

Compressed air systems present one of the largest and most frequent opportunities for energy reduction in industrial facilities. Zorn Compressor offers a comprehensive lineup of energy savings services and products to help you optimize your system and lower operating costs.

The Zorn Technical Solutions Group (TSG) features a team of experienced compressed air experts dedicated to assist you with maximizing system performance, lowering operational costs and improving system reliability.

Our energy-savings portfolio includes: a variety of assessment and audit programs, compressed air leak detection & repair service, compressed air load shedding, air quality testing (ISO 8573-1) and multiple compressor control panels. All our TSG offerings are based upon Compressed Air Best Practices and DOE Guidelines.

## MEET THE TSG TEAM

### **Steve Volkman, Director**

Steve has over 35 years of compressed air industry experience and is leading our Technical Solutions Group to provide high value services and products that help you save energy and improve your systems.

Steve performs energy savings system analysis and specializes in low pressure system improvement and compressed air load shedding projects. He received his DOE AIRMaster Specialist certification in 2010.

### **Dan Plucinski, Field Technician**

Dan has been with Zorn Compressor since 2014 and focuses on performing energy savings leak detection and repair services. Additionally, Dan executes our Air Quality Testing program where we test compressed air for SQF certification purposes and Grade D breathable air to help ensure safety.

Dan has certifications in ISO 8573 and Air Quality Testing procedures as well as certification from passing the UE Instruments class for leak detections.

### **Adam Johnson, Field Engineer/Lead Auditor**

Adam has held a variety of technical positions since entering the industry in 1999 and has focused on developing and implementing our compressed air system analysis program since joining Zorn in 2006.

Adam is a qualified DOE AIRMaster Certified Specialist and is focused on helping customers save energy and improve processes by performing detailed, comprehensive compressed air and vacuum system audits and designing multiple compressor system control panels.

### **Dick Offut, Corporate Service Manager**

Dick started in the industry in 1983 and has been at Zorn since 1991. He has extensive experience and training with rotary and centrifugal compressor controls. Among Dick's area of focus are control retrofits, central automation panels and centrifugal rebuilds and upgrades.

# LEAK DETECTION



Compressed air is a vital utility for every company, and it is essential to maximize the full potential of every system. With rising energy costs, it is important to operate compressed air equipment as efficiently as possible and minimize leak losses.

Leaks can be a significant source of wasted energy in industrial compressed air systems, presenting several challenges and issues including:

- Wasting 20-30% of the compressor's output
- Increased compressed air operating costs
- Increased compressed air maintenance costs

Proactive leak detection and repair can reduce leaks to less than 10% of compressor output. Creating a leak repair and prevention program is very important in maintaining the efficiency, reliability, stability and cost effectiveness of any compressed air system.

*What are compressed air leaks costing you?*

Equivalent Orifice Size	Air Loss (cfm)	Annual Cost
1/8"	16	\$1,432
1/4"	63	\$5,640
3/8"	143	\$12,801

Annual Costs were calculated using 100 psig air, an average energy rate of \$0.080/kWh, and assuming 6,000 annual operating hours and 4.0 cfm/bhp

## LEAK DETECTION ANALYSIS

A Zorn Trained Technician will conduct a survey using ultrasonic detection equipment to evaluate for compressed air leaks, including:

- Identifying
- Tagging
- Tracking
- Logging
- Verifying

The inspection analyzes your leak loss and estimates current annual costs of any leaks, based on your current energy costs. After assessing the results, a trained technician can repair tagged leaks in accessible areas such as pipe fittings, poly tubing, quick connects, hose connections, FRL's, and auto drains.

Our team of leak detection experts will work with you to take advantage of Focus on Energy and Com Ed incentive programs.



**To learn more about Technical Solutions Group, please contact us  
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**COMPRESSORS ARE OUR BUSINESS  
PEOPLE ARE OUR FOCUS**

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