costs
By 10% to 50%, and, at the same time, help reduce air pollution
And dependence on foreign fuel imports.
- "Energy Efficiency and Renewable Energy"
U.S. Department of Energy, September 2005**

Commercial & Residential Inspection

Infrared inspection with a special camera enables a powerful noninvasive method to monitor and diagnose the condition of buildings. Quickly identify problem areas that can't be seen by the naked eye- eliminating destructive probing methods. Results are captured and documented instantly into professional reports - providing tangible proof of deficiencies. Infrared inspection helps save time and money.

Energy Auditing

Infrared thermography is a well-accepted method of imaging and evaluating the thermal efficiency of the building "envelope", (i.e. walls, roof, insulation, doors, windows, and other penetrations, as well as the efficiency and condition of heating and cooling systems). Temperature anomalies reveal problems instantly, enabling needed repairs and energy improvements to be made with accuracy and confidence. This will provide accurate pinpoint of deficiencies that usually can be remedied and result in energy savings and improved comfort.

Restoration

Thermographic imagery provides immediate documentation of as-built or post-restoration quality, post-casualty cause and origin data, plumbing and building envelope water leakage, post-flood and fire water-damaged material assessment and electrical problems. Infrared cameras instantly capture and record high-resolution images providing fast detection for fast action. Plus, once the cause of a moisture issue is repaired, infrared can be used to monitor the drying process, and confirm when moisture is gone.

Plant Operations

Thermographic images can quickly identify failing motors, pumps, and other mechanical equipment that generates energy. Identification of defective or overloaded equipment can prevent plant failures and shutdowns.



This is a thermographic image of a boy holding a hot drink and a cold beverage.
Can you tell which one is hot and which one is cold?

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