

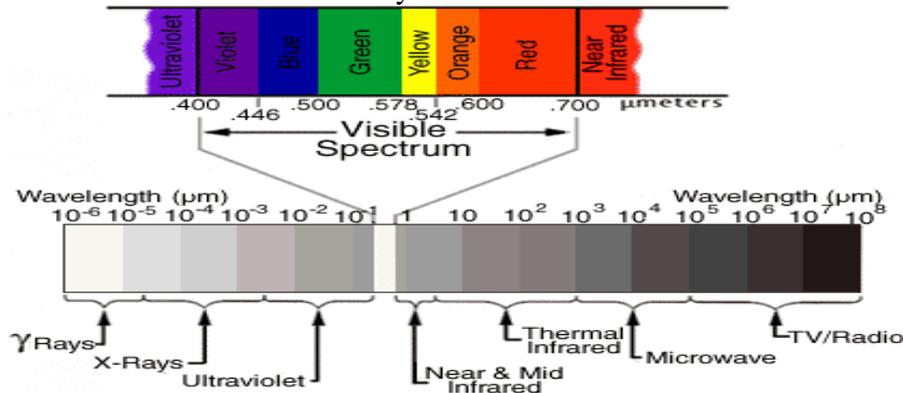
Infrared Thermographic Report
For



Report done by
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Level II Thermographer

What is Infrared?

- IR is part of the electromagnetic spectrum discovered in the 1800's
- By William Herschel



IR 101

- The IR imager sees emitted energy in the IR spectrum range from (shortwave) 3-5 microns (longwave) 7-13 microns.
- The amount of energy is seen through the imager. The reason everything is colored is to give the eye something to interpret.
- Interpretation is key with Thermography.

How Infrared can help Commissioning

Commissioning is the process where by the system is put through its sequence of operation at its design. There are many tools and techniques to start up and check out systems. Buildings all have their own special issues not in the design, that's why we commission.

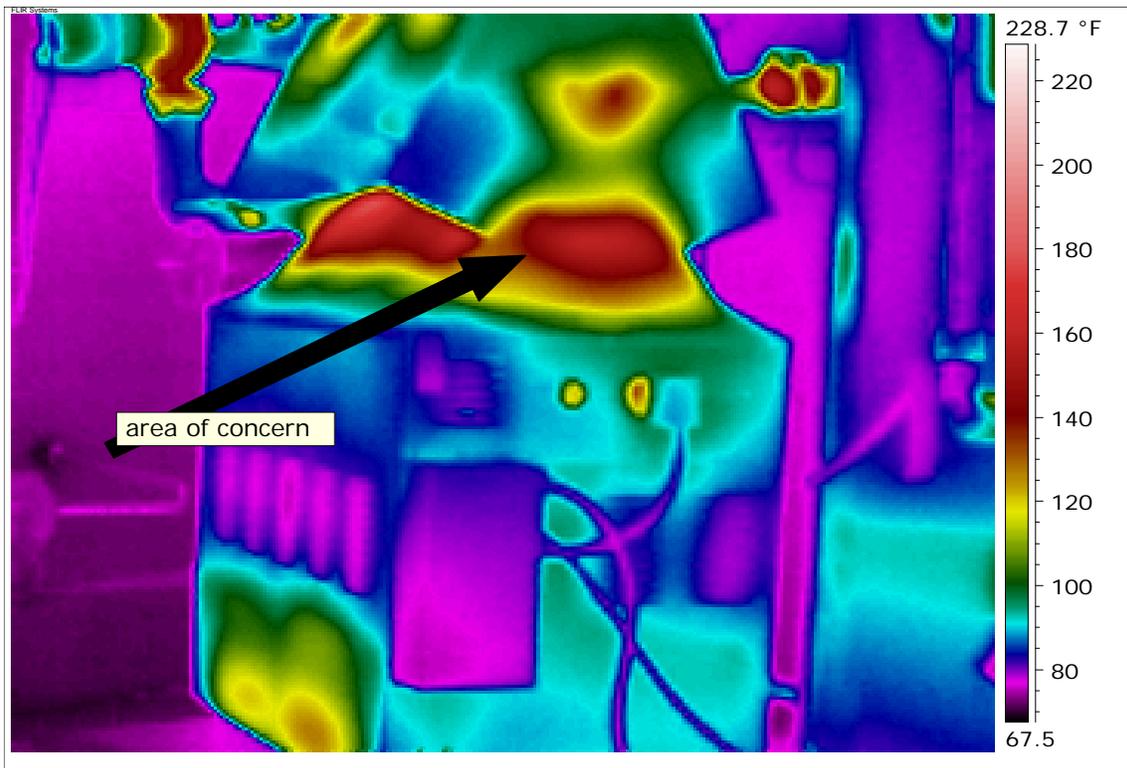
- Infrared Thermography can help as a great tool to help locate and even show why certain things don't work properly.

