Report	Bottling
Company	Thermal Recon
Address	Crestwood, KY. 40014
Phone	(502) 693-7626
Website	thermalrecon.com

Author	Mike Fitzpatrick	Date	5/4/2023	Time	22:30
Device	Sonascreen				
Software	V1.2.444				

Summary	All leaks verified and tagged.	
Number of measurement	17	
Comment	Sample inspection. Time on site aprox. 45 minutes.	

Costs per volume	0.85 USD/1,000ft³			Energy Costs	$0.12
Running time per year	8736 h			CO2 Emission	0.9 lb/kWh
Overall leakage per year	14651 1,000 ft³	=	27.95219 cfm	Gas type	Air
Overall costs per year	$12,453.71			Currency	USD
CO2 emissions per year	91872 lb CO2			Volume Unit	cfm

	Priority 1	Priority 2	Priority 3	Priority 4	Priority 5
Number of leakages	9	7	0	0	1
Leakage rate in cfm	24.518	3.434	0.000	0.000	0.000

Number of leakages

0 — 0%
1 — 6%
7 — 41%
9 — 53%

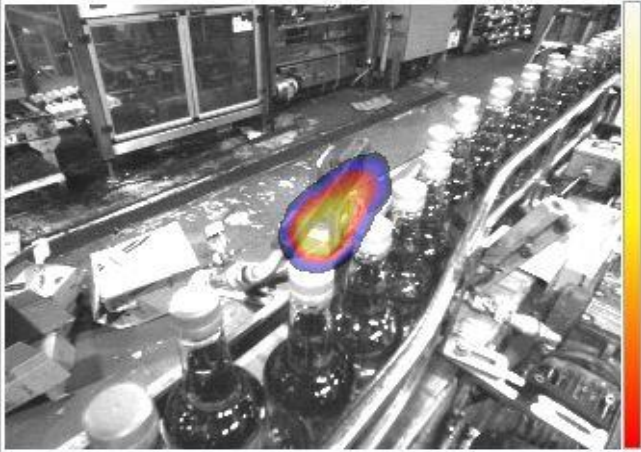## Leakage rate in cfm

3.434 — 12%
0.000 — 0%
24.518 — 88%
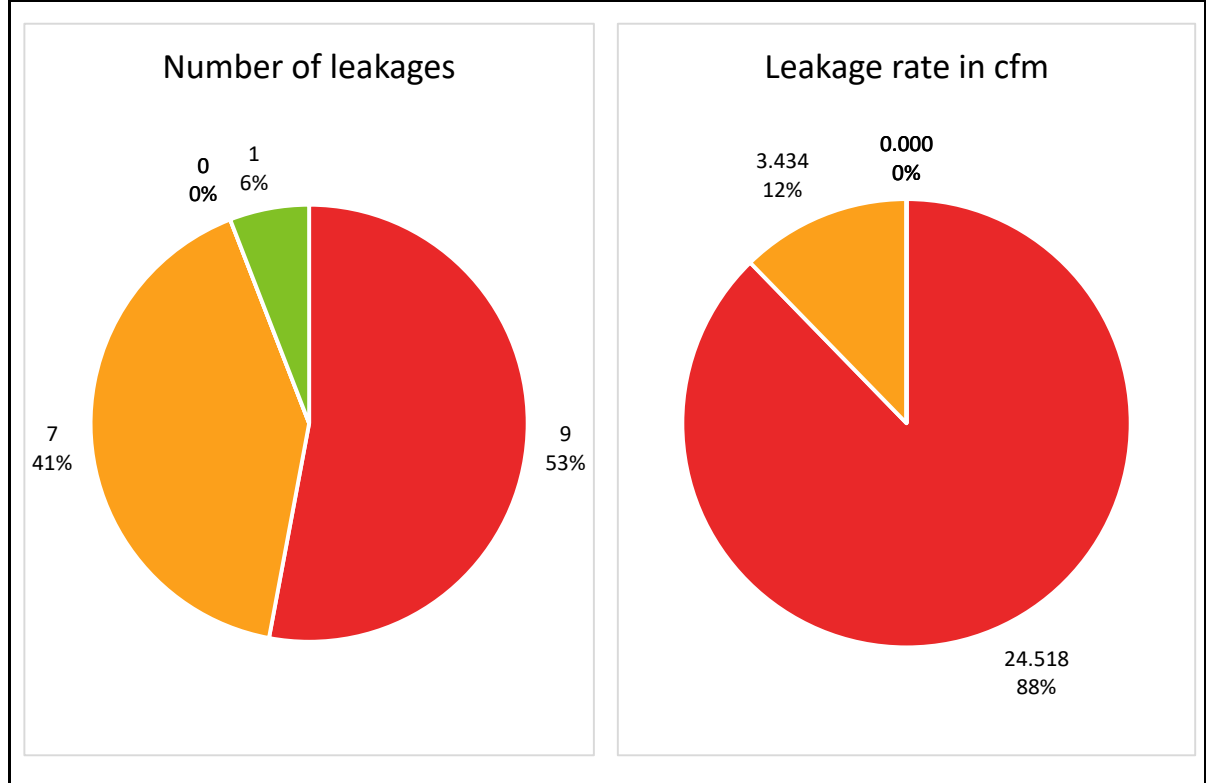
Disclaimer: Sonotec GmbH estimates leakage rates based on empirical determinations. Sonotec GmbH is in no way liable for the accuracy of these estimates, for the decisions made on the basis of the results obtained and for the achievement of objectives. In any case, the user bears full responsibility and is liable for all actions or non-actions derived from the results.
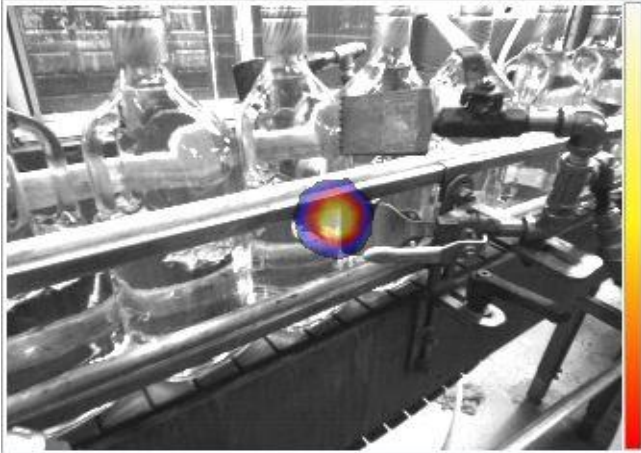
Report	Bottling
Company	Thermal Recon
Address	7507 Sunset Ln.
	Crestwood, KY. 40014
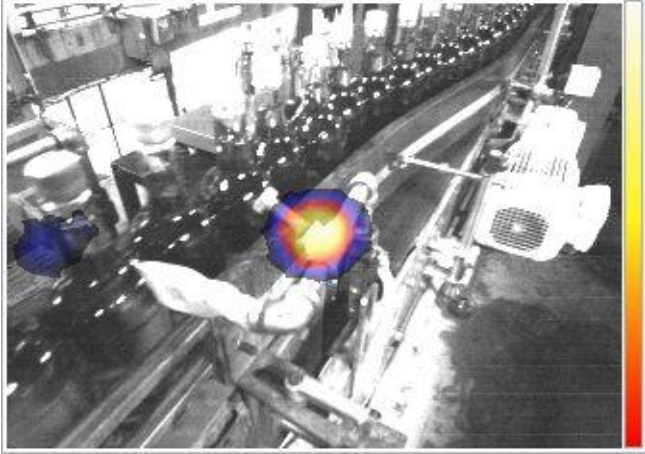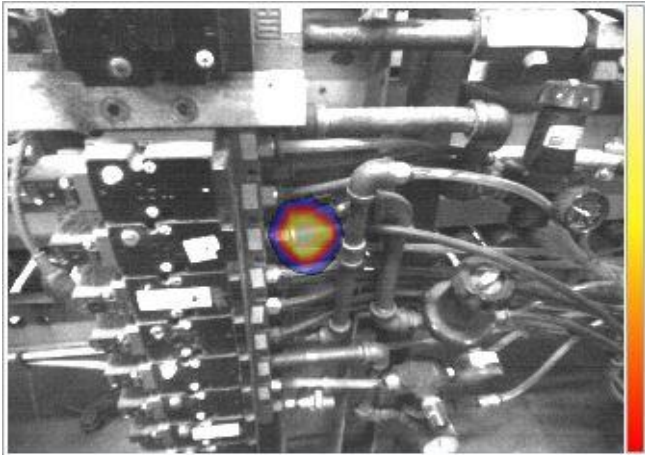
Summary of leakages

