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# AtmosAir vs. VOCs - Syracuse University Lab Test

## Full-Scale Chamber Testing of Air Cleaner Performance for the Removal of Volatile Organic Compounds

TVOC Testing - Third Party Chamber Testing of AtmosAir vs. VOCs with Syracuse University Center of Excellence Laboratory.

Time from turn on AC (hr)	hexane	2-butanone	iso-butanol	toluene	tetrachloroethylene	hexanal	ethylbenzene	decane
<b>0.000</b>	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
<b>0.225</b>	87.4%	84.3%	68.6%	87.1%	88.7%	79.6%	89.4%	93.7%
<b>1.008</b>	63.9%	63.8%	32.1%	57.4%	61.1%	36.9%	58.9%	65.6%
<b>2.008</b>	43.6%	36.6%	20.9%	31.9%	40.0%	12.9%	34.0%	36.3%
<b>4.075</b>	21.1%	25.7%	9.4%	11.2%	18.8%	5.1%	11.0%	12.4%



### Study Conclusion

Test results showed good regression and repeatability between the two duplicate tests. Test indicated that AtmosAir air cleaners reduced the concentrations in the chamber air (57.12 m<sup>3</sup> in volume) for Hexane by 94.6%, 2-Butanone by 91.1%, Iso-butanol by 97.1%, Toluene by 98%, Tetrachloroethylene by 94.5%, Hexanal by 97.5%, Ethylbenze by 96.3% and Decane by 96.4% over the 6 hours pull-down test period. These corresponded to the equivalent clean air delivery rate (CADR) for the two units tested to range from 12 cfm to 22.5 cfm, depending of the VOCs.