Building HVAC 101

Heating Ventilation & Air Conditioning

Buildings are conditioned by adding or removing heat from a given space through a medium. In this case the medium is air.

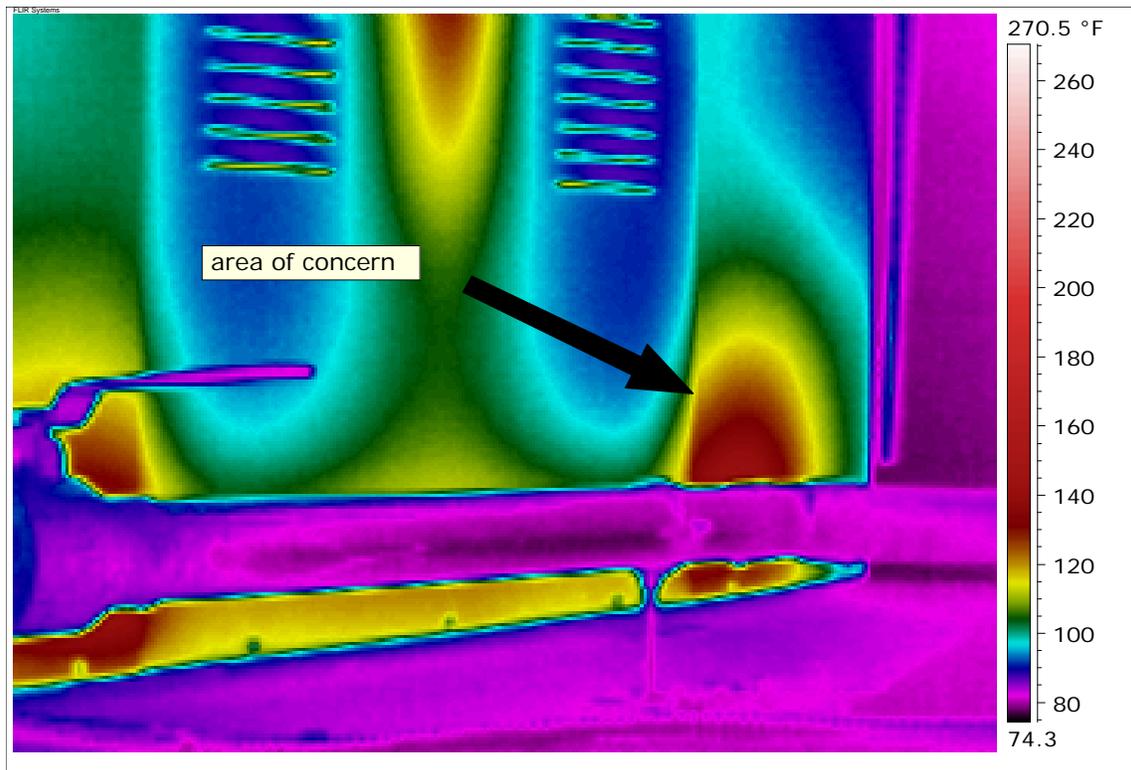
The air is circulated through a refrigerated coil or DX coil or chilled water coil, which removes heat and transfers the heat through the refrigerant/water to the condenser coil/cooling tower, via a fan/pump. Dirty filters or poor air flow causes coils to freeze and compressor failure.



