

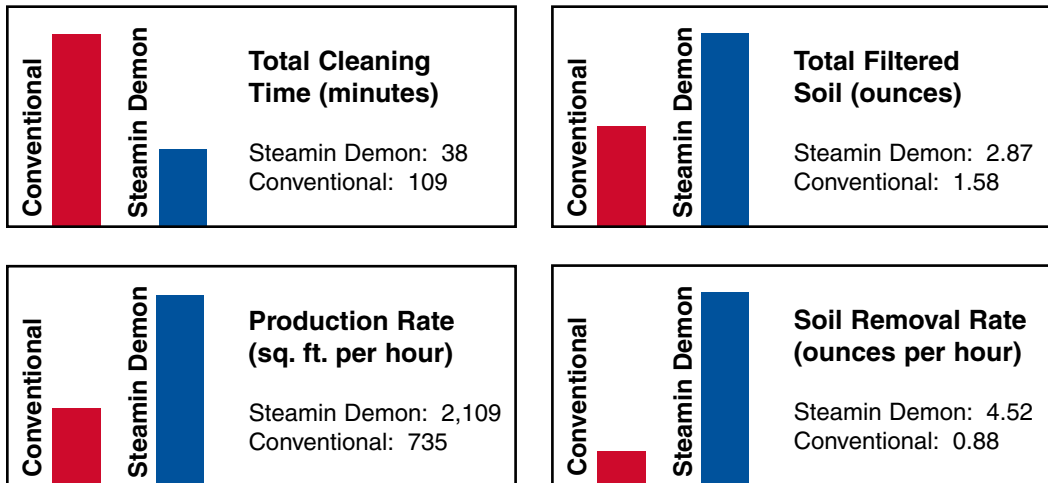
# CONVENTIONAL VS HIGH-FLOW EXTRACTION

ELEMENTARY SCHOOL  
Ramsey, Indiana  
January 2, 1998

FIELD TEST

## Comparative Testing of Soil Removal Capabilities and Production Rates of Self-Contained, Walk-Behind Extractors

TOTAL AREA CLEANED: 1,336 SQUARE FEET



### Notes, Observations and Key Findings

In this test a Steamin Demon was compared to a name-brand, self-contained, walk-behind extractor with a brush. The water-flow rate for the Steamin Demon was approximately four gallons per minute and the width of the cleaning path was 14.5 inches. The water-flow rate for the conventional extractor was approximately one gallon per minute and the cleaning path was 12 inches. By calculation it was determined that the Steamin Demon used 3.3 times as much water per minute per inch of cleaning path as the conventional extractor (35.3 ounces versus 10.7 ounces). In addition, it was determined through calculation that the Steamin Demon removed 3.2 times the amount of measured soil per hour per inch of cleaning path as the conventional extractor (0.31 versus 0.10 [27 minutes of down time spent filling and emptying the conventional extractor's tanks were factored out for the purposes of this calculation]). Therefore, it was determined that the relationship between increased water flow and increased soil removal was virtually 1:1 (3.3 times the amount of water removed 3.2 times the amount of soil).

### Testing Protocol

1. The area to be cleaned for the test was measured and divided into equal sections.
2. Half the carpet was cleaned by a trained, experienced operator using a conventional, walk-behind extractor. The other half of the carpet was cleaned using a high-flow extractor.
3. The time required to clean each section was recorded.
4. The waste water generated by each machine was collected in 32-gallon barrels and pumped through one-micron polyester felt filters. The filters were dried and weighed.

The time and soil-removal data obtained from the test was used to assess the relative production and soil-removal rates of each cleaning system.



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