ID	Leak rate	Loss/year	Priority	Repaired
2023-05-03_09-04-22.tdms	3.26393 cfm	1,454.20	1	✖
2023-05-03_09-06-30.tdms	1.44645 cfm	644.44	1	✖
2023-05-03_09-07-48.tdms	.61813 cfm	275.40	2	✖
2023-05-03_09-08-45.tdms	.66347 cfm	295.60	2	✖
2023-05-03_09-11-52.tdms	1.20922 cfm	538.75	1	✖
2023-05-03_09-13-34.tdms	.59360 cfm	264.47	2	✖
2023-05-03_09-14-45.tdms	1.10497 cfm	492.30	1	✖
2023-05-04_10-15-08.tdms	5.30451 cfm	2,363.35	1	✖
2023-05-04_10-19-58.tdms	5.01088 cfm	2,232.53	1	✖
2023-05-04_10-25-19.tdms	.81683 cfm	363.93	1	✖
2023-05-04_10-27-22.tdms	.43519 cfm	193.89	2	✖
2023-05-04_10-31-35.tdms	.25615 cfm	114.12	2	✖
2023-05-04_10-36-07.tdms	.57633 cfm	256.78	2	✖
2023-05-04_10-43-41.tdms	2.63055 cfm	1,172.01	1	✖
2023-05-04_10-45-47.tdms	3.73097 cfm	1,662.28	1	✖
2023-05-04_10-58-53.tdms	.000 cfm	0.00	5	✖
2023-05-04_11-00-24.tdms	.29103 cfm	129.66	2	✖

ID	2023-05-04_10-19-58.tdms	Attribute		Value
		Loss	(USD/a)	2232.53
		Leak rate	(cfm)	5.01088
		Level	(dB)	106.4
		Pressure	(psi)	90
		Distance	(ft)	1.00
		Gas type		Air
		Machine		
		Component		
		Priority		1
		Repair recommended		Yes
		Repair done		No
		Repairman		
		Repair date		

Line 7 Section 3, Air Dyer.

ID	2023-05-04_10-15-08.tdms	Attribute		Value
		Loss	(USD/a)	2363.35
		Leak rate	(cfm)	5.30451
		Level	(dB)	106.7
		Pressure	(psi)	90
		Distance	(ft)	1.00
		Gas type		Air
		Machine		
		Component		
		Priority		1
		Repair recommended		No
		Repair done		No
		Repairman		
		Repair date		

Comment
Line 2, Section 4 Coupling on backside.

ID	2023-05-04_10-45-47.tdms	Attribute		Value
		Loss	(USD/a)	1662.28
		Leak rate	(cfm)	3.73097
		Level	(dB)	105.7
		Pressure	(psi)	90
		Distance	(ft)	1.00
		Gas type		Air
		Machine		
		Component		
		Priority		1
		Repair recommended		Yes
		Repair done		No
		Repairman		
		Repair date		

Comment
Line 3, Section 2. This is a bolt in a t fitting that is leaking next to an air dryer.

ID	2023-05-04_10-36-07.tdms	Attribute		Value
		Loss	(USD/a)	256.78
		Leak rate	(cfm)	.57633
		Level	(dB)	91.3
		Pressure	(psi)	90
		Distance	(ft)	1.00
		Gas type		Air
		Machine		
		Component		
		Priority		2
		Repair recommended		Yes
		Repair done		No
		Repairman		
		Repair date		

Comment
Line 2, Section 1. Main manifold.