

Comparing 0.5 l/min des with 2 l/min sevo, **des still has 6.7 times the emissions potential of sevo**. You'd have to go down to 0.074 l/min flow with des to get an equivalent emissions impact to sevo at 2 l/min.

FGF (l/min)	CDE^{20} = Carbon Dioxide Equivalent (over 20 years)	
0.5	CDE^{20} Desflurane	46,796 g
1.0	CDE^{20} Isoflurane	7,762 g
2.0	CDE^{20} Sevoflurane	6,980 g

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Ryan et al., Anesth Analg. 2010 Jul;111(1):92-8

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GWP^{100} Sevoflurane = 130
 GWP^{100} Isoflurane = 510
 GWP^{100} Desflurane = 2540

* GWP^{100} GWP^{100} = 100-yr Global Warming Potential relative to CO_2 (GWP^{100} of CO_2 = 1)

* Ref: Sulbaek Andersen et al., Anesth Analg. 2012 May;114(5):1081-5

FDA FLOW REC FOR SEVOFLURANE:

- Don't use < 1 liter/min
- No more than 2 hrs 1-2 l/min
- If > 2 hrs, FGF rec = 2 l/min

For more details + reference info, scan the QRC code on this vaporizer or go to:
www.accessdata.fda.gov/drugsatfda_docs/label/2006/020478s0161b1.pdf (p. 17 states FGF rate rec's)

