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COOLING OF FLUE GASES IN THE SMOKE ZAPPER 250:

Significant Reduction in Temperature of Flue Gases Passing Through the Smoke Zapper 250

The following test took place at the UL LLC laboratories located at 333 Pfingsten Road, Northbrook, IL 60062-2096, for the UL 1978 listing of the Smoke Zapper product. Per testing completed under clause 14 of UL 1978 "Standard for Grease Ducts", a sample Smoke Zapper 250 unit underwent a temperature test to investigate temperature increase within the unit during exposure to 500°F flue gasses.

Per the standards of the clause 14 test, a gas burner directed a continuous stream of 500°F flue gasses into the inlet port of the Smoke Zapper 250 for 15 consecutive minutes. A 9-point heat sensor grid placed across the terminal exhaust port of the Smoke Zapper recorded the average temperature of flue gases after passing through the Smoke Zapper water nozzle array.

The following table represents the temperature data collected:

ELAPSED TIME (5 SECOND INTERVALS):	7:38	7:43	7:48
Smoke Zapper Exhaust Outlet Temperature	124°F	123°F	124°F
Flue Gases Temperature Drop	376°F	377°F	376°F

This data shows that in the 500°F inlet temperature test, the Smoke Zapper cooled gases exhausting from the unit by an average of 376.33°F. This represents **a 75.46% reduction in temperature of flue gases**, from the inlet to the outlet of the Smoke Zapper.

