



The solution for your compressed air needs.

Datalogged Air Audits

# SAVE ON ENERGY

Rebates available from the **IESO**



800-667-6717

WWW.COMAIRCO.COM

**To support you in your energy saving initiatives, the IESO offers incentive programs for the implementation of these measures.**

**Comairco is recognized by Canadian hydroelectric companies as a qualified appraiser.**

**Here are some examples of energy saving measures**

- Variable speed compressors
- Variable volume compressor
- Tandem compressor (for more energy efficiency)
- Installation of purge economizer for regenerative dryers
- Installation of a refrigerated cycling or variable speed dryer
- Rebalance of compressor control systems
- Automatic drains change for drains without loss of air

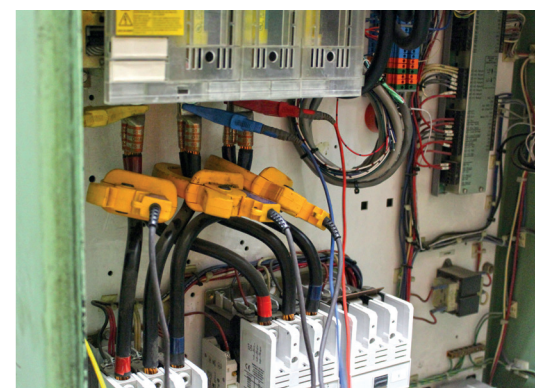
**On average, customers who perform an audit can reduce energy costs between 25% and 50%.**

**Fixing one ¼" leak could save you up to 8000\$ per year.**

## COMAIRCO AUDIT SERVICES

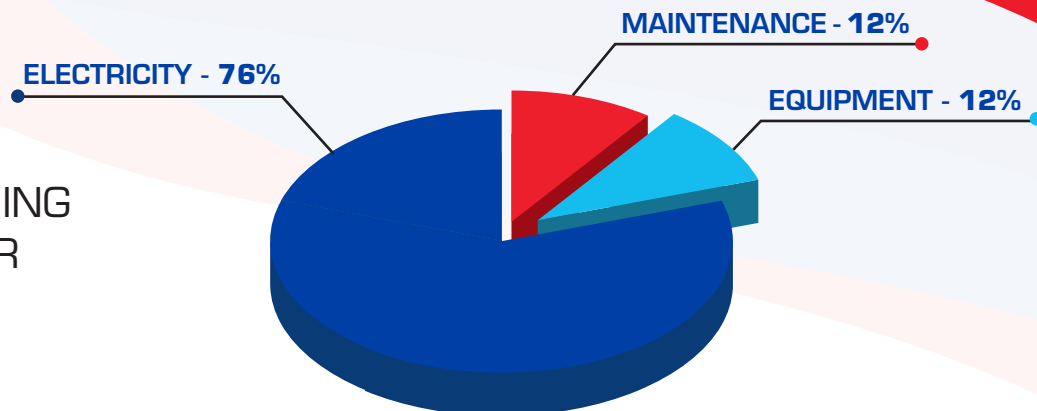
**WHY PERFORM AN AUDIT ON YOUR COMPRESSED AIR SYSTEM?  
BECAUSE YOU CAN'T MANAGE WHAT YOU DON'T MEASURE!**

GOALS	BENEFITS
✓ <b>Perform a thorough «Supply Side» analysis on the state of the current compressed air system to determine current demand by shift.</b>	<ul style="list-style-type: none"><li>• Ability to determine the current efficiency and performance of your air system</li><li>• Identify reliable energy efficient solutions with concrete data, accurate reports. (PSI, CFM, Leaks, KW)</li><li>• Deliver a block diagram of the current compressed air system</li></ul>
✓ <b>Determine the annual cost in electricity of the compressors</b>	<ul style="list-style-type: none"><li>• Research all energy rebate programs to increase your return on investments made to the system</li></ul>
✓ <b>Verify if the addition of new machines for production will work with the current system</b>	<ul style="list-style-type: none"><li>• Download audit data to perform hypothetical analysis for system retrofits/upgrades maximizing energy and system efficiency</li><li>• Make the optimal selection of the new compressor</li></ul>
✓ <b>Determine the variation in pressure according to usage</b> (An increase of 2 PSI in the operating pressure results in an increase of 1 % in power consumption)	<ul style="list-style-type: none"><li>• Helps detect and correct any pressure losses as well as perform necessary adjustments or updates in order to save the maximum amount of energy</li></ul>



