



AUDITS  
MONITORING  
CONSERVATION

## Ultrasonic Leak Detection Surveys



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# Ultrasonic Leak Detection

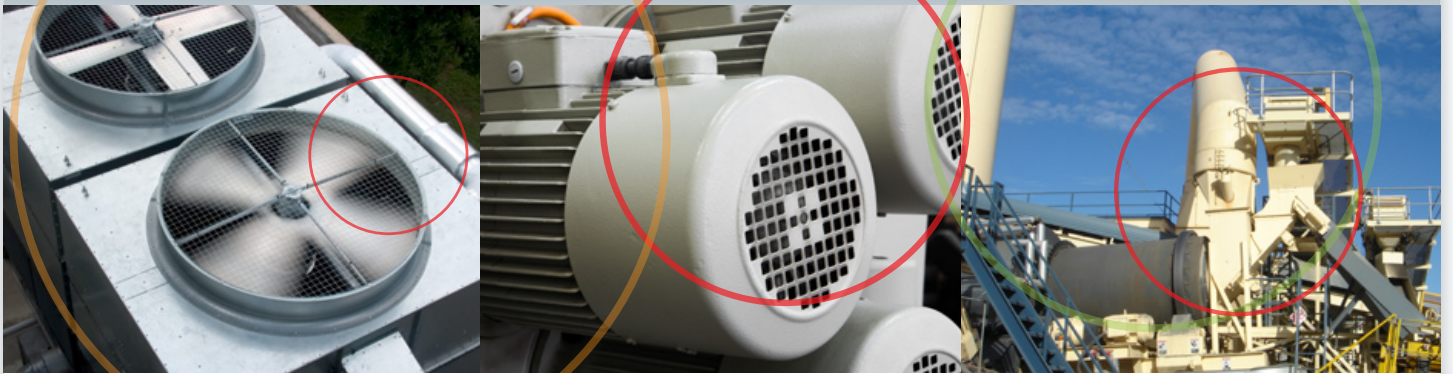
Compressed air leaks can commonly account for 20% to 50% of a plant's total compressed air consumption. Frequently, fixing leaks can be as simple as tightening a loose fitting and as such can provide an extremely attractive payback period.

Ultrasonic inspections are the only way to accurately identify and quantify compressed air leaks. They are a valuable tool for preventive maintenance, energy management and quality control. Ultrasonic detectors are sensitive to sound beyond the limits of normal human hearing (20Hz – 20kHz), and can therefore "hear" compressed air leaks before they are audible to the human ear.



## Energy NZ's Ultrasonic Leak Detection Service includes:

- A comprehensive ultrasonic survey of the site carried out by a qualified UEQ-TC-1A staff member
- Three phase electrical power loggings of the site's air compressors
- Wetted ultrasonic compressed air flow loggings
- Tagging and cataloguing of all compressed air leaks
- Estimation of cost to repair and payback period for each compressed air leak



# Add an Ultrasonic Leak Detection Survey to Your Annual Maintenance Program

Even if an ultrasonic compressed air leak survey has been conducted on your site in the past, new leaks regularly form and previously-small leaks can become large. Managing a plant's compressed air leaks is a balancing act between maintenance and energy costs.

To maintain an acceptable level of compressed air leakage throughout your plant, it is recommended that an ultrasonic leak detection survey is carried out every 12 months.

Energy NZ's accredited compressed air system auditors and certified ultrasonic leak detection engineers can provide quick and effective leak detection surveys, along with easy-to-understand professional reports.

## **Benefits of Energy NZ's Ultrasonic Leak Detection Surveys:**

- Typical air compressor electricity savings of 10%-30%, and sometimes higher
- Increase in compressed air capacity by reducing compressed air leak demand
- Better understanding of where compressed air leaks are most prominent
- Increases in air compressor life and reductions in servicing requirements
- Reductions in plant noise levels



# About Energy NZ

Energy NZ is an independently owned and operated New Zealand company offering the following range of services nationwide to some of New Zealand and Australia's largest industrial and commercial organisations:

- **Energy, water and carbon emissions auditing**
- **Energy procurement and contract renewals**
- **Transport and vehicle fleet audits**
- **Compressed air system audits**
- **Ultrasonic compressed air leak detection**
- **Infrared thermal imaging**
- **Power quality monitoring**

Our team includes electrical and mechanical engineers, accredited energy and compressed air system auditors and certified thermal imaging and ultrasound technicians.

Call us today on +64 9 488 0942 and allow Energy NZ to demonstrate how we can improve the energy efficiency of your business.

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