Description: area of concern boiler tech should investigate



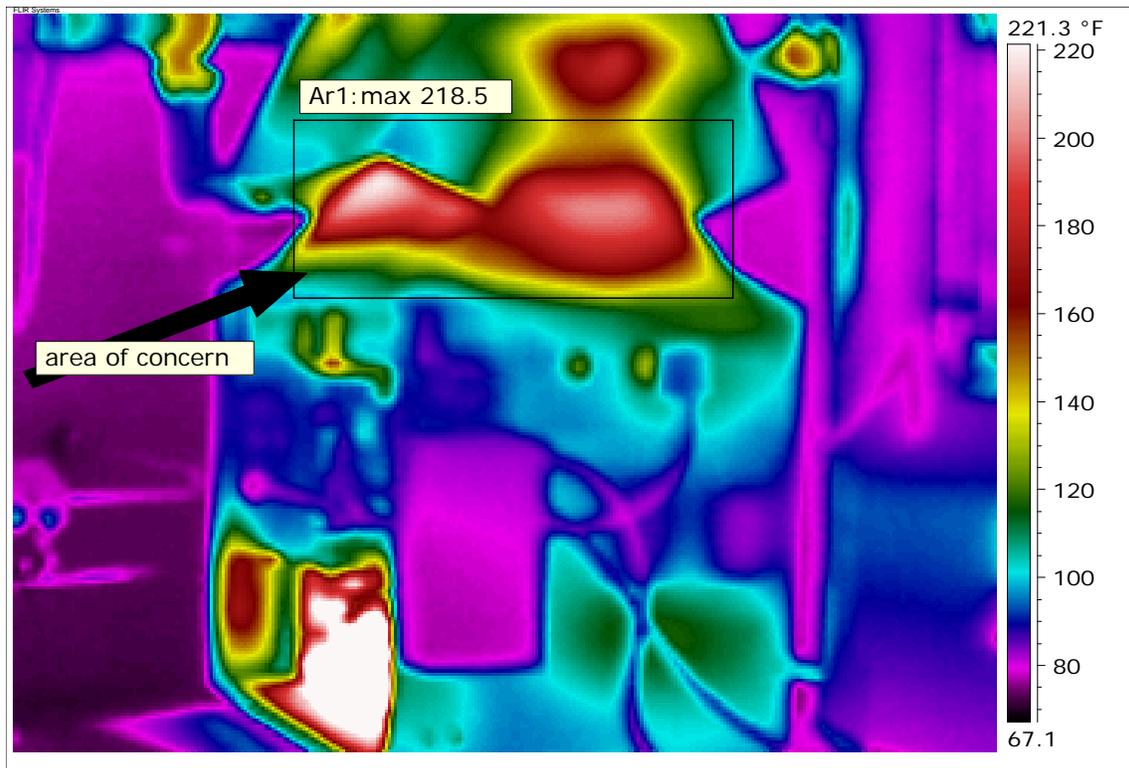
www.infraredsurvey.com Report shows anomalies-structure should be further investigated by a skilled tradesman. Anomalies are temperature differences due to several issues of which water maybe a key factor. This report does not guaranty the findings of water but to provide further evidence to sample areas that show strong possibilities of moisture or that water was there at one time.This report does not guaranty electrical hazards ,this report shows strong possibilities of hazards .



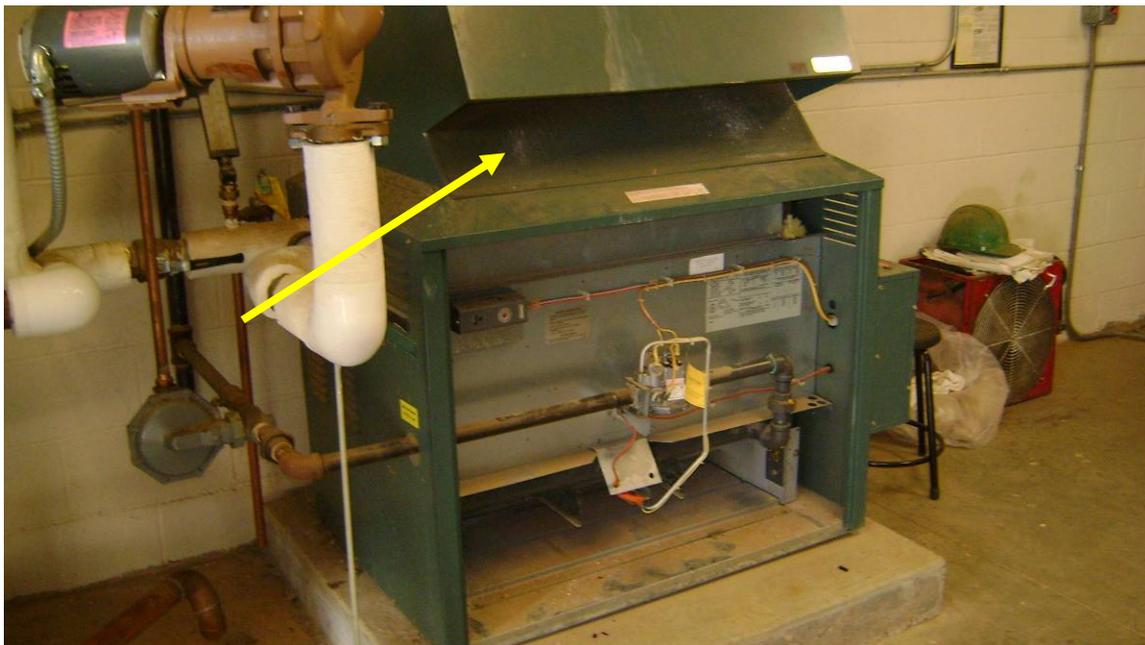
Description: Sub-Surface temp is higher .



