



RS Maintenance Solutions ultrasonic air leak inspections can help create **massive financial and carbon savings with a rapid payback period.**

Contrary to **popular opinion**, compressed **air is not free.**

The truth is quite the opposite, with a typical industrial air compressor costing >\$87,000/year in electricity costs alone, with compressors accounting for as much as **30% of total electricity used** in some facilities¹. Leaks from components such as unions, valves, fittings and couplings not only waste energy, but can also **negatively impact both the performance and the lifespan of your compressed air system.**

Estimating the cost of leaks²



Fig 1: Approximate cost of an individual air leak

One of the most **cost-effective ways** to get the most out of your compressed air system is to **repair leaks.**

Adopting a **plant-wide ultrasonic air leak survey** is a great way of both identifying and quantifying the size and cost of those leaks, utilising local site energy cost information and detailing equivalent CO₂ savings.

Armed with this information, a more systematic approach to cutting compressed air costs can be applied, **allowing prioritisation of repairs based on the size of leak**, expected cost of repair or expected payback.

It is estimated that on average, **approximately 40% of industrial compressed air is lost to leakages.**

¹ - Source, Energystar.gov, OIT Energy Tips; Determine the cost of compressed air for your plant.

² - Calculation assumes 8760 hours per year, 100 pounds per square inch gauge (PSIG) system, and £0.05 per kWh



How does it work?

An RS Maintenance Solutions **energy loss auditor** will attend site and perform a **non-intrusive fault-finding survey** of your compressed air systems using airborne ultrasonic technology. This method will both **identify the fault and assess its severity** in terms of cost.

A **full itemised report** is then generated, with detail of leak size, cost and **estimated payback time** if remedial work is carried out.

Fluke ii910 Sonic Acoustic Imager

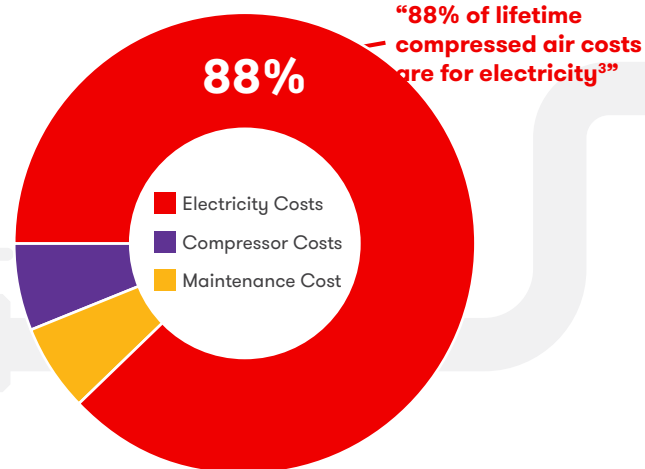
Our auditors use the industry-leading Fluke ii910 Sonic Acoustic Imagers to conduct the surveys. It allows technicians see sound as they scan hoses, fittings, and connections for leaks. Its built-in acoustic array of tiny sensitive microphones generates a spectrum of decibel levels per frequency. Plus these devices can detect electrical partial discharge (PD)—a serious issue on insulators, transformers, switch gears, and high-voltage powerlines.



RS Stock Number: **206-6117**



- Training services offered
- Equipment available for purchase



For more information or to organise your Air Leak Survey:

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