

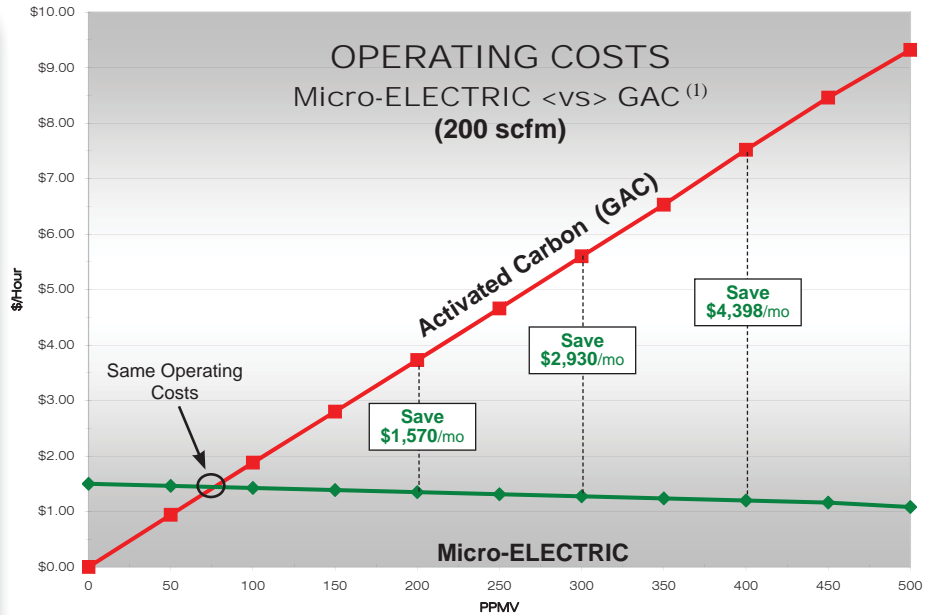
OPERATING COST COMPARISON

Micro-ELECTRIC <vs> GAC

Don't be fooled into thinking that activated carbon is the least expensive way to clean your site! We recently asked equipment operators what VOC concentrations they "switch over" to Granulated Activated Carbon (GAC) to finish cleaning their site. Most told us they swap out their thermal oxidizer or electric oxidizer for an SVE blower with GAC vessels at VOC concentrations from 200 - 500 ppmv. The chart below provides an operating cost comparison between our latest **Micro-ELECTRIC** SVE catalytic oxidizer and an SVE blower skid using GAC vessels for emissions control.

Micro-ELECTRIC Features

- Small size systems : 4-ft x 4-ft.
- Operates from 0 - 3500 ppmv.
- More economical from start to completion. No GAC needed.
- Quiet w/ complete SVE system.
- A "permanent destruction technology".
- Simple "flameless" operation.
- Destruction > 99%.
- Low Greenhouse Emissions.
- Low Operating Costs over full range:
 - 3000 ppmv: \$0.05/hr
 - 2500 ppmv: \$0.35/hr
 - 1000 ppmv: \$0.92/hr
 - 200 ppmv: \$1.55/hr



OPERATING COSTS⁽¹⁾. This chart clearly shows how GAC stacks up against our latest **Micro-ELECTRIC** oxidizer system in hourly operating costs. Once VOC's are over 100 ppmv VOC's, the usage cost of GAC gets very expensive. Consider this: If you have a site to cleanup - - start out using our energy efficient **Micro-ELECTRIC** system. Once concentrations drop to 500 ppmv or less, don't change out to GAC, just keep running your **Micro-ELECTRIC** until site closure. You won't have to hassle with installing a new SVE blower skid, no worrying about space for the GAC vessels, and no messy GAC drums plugging up your site or the owners parking spaces! Give us a call to learn more:



Disadvantages of GAC

- Excessive GAC costs >100 ppmv
- Unsightly GAC vessels at site.
- Limited operating range 0 - 500 ppmv.
- Unpredictable usage costs.
- Requires scheduled changeouts.
- Potential Air Permit breakthrough violations.
- Difficult to fit in space limited locations.
- Not a "permanent destruction" technology
- GAC disposal responsibilities.



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(1) Energy costs are based on operation at 200 scfm (assumed SVE blower electricity equal for both systems), pre-cat temp at 650F, electric heater kWh @ \$0.12, GAC cost at \$1.00/#, 15% retention. Above costs are estimates only, actual results may vary.