



Ultrasonic Leak Detection Audit

You have a 1/16" leak in
your compressed air
system — No big deal?

EACH one could cost
you **\$594.00***

How many are in your plant?

**Based on 100 PSIG, \$1.22 per 1000
cfm, 8,760 hours/year.*

*A 1/16" diameter leak, at 100 PSI,
could flow as much as 6.5 cfm.*

A typical plant can have a leak rate equal to 10% to 30% of the total compressed air production capacity. Just because a leak can't be seen or heard doesn't mean it doesn't exist.

The most common problem areas are:

- Quick Disconnects
- Filter/Reg/Lubricators
- Pipe Joints
- Condensate Traps
- Valves
- Flanges
- Packings
- Thread Sealants

**** PLANT SHUTDOWN NOT REQUIRED ****

Ultrasonic leak detection is the best way to find leaks in your air system. An acoustic detector can recognize high frequency air turbulence associated with leaks.





PROCESS & POWER

“You can’t pull money out of thin air, but you can out of compressed air.”

Air Leak Cost

Dia of Leak	CFM	CFM/Day	Loss/Day \$\$	Loss/Month \$\$	Loss/Year \$\$
1/64"	.45	576	\$0.10	\$3.00	\$36.00
1/32"	1.60	2,304	\$0.40	\$12.00	\$144.00
3/64"	3.66	5,270	\$0.95	\$28.50	\$342.00
1/16"	6.45	9,288	\$4.65	\$49.50	\$594.00
3/32"	14.50	20,880	\$3.75	\$112.50	\$1,500.00
1/8"	25.80	37,152	\$6.70	\$201.00	\$2,412.00
3/16"	58.30	83,952	\$15.10	\$453.00	\$5,436.00
1/4"	103.00	148,320	\$26.70	\$801.00	\$9,612.00
5/16"	162.00	233,280	\$42.00	\$1260.00	\$15,120.00
3/8"	234.00	336,960	\$60.65	\$1,819.50	\$21,834.00

Based on 100 PSIG, \$0.22 per 1000 CFM, 8,760 hours/year

Sample Audit Report

June 2009

Air Leaks Identified						Cost Avoidance	
						Identified	
						\$19,618.56	
Record Number	Location Name	Type of Gas	Pressure at Leak	dB Reading	Identified leaks Cost Avoidance	Size of Leak CFM	Energy Avoidance (kWh)
1	FEB Compressor room red bushing	Air	100	13	\$48.34	0.5	879
2	Maintenance shop NLM relief valve	Air	100	56	\$373.68	3.9	6794
3	FEB Accumulator Room right tank ball valve nipple	Air	100	35	\$193.49	2.0	3518
4	Compressor maintenance control air-leak	Air	100	50	\$240.04	2.4	5707