

J&J Air Systems



Compressed Air Systems
Essential Cost and Energy Savings

Our service teams in action supporting your compressed air systems.



Service

Supporting customers 24/7 - 365 days a year

Maintenance of your Compressed Air system will ensure optimum efficiency and reliability. We support customers with dependable cost-effective service packages. In addition to routine maintenance, we provide customers with a variety of cost saving Energy programs and services.

A reduction of 1 bar line pressure of will save you energy.

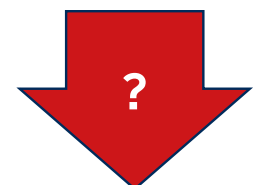


Repairs

To minimise costs and maximise efficiency

Compressed Air systems need to be reliable as they are essential to most production processes. They also need to be maintained correctly or the efficiency will be affected. Any breakdowns due to poor maintenance will needlessly cost your company money. Blocked filters will increase your energy consumption, old oil = additional wear, and air leaks will just waste money.

Maintenance is typically 8% of your total life costs.



Did you know that 10% of all electricity used in industry is accounted for by compressed air systems?



Efficient Compressed air systems

Energy efficient target

All Compressed Air installations being different, it is essential to fully understand customers individual requirements and their specific demands to evaluate the most suitable Energy efficient solution.

Your efficiency goal should be....



Air Leaks - Target Zero

How much Compressed air are you losing through leaks? A typical site operating an 11kW Air Compressor 24/7 x 48 weeks; with 30% air leaks, will waste more than £3000+ per annum. The cost of identifying and repairing the air leaks will be a fraction of the cost, of the energy wasted.

How much are you wasting?



Air leaks typically waste between 10% - 30% or more of the compressed air produced.

Action Plan

Leak Detection



1

And there it goes...

Air is “free” but the production of compressed air is not. It requires expensive electrical energy. The production of 1m³ of compressed air costs on average £0.15p to £0.75p (dependent upon specific power rating and assuming average electricity price: £0.50p/kW/h).

2

How much Compressed Air is wasted?

Up to 30% of this expensively produced compressed air is lost due to leaks – and always when the compressor is running, or wasted at the end of a shift! Our illustration shows just how much one leak can cost.

3

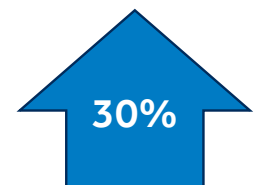
How much do Air Leaks cost?

Even leaks with a diameter of just 3 mm will cost around £14,000 per year (8,000 operating hours, 6 bar, £0.50/kWh). We will quantify the volume of air lost, and cost of each leak, to enable you to manage and take action.

4

See how much you can save.....

A properly maintained Compressed Air system will save your company money. Air leaks naturally occur over time, but as we have illustrated, these costs can be stopped, and in turn contribute positively as profit to your bottom line.



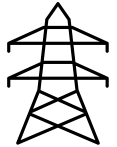
Hole diameter in mm	Air loss		Energy loss		Annual cost	
	at 6 bar l/s	at 12 bar l/s	at 6 bar kW/h	at 12 bar kWh/h	at 6 bar kW/h	at 12 bar £
• 1	1.1	2.0	0.4	1.1	1,600.00	4,400.00
● 3	9.7	18.0	3.5	9.7	14,000.00	38,800.00
● 5	26.9	50.0	9.7	27.0	38,800.00	108,000.00
● 10	107.8	200.1	38.8	108.1	155,200.00	432,400.00

Assumptions: Electricity price 0.50 £/kW/h at 8,000h/a

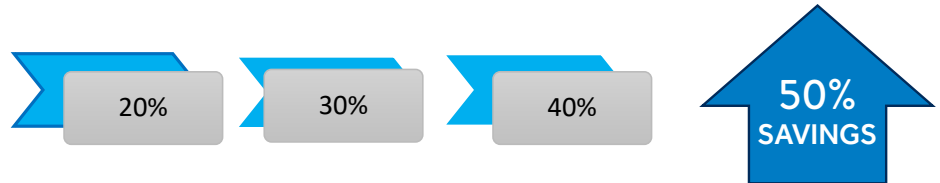
Typical minimum UK electrical energy tariff is £0.50p/kW/h.
Data reference CompAir UK November 2022.

Air Audits

Air system



Data Logging your Compressed Air System will identify how efficiently your Air Compressor system is working, and compare the performance of your existing installation to new Variable Speed technology available. Typical potential annual energy savings identified at existing customers range from 20% to 50% + saving in energy, provided by Variable Speed Compressor technology.



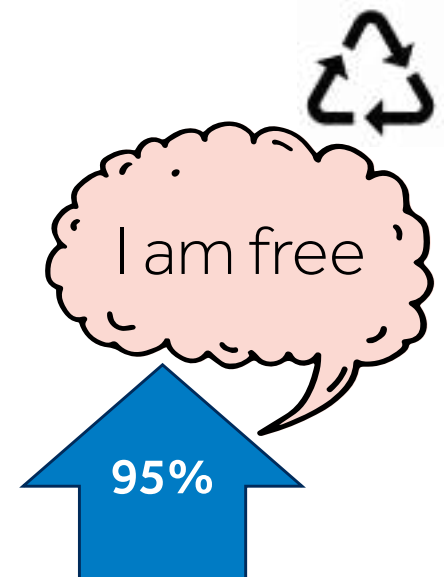
Need to quantify your potential savings? Speak to our technical support team on **0800 027 8442**.

