

*The Hood
Tune Up
with DCV*



*Canadian
Case
Studies!*

Swiss Chalet, Alliston Ontario



Total Hood Exhaust

11,000 cfm



Hood 1	Hood 2	Hood 3	Hood 4	Hood 5	Hood 6	Hood 7	Tot Exh
3605	2459	1000	838	915	1014	1137	10968

Hood 2 @ 2460 cfm



Total 1 & 2 = 6060 cfm

Hood 1 @ 3600 cfm

The Hood Tune-Up



Hood 2



Enhanced C&C



End Panels Pass the Test!



The Controls

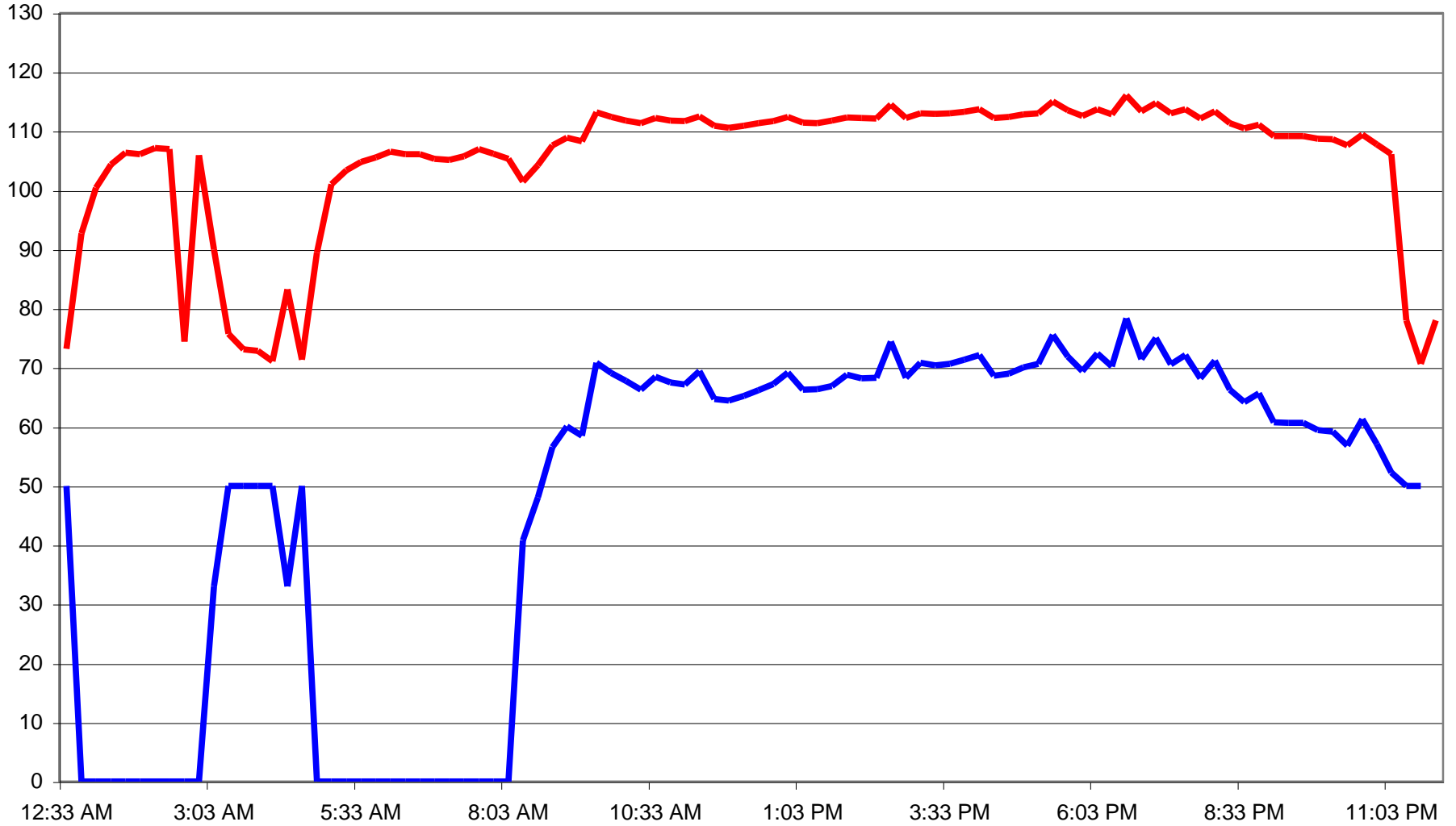


The Feedback

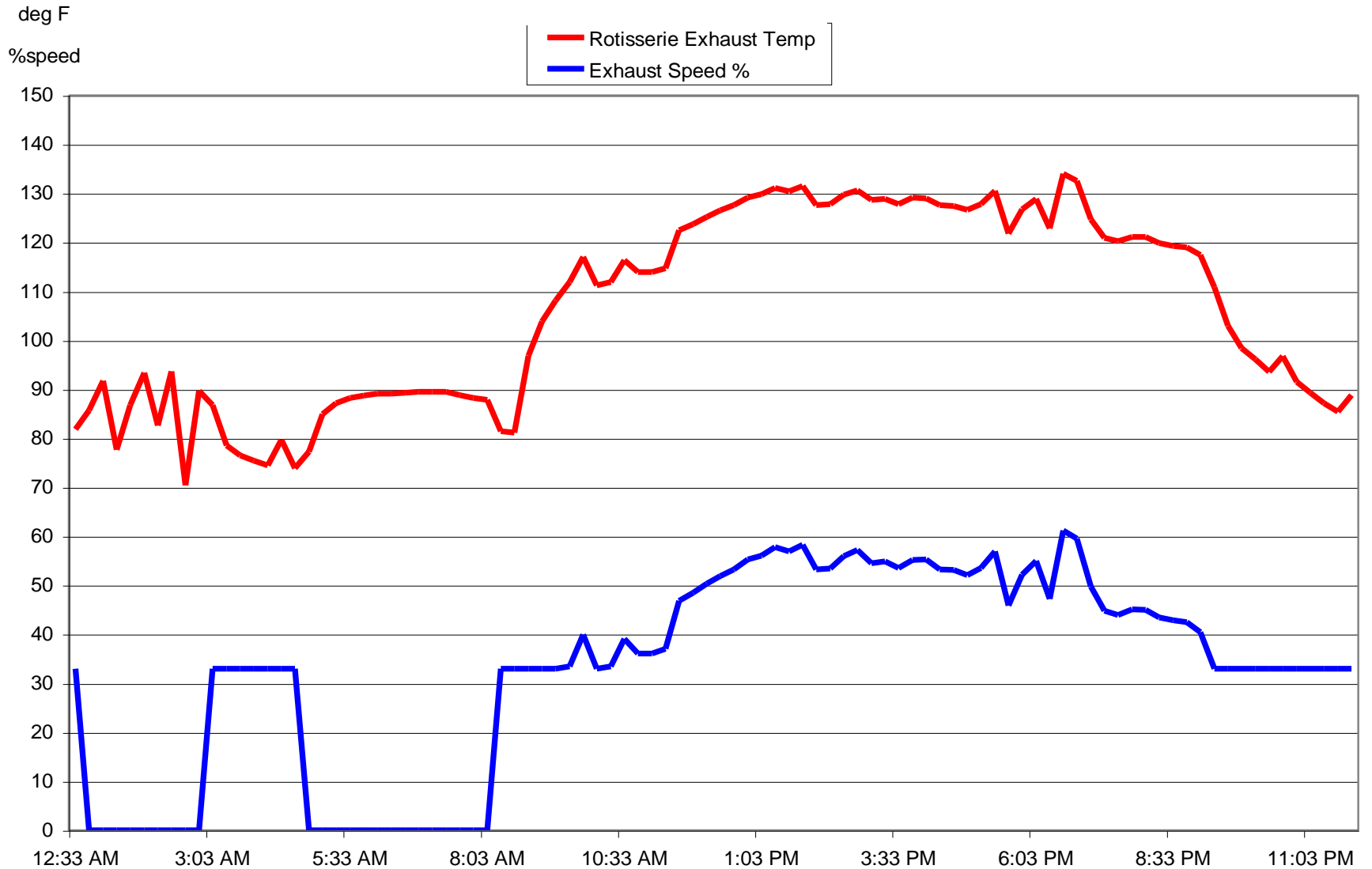


Hood 1

Deg F
% speed



Hood 2



MUA Control: Reduced Run Time by 40%



Swiss Chalet Performance Summary

Average exhaust reduction: 3100 cfm

Percentage reduction: 28 %

Hood 1 & 2 reduction: 51 %

Exhaust fan power reduction: 1.9 kW

Percentage reduction: 77 %

Makeup fan power reduction: 1.3 kW

Percentage reduction: 40 %

Total power reduction: 3.2 kW

Swiss Chalet Economic Projection

Installed control system cost: \$22,000

Calculated savings:

