

Case Study:



Test Date: July 19, 2005

Weather Conditions: 30C, Humid, Smog Day

Outside Air Particulate: 2.5 million

Home: 2000 sq. ft.

Smokers: 4

Inside Air Particulate: 5 million

The Location: A 40 year old split bungalow in Toronto, Ontario, Canada. Single floor with basement. Family residence with 4 adult smokers.

Air Quality Issue: The quality of the interior air was being compromised due to cigarette & cigar smoking inside the house. There were other dust and odor sources, but the smoking was the largest air quality issue.

The Installation: Calculations for the sizing of the HEPA filtration system were done and an Amaircare 6000V HEPA system was installed. The dirty air intake to the 6000V was drawn from the return duct approximately 6ft from where it enters the furnace. The HEPA return was ducted into the furnace return, just before it enters the furnace. It's installed in a by-pass fashion which allows air to be drawn from the house's main ventilation system to be filtered through the HEPA system and then distributed back through the home's ventilation system.



Results: (After one hour of filtration)

Outside Air Particulate: 2.5 million

Inside Air Particulate (Before Filtration): 5 million

Inside Air Particulate: 600,000

A dramatic reduction in the number of particulates inside the home was achieved in only one hour. Continued filtration will bring the inside particulates down even further.

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