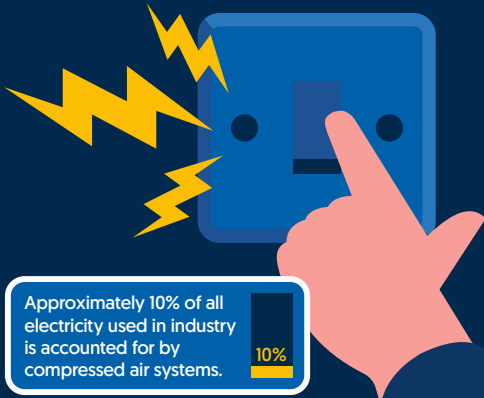


# Reducing Energy Costs:

## 6 ways to optimise compressed air systems

In partnership with FESTO

### 1 Turn off when not in use.



Approximately 10% of all electricity used in industry is accounted for by compressed air systems. **10%**

- Consider turning off compressors when not in use or during quieter periods
- Utilise STOP/START technology to isolate the air to machines that are idle - even during production shifts

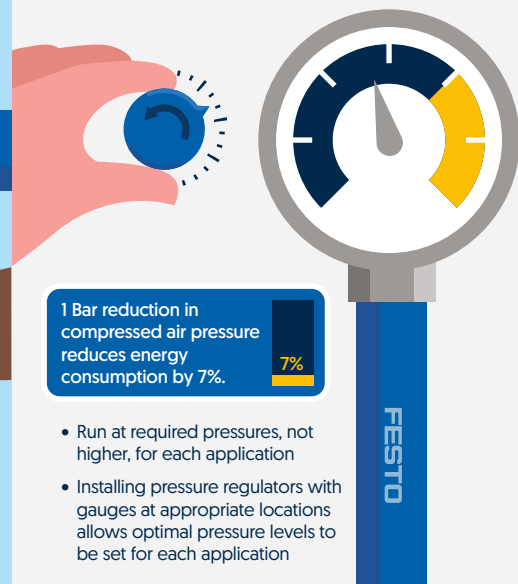
### 2 Find and fix existing leaks.



Did you know up to 40% of your generated compressed air is being lost due to leaks? **40%**

- Adopt an active not re-active programme to detect and repair leaks in your compressed air system
- Invest in an ultrasonic leak detection gun and train maintenance on how to effectively use it

### 3 Reduce system pressure.



1 Bar reduction in compressed air pressure reduces energy consumption by 7%. **7%**

- Run at required pressures, not higher, for each application
- Installing pressure regulators with gauges at appropriate locations allows optimal pressure levels to be set for each application

### 4 Eliminate inappropriate use.



Approximately 70% of compressed air (after leaks) is used for blowing off, cooling or the production of vacuum. **70%**

- Use vacuum pumps or air blowers, as both of these products will use a much smaller Kw motor than the compressor and are more energy efficient
- Using alternative methods can reduce compressed air costs at point of use anywhere from 10% to 90%

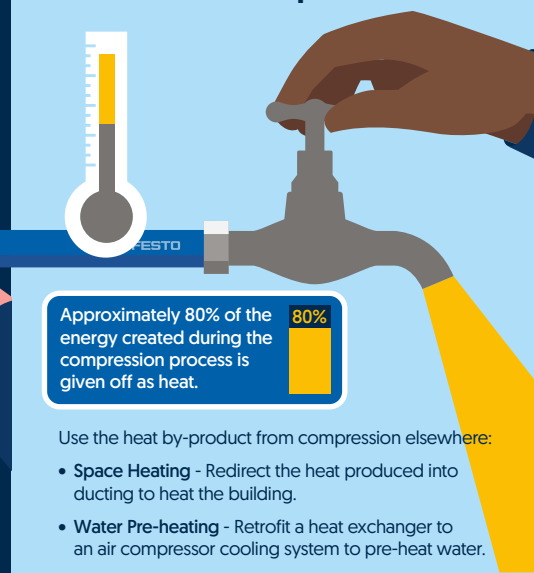
### 5 Track air usage.



You can't put in place cost saving initiatives until you know what's happening in your system. **£**

- Investing in equipment to measure pressure, volume flow and leaks has the following cost-saving benefits:
- Highlight savings potential
  - Reduce the escape of expensive compressed air
  - Prevent possible breakdowns by alerting you to any issues

### 6 Use heat generated for other processes.



Approximately 80% of the energy created during the compression process is given off as heat. **80%**

- Use the heat by-product from compression elsewhere:
- **Space Heating** - Redirect the heat produced into ducting to heat the building.
  - **Water Pre-heating** - Retrofit a heat exchanger to an air compressor cooling system to pre-heat water.