

# ESG1 EXHAUST STEAM GENERATOR

UNIVERSITY APPLICATION



## SAVINGS COMPARISON ANALYSIS

Customer Name: **Tufts University** Customer Code: University Reference: 58614

DATA without a Cain System		PERFORMANCE with a Cain System	
<b>Cat CG260-16 Engine</b>		<b>ESG1-A30L15CSS</b>	
Heat Sink	Steam	Operating Steam Pressure	10 PSIG
Waste Exhaust Temp	837°F	Final Exhaust Temp	302°F
Water Temp. Inlet	N/A	Boiler Horsepower	204 BHP
SCFM	10,463	Equivalent Evaporation	7,030 pph
Fuel Type	Natural Gas	Pressure Drop, Exhaust	1.43" WC
O2 Content	N/A	BTU/hr Recovered	6,821,000
Excess Air	N/A	BTU/hr Saved	8,526,200
Combustion Efficiency	80% (relative)	Total Cost	\$202,142
Fuel Cost Per Therm	\$ .65		
Annual Operating Hours	8,000		

**Payback: 5.5 mo.**  
**Annual ROI: 219%**  
**Annual Savings: \$443,361**

**Life Expectancy Savings: \$7,758,818** (15-20 years)

Savings comparison data is based on a conservative fuel cost per therm and approximate operating hours. Contact Cain Industries for your FREE savings analysis proposal.

Cain Industries  
 W194 N11826 McCormick Drive  
 Germantown, WI 53022 USA  
 262.251.0051 • cainind.com

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