- fan energy	\$1680	
- MUA heating	<u>\$4900</u>	
- Total	\$6580	\$6580

Simple Payback: 3.3years

Gas @ \$0.33/m³

Electricity @ \$0.08/kWh

Boston Pizza, Whitby Ontario



Total Hood Exhaust

7500 cfm



Hood 3 @ 1755 cfm

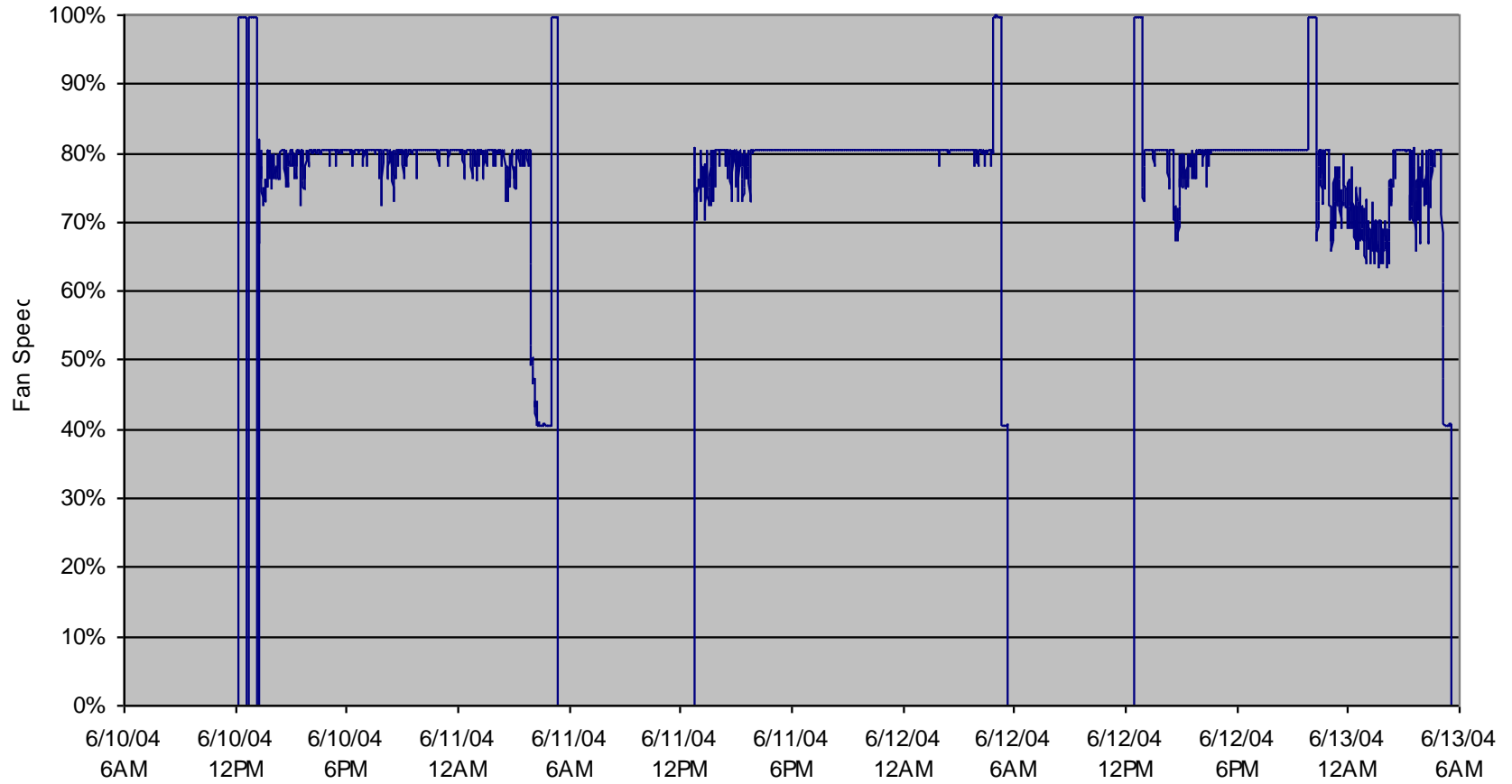
Hood 2 @ 1575 cfm



Hood 1 @ 4170 cfm

Hood 1

Boston Pizza - Whitby, ON
EF-1



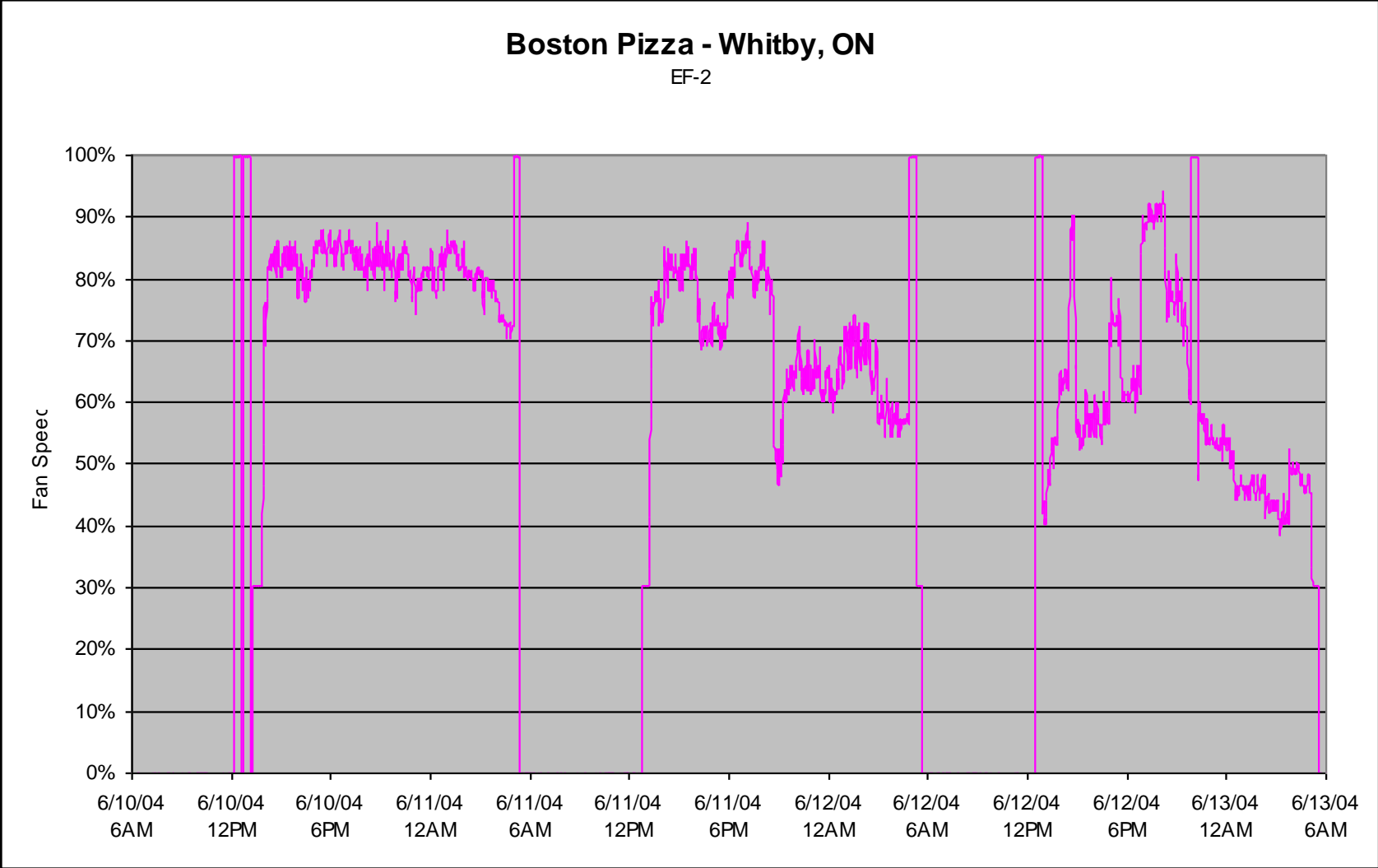
Could Hood 1 Be Improved?



