

# How often do I need to wash EAC cells?

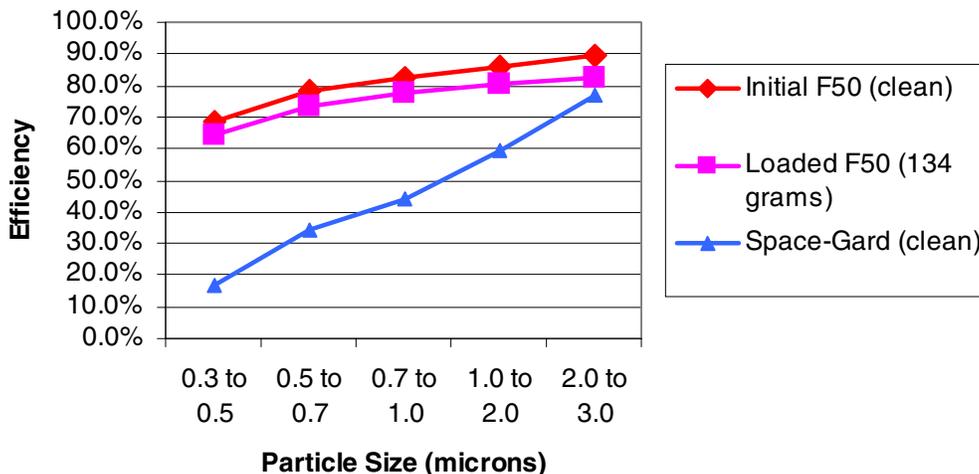
*Not as often as you may think. EACs maintain high efficiency and low pressure drop for time period far exceeding that of media filters.*

Lab tests show that the efficiency of the F50 Electronic Air Cleaner is maintained at a level much higher than a typical media air cleaner, and for a time that far exceeds the required media replacement interval. The data showed almost no drop off in efficiency when 133.5 grams - that's over 1/4 pound - of dust was collected by the cells and prefilter.

Equally impressive is the fact that **when loaded with 220 grams of dust, the pressure drop across the F50 was only 0.21" H<sub>2</sub>O.** This is lower than the *initial* pressure drop across most media filters!

Compare this to a typical media filter. For example, a Space-Gard<sup>®1</sup> Model 2400 when tested at 1400 cfm, has an initial pressure drop of 0.2" H<sub>2</sub>O - about the same as an F50. But unlike the F50, as the media filter collects particles the pressure drop increases, until finally the filter must be replaced. Most experts agree that a media filter should be replaced when it reaches a pressure drop of 0.5" H<sub>2</sub>O. In our test, when a Space-Gard<sup>®</sup> Model 2400 hit that point it collected less than 60 grams of dust, **less than 1/2 as much as the F50.**

So, what's our recommendation? **Wash your electronic air cleaner cells as often as you would replace a media filter - about every 6 to 12 months - and you'll be way ahead in both efficiency and pressure drop.**



Testing was conducted using test dust defined in ASHRAE Standard 52.1. This dust contains carbon, which is electrically conductive, which tends to impact the efficiency more than a non-conductive dust.

<sup>1</sup> Space-Gard is a registered trademark of Research Products Corporation.