Energy Efficiency

Recycle your waste heat

It is a fact that up to 95% of motor input energy can be recovered. We retro fit heat exchangers to existing Compressors from 15kw upwards. By redirecting the hot oil to a high efficiency oil to water heat exchanger, the heat can be transferred to water, for a multitude of applications.

Up to 95% of the waste heat can be recovered for re-use. **How do we do that?**



Customer Focus

National bakery

A major UK bakery operating 24 hours per day, producing over two million loafs and bakery products a week have installed the latest range of Compair L & LRS Series Air Compressors, with integral heat recovery. Heat recovery has contributed to savings of £139,000 per annum. The bakery achieved payback (ROI) in less than two years. Based on £0.12p / kW/h. 2017 Tariff.



Annual Saving = £188,000 ✓

Our Environment

Reducing your CO² emissions

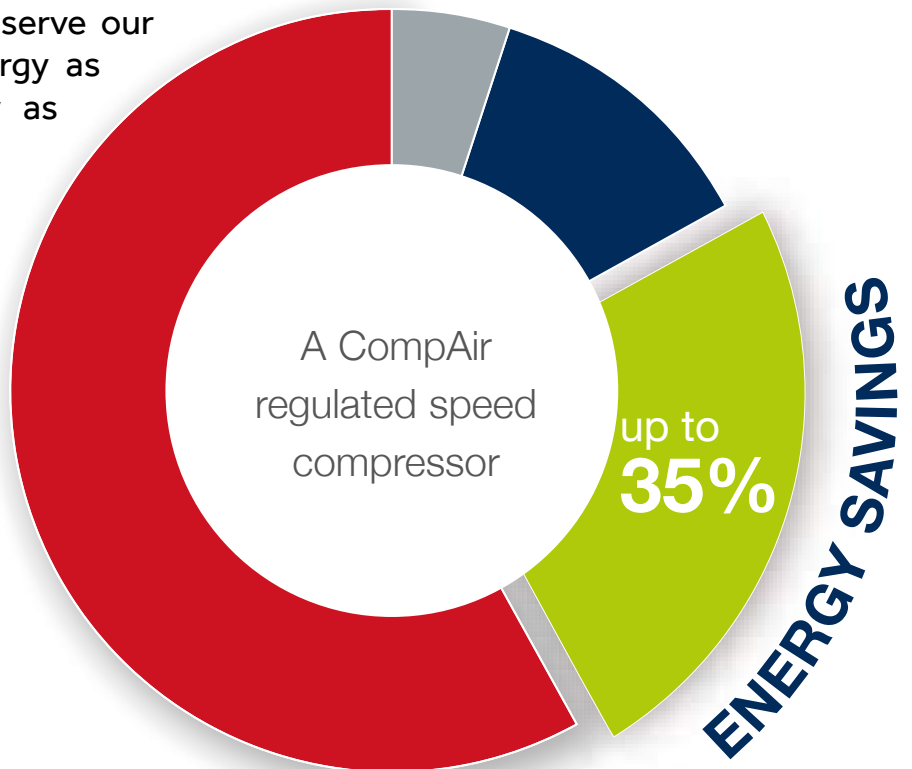


We all want to reduce costs, and we all care about the planet, and we need to conserve our resources and manage our energy as efficiently and as economically as possible.

In the spirit of a greener future, and to celebrate the wide range of Energy Efficient products and controls, CompAir will plant a tree for every CompAir lubricated or oil-free screw Air Compressor supplied in the UK.



ECO



The annual cost of ownership can be significantly reduced using a combination of regulated Variable Speed technology, IES2 efficient motors, four-core technology, which will help you achieve reducing your carbon footprint.

We operate and are accredited to ISO14001 Environmental Systems and standards with Compressed Air Systems. The company is registered with the Environment Agency for disposal of contaminated waste oil and filter elements.



iConn

Security, Efficiency & Control for you

iConn by Compair provides all Air Compressor user's easy access to critical service and operating status information. Available as standard on Compair 30kW and above Screw Air Compressors. iConn HD with enhanced facilities for an additional cost, of £0.80p/day. Real-time Monitoring with Fault, Alerts and Alarms as standard, with Full analysis, and energy efficiency reports. Dedicated Dashboard or App for ease of use.



Display and access directly to your
Mobile, Tablet or PC.



Compressors 30kW and above you will have iConn fitted as standard. We can retrofit to older Compair units, and most other makes of Air Compressors.



Assure, Advance and Pure Care Warranties

All Compair Hydrovane Air Compressors are supplied with Assure, Advance or Pure Care warranties. They protect your investment for up to 10 years or 44,000 hours and designed to give customers total peace of mind, and financial protection from unplanned maintenance costs...



World Class Compressed Air - Systems - Controls - Solutions



J&J Air Systems offices, warehouse, trade counter and service facility in High Wycombe.

J&J Air Systems supply a comprehensive product range of Compressed Air products and services comprising of lubricated and oil-free Air Compressors, fixed and variable speed drives, air treatment products, air driers filtration, controllers, medical and scientific compressors, blowers, vacuum units, nitrogen generators, heat recovery, remote service and energy efficiency monitoring and auditing services.

Compair's range of compressed air and vacuum products are manufactured to suit a wide variety of customers industrial applications, helping to improve the efficiency, reliability, and performance of your operation.

Our product ranges are manufactured in the UK, Germany, USA and Italy and are designed and manufactured to the highest quality standards to optimise your environmental and business goals.



Cert. No: GBQF1045
ISO9001-2015
Quality Systems



Compressed Air & Vacuum Systems



Service to Industry
1963 - 2023



Filtration, Hydraulics and Pneumatics



Cert. No: EN1904
ISO14001-2015
Environmental Systems

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