



SAVING ON RISING ENERGY COSTS WITH PREDICTIVE MAINTENANCE ACOUSTIC IMAGING TOOLS FROM FLIR

Customer's Challenge Cut Energy Waste And Boost Savings

A global manufacturer was experiencing a dramatic rise in energy costs over the past 3 years. With over 20 locations nationwide, they put out a challenge to their facilities: find cost savings through preventative maintenance. One of the key areas identified was leaks within their compressed air & gas systems. Compressed air is one of the largest expenses in manufacturing and leaks lead to significant energy

waste. Though leaks are very common and easy to repair, finding them has traditionally been difficult and time consuming. **This customer turned to FLIR in an effort to help reduce energy consumption, increase productivity and extend the life of their compressors.** All of this quickly adds money back to the bottom line.

The Solution: Detect Air Leaks Faster And Smarter With FLIR

The FLIR Si Series are acoustic imaging cameras that **detect air leaks over 10x faster** than traditional methods. With its lightweight, one-handed design, it is easy for the operator to quickly and safely locate both small and large leaks; the source of energy waste. Equipped with AI (artificial intelligence), the dollar loss per leak is instantly calculated and displayed on the camera screen. Images can be captured throughout the inspection and uploaded using the free reporting software. Users can **generate reports** to document results, sum the total expected cost savings, and create work orders for repair.

The Result:

Because of the ease of use of the FLIR Si Series, the results are immediate. Operators can conduct reliable inspections to complement their PM program without formal training. For this test location, they found and repaired over \$12,000 in air leaks in the first week. These savings were immediately recognized as a direct ROI upon purchase. The reports can be shared across the organization, helping provide documentation as they track towards reaching their annual energy savings goal.

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Many air pipes are installed in ancillary facilities as well as main manufacturing facilities.



An acoustic camera is extremely simple to use. The onboard analytics deliver instantaneous quantification of leak size to dollar loss/leak.



Air leak in the graphical user interface.