Hood 2

Boston Pizza - Whitby, ON

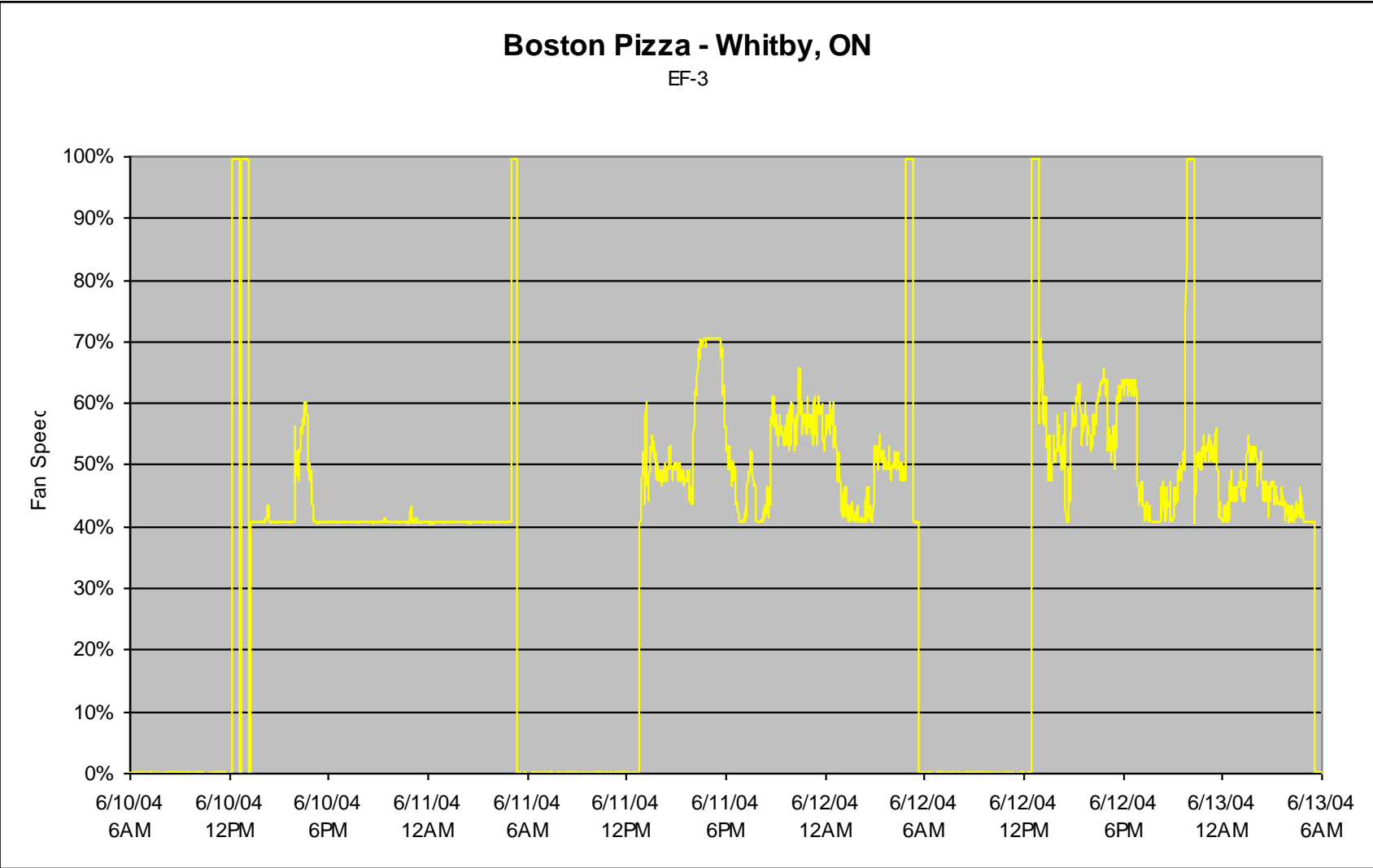
EF-2



Hood 3

Boston Pizza - Whitby, ON

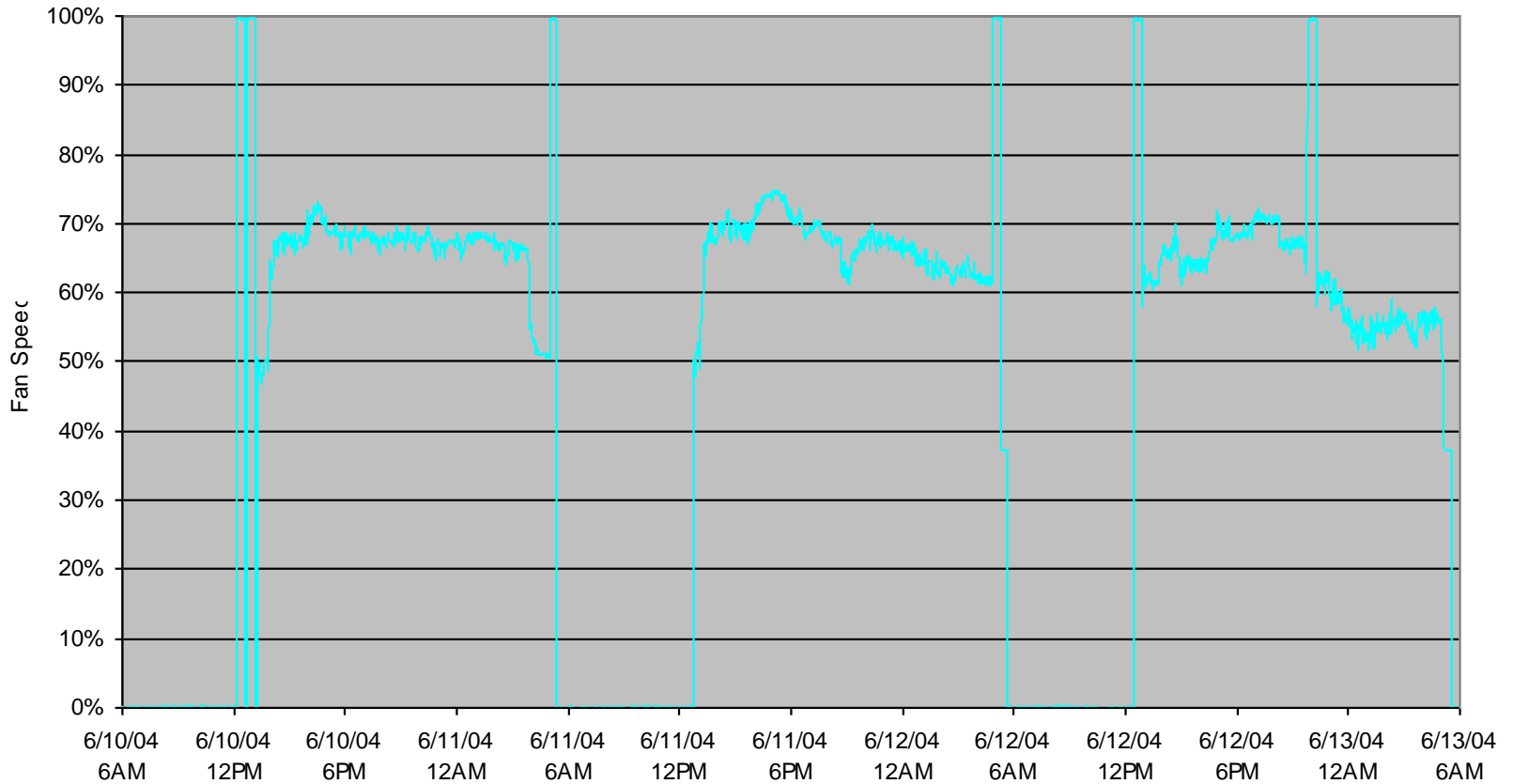
EF-3



Makeup Air

Boston Pizza - Whitby, ON

MUA



Boston Pizza Performance Summary

Average exhaust reduction: 2230 cfm

Percentage reduction: 30 %

Fan power reduction: 3.8 kW

Percentage reduction: 72 %

Boston Pizza Economic Projection

Installed control system cost: \$10,500

Calculated savings:

- fan energy	\$2000	
- MUA heating	<u>\$3500</u>	
- Total	\$5500	\$5500

Simple Payback: 1.9 years

Gas @ \$0.33/m³

Electricity @ \$0.08/kWh

Tune Up Your Kitchen Exhaust Hood



The Hood Tune-Up!



Start with
cardboard



Switch to Stainless



Enhanced C&C



End Panels Pass the Test!