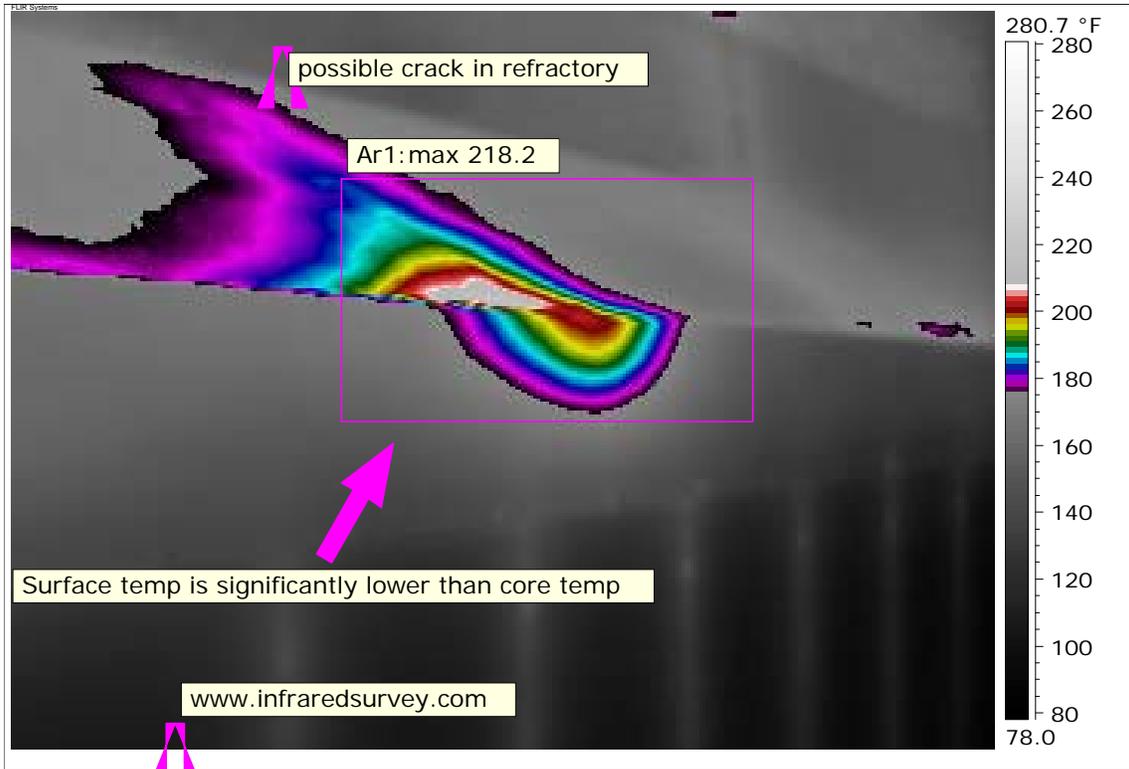
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Description: Boiler tech should investigate further



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Description: Boiler 2 suspect cracked refractory all boilers should be cleaned and checked for cracks. Combustion is also rolling out of draft hood.



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