



# Compressed Air Management

## Are you wasting 80% of your electrical output?

Compressed air systems are often the largest demand -use of electricity in a manufacturing plant. They can be a significant source of wasted energy.

While compressed air can be a very useful tool in many industries, unfortunately in many cases it is extremely inefficient. It is estimated that only 20 to 25% of input electrical energy is delivered as useful compressed air. Leaks account for 10 to 50% of the waste, while misapplication accounts for 5 to 40% of the loss in compressed air.

### Is compressed air the right tool for the job?

The Certified Professional Auditor will evaluate if compressed air is the best tool for the job or if the function is better performed by a more efficient electric motor or Pneumatic system.

Leaks in a compressed air system are unavoidable. They happen. When not in use the compressed air system should be shut off. Significant savings can be achieved by installing automated systems to turn compressed air systems off when not in use, reducing both leakage and cost.

### The Process

There are several components to the compressed air system, for instance the electric motor. Your Wasmer Energy Efficiency Consultant will evaluate the efficiency of the motor to determine whether increasing the efficiency of the motor is the best solution. The distribution system piping, valves fittings and controls will all be examined for leaks, which may be causing inefficiencies in your system. Air filters will be examined to determine whether they need to be cleaned or replaced. A regular maintenance schedule of your compressed air systems will be recommended which will greatly improve the efficiency of your systems. Finally, the right automatic controls will be recommended to turn compressors off when not in use, dramatically increasing savings.

### 24 Month ROI

Most compressed air management systems pay for themselves through energy savings and maintenance cost within 2 years.

#### Fast Facts:

The U.S. government has implemented more laws requiring companies to improve their energy efficiency since 2005 than in its entire 237 year history combined.

Sources: Energy Efficiency Policy in the United States: Overview of Trends at Different Levels of Government, Elizabeth Doris, Jaquelin Cochran and Martin Vorum, 2009 EPA budget in brief, Environmental Protection Agency, 2013; Energy and environmental research thriving despite R&D budget cuts, Harris, 2012