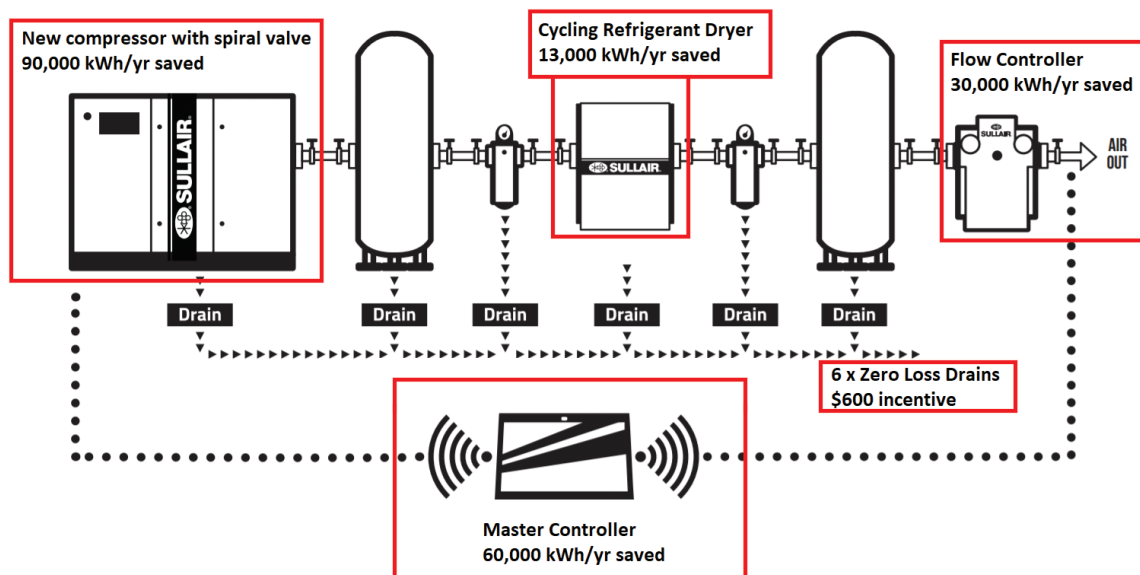
*Did you know that running a compressor is very costly? Running a 50hp at 10 cents per Kwh costs around 34 000\$ per year. A 100hp is 68 000\$ per year.*

## COST OF RUNNING A COMPRESSOR



**LET COMAIRCO ONTARIO WITH OUR STAFF ENGINEER HANDLE ALL THE PAPERWORK AND NAVIGATE THE REBATE PROGRAM FOR YOU.**

TOTAL ENERGY USAGE BEFORE : **626,000 kWh/year**



TOTAL ENERGY USAGE AFTER : **433,000 kWh/year** • TOTAL ENERGY SAVINGS : **193,000 kWh/year**  
IESO INCENTIVE : **\$19,300** (approx. 25% discount of the total equipment cost!)

SOLUTION	AVAILABLE INCENTIVE * *
Zero Loss Drains	\$100 each
Variable Capacity Compressor (up to 75HP)	\$80 per HP
Variable Speed Compressor (up to 75HP)	\$100 per HP
Custom Incentives (available for any energy efficient equipment purchase)	\$0.10 per kWh saved (up to 50% of total project cost including installation)

\*\*you must receive pre-approval before proceeding with the project

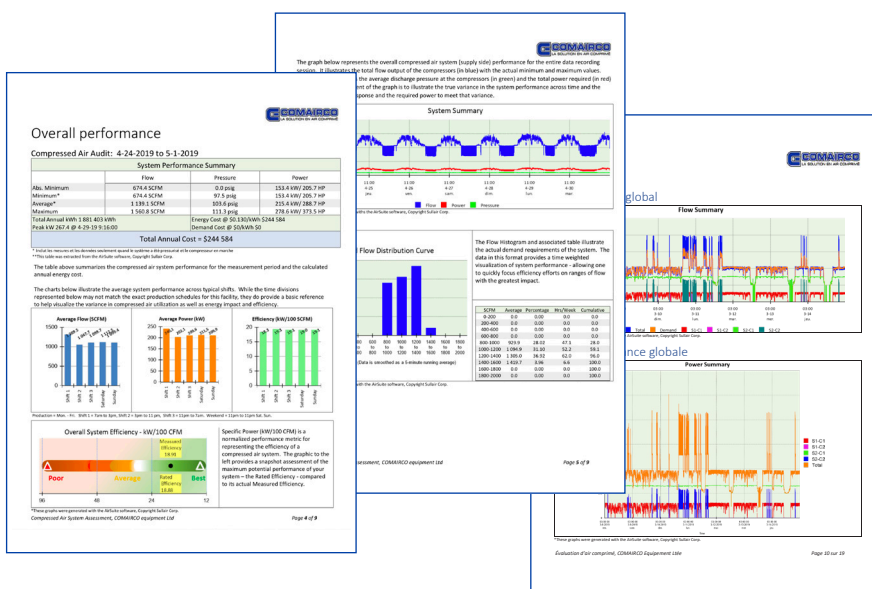


# PHASES OF AN AUDIT

## Determine ;

- ✓ Purpose of the audit
- ✓ Compressors to be audited
- ✓ Duration of the audit

1. **Data Loggers to be installed when you experience your normal production demand. We commit to safely install our logging equipment with no interruption of your processes. We can supply portable temporary air if required.**
2. **Most audits are performed over a 7 day period with the capability to datalog for up to 14 days if required.**
3. **Download the data collected and develop a comprehensive report to show minimum, maximum and average flow, power & pressure profiles of your facility.**
4. **A presentation sharing the detailed results of the air audit is delivered at your facility. We will show energy conservation ideas and recommendations to deliver clean dry air providing the total lowest cost of ownership to your plant.**



## DETAILED COMAIRCO REPORTS

- For each audit performed, a detailed multi-page report is provided describing the current state of your system.
- Reports prepared by the Comairco engineering team.
- Our staff will take the time to present and explain the results in order to achieve the end purpose of your audit.

## TECHNICAL SPECIFICATIONS

- ✓ Measuring time up to 14 days
- ✓ Measuring points every 5 seconds
- ✓ Recording of pressure and power of each compressor
- ✓ Possibility to take pressure readings in critical areas of your factory
- ✓ Ability to measure dewpoint if desired
- ✓ Audit results analyzed with sophisticated software to provide customized solutions
- ✓ Audit Methodology Recognized by Leading Energy Suppliers in North America