AIRScan – Air Leakages Detection

Atlas Copco Optimization

AIRScan: Discover how to save energy by eliminating air leaks

Did you know that up to 20% of the energy consumption in your compressed air system could be lost due to air leaks? Discover how to reduce this cost in a very simple way.

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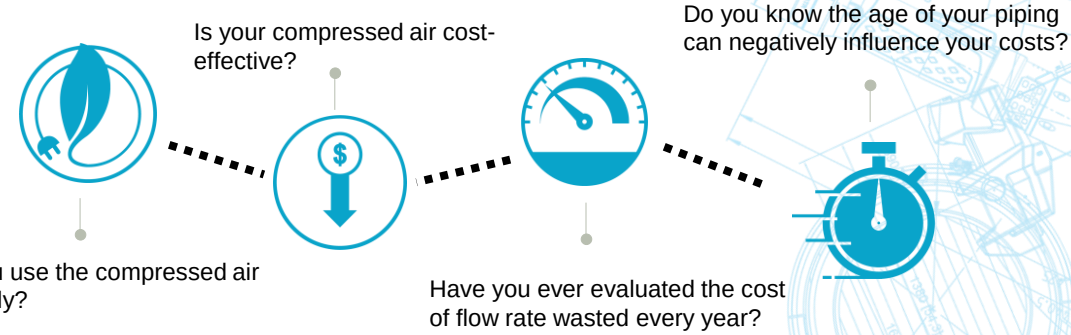
In older compressed air systems, up to 20% of the total compressed air consumptions may be lost through leaks. That is a lot of money you are blowing away. Have a look at the table below, showing the power lost due to air leaks:

Equivalent leak diameter [mm]	Wasted flow rate [l/s] at 7 bar	Wasted kW due to leak
1	1.2	0.4
3	11.1	4.0
5	31.0	10.8
10	124.0	43.0

How can we help you save money? We detect leaks using tools specifically designed for Atlas Copco. The information are used to evaluate energy loss via our proprietary software; together with our experience, it allows us to give you realistic savings figures. Finally, we provide a report with analysis of problems and solutions to improve your system's performance.

EXAMPLE OF TYPICAL ENERGY SAVINGS

Total installed power	250 kW	Total yearly running cost	200.000 €
Yearly Running Hours	8000 hours	Leakages potential savings	40.000 €



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How is an AIRScan Air Leaks Detection performed?

1. Pre-assessment of the compressed air distribution system
2. Air leaks detection via the latest generation tool “Acoustic Camera”
3. Tagging of leaks and reporting of energy savings recommendations

We measure air leaks using the ultimate technology: an Acoustic camera specifically designed for Atlas Copco. Measurement are performed during operation, so it is not necessary to stop the production. The logged information are used to evaluate energy loss via our unique and proprietary analysis. Together with our competence and experience, this allows us to give you realistic savings figures.

Why do we need an ultrasonic leak detection? Compressed air leaks generate ultrasounds: these sounds are not audible to the human ear, so very accurate tools must be used. With acoustic camera, via 124 microphones noise is transposed in real time on the 5’’ touch screen into live wasted flow calculation; then, an image of the leaks is taken with colored overlaid heatmap. Finally, the leak is tagged with a clear indication of the noise intensity and a number to easily identify it in the report.

Features	Benefits
Non-intrusive measurement system	Can be performed at any time
Latest technology tool and software	30% more leaks detected, compared with old tools
Comprehensive and read friendly reports	Valuable document that outlines the energy savings opportunities
Independent analysis	Not linked to equipment sales
Flexible and totally configurable	Taylor made solution
Can be combined with the traditional service plan	A yearly audit can be included in the yearly maintenance budget

Quality Guarantee: AIRScan complies with the ISO 11011 standard for compressed air system assessment. This ensures that your entire facility is assessed based on a clearly defined framework. AIRScan can also be used for your company's documentation for the ISO 50001 energy management system.