



# Air Leak Case Study

## BENEFITS:

- Eliminate excess air usage
- Lower dew point on compressed air system
- Remove excess portable air compressors
- Shut down permanent compressor to use only as backup, if needed
- Identify gas leaks during compressed air leak survey



## BACKGROUND:

The client is a world leader in manufacturing a wide variety of products essential to everyday living. They employ over 850 people and occupies over 1,000 acres. They produce more than one billion lb./yr. of polymers, organic chemicals, and bulk pharmaceuticals

## THE TASK:

To locate and identify an approximate 3,500 cfm of compressed air loss that has been identified by the customer during a compressed air assessment. The assessment concluded that the plant needed 10,000 cfm to operate efficiently and the plant was producing 13,500 cfm.

## SOLUTION:

Locate all compressed air leaks using ultrasonic equipment and supply customer with a detailed Excel report with the following information: size of leak, location of leak, tag number, CFM loss per leak, and total dollar loss per year.

## RESULTS:

- Client was able to shut down a 3,000 cfm air compressor after survey was completed and repairs were made
- Client was able to lower dew point on compressed air system and reduce air dryer load

## AIR LEAK SURVEY

- Total Leaks - 678
- Total CFM - 3,500
- Est. Annual \$ Loss - \$164,500.00

## RECOMMENDATIONS:

For the client to implement a yearly compressed air leak survey into the preventative maintenance program to keep unneeded air compressors shut down.

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