

Leak Detection Program



Best-Aire, LLC's in-house engineering department is continually working on ways to operate and maintain your compressed air system more efficiently and reliably. One way to achieve this is by reducing energy consumption and maintenance cost. A solution that we offer is our ultrasonic leak detection program. A simple program of leak inspection and repair can go a long way towards reducing excessive energy costs.

Leak Detection & Repair Benefits:

- Save on Energy Consumption
- Eliminate Wasted Air
- Increase Compressor Productivity
- Locate Small Leaks Before They Grow
- Lower Maintenance Costs

Problems Associated With Leaks:

- Drops In System Pressure
- Air Tools Run Less Efficiently
- Decreased Equipment Longevity
- Additional Maintenance
- Adds Unnecessary Compressor Capacity

By using ultrasonic equipment we are able to tune into and pin point the locations of leaks. Best-Aire will identify and tag each leak. The tag will list an identification number, date located, and a brief description. All of the identified leaks will be compiled into a master list. From this information a report will be generated. We will be able to determine the severity of the leaks and attach an associated cost savings for repairing them. As seen below, the cost savings for repairing even the minor leaks are substantial.

Air Leak Cost

Diameter Of Leak	Cubic Feet/ Minute	Cubic Feet/day	Loss/Day Dollars	Loss/Month Dollars	Loss/Year Dollars
1/64"	0.45	648	\$0.14	\$4.28	\$52.03
1/32"	1.6	2304	\$0.51	\$15.21	\$185.01
3/64"	3.66	5270.4	\$1.16	\$34.78	\$423.21
1/16"	6.45	9288	\$2.04	\$61.30	\$745.83
3/32"	14.5	20880	\$4.59	\$137.81	\$1,676.66
1/8"	25.8	37152	\$8.17	\$245.20	\$2,983.31
3/16"	58.3	83952	\$18.47	\$554.08	\$6,741.35
1/4"	103	148320	\$32.63	\$978.91	\$11,910.10
5/16"	162	233280	\$51.32	\$1,539.65	\$18,732.38
3/8"	234	336960	\$74.13	\$2,223.94	\$27,057.89

Based on 100 PSIG, \$0.22/MCF, 8,760 Hours/Year

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