

# HRSR HEAT RECOVERY SILENCER RADIAL



DIAMOND MINING APPLICATION – Page 1 of 2



## SAVINGS COMPARISON ANALYSIS

Customer Name: **Gahcho Kue Mines** Customer Code: Diamond Mining Reference: 56695

DATA without a Cain System		PERFORMANCE with a Cain System	
<b>Cat C175-16 Engine</b>		<b>HRSR-348B24.5SSP – 2 Units</b>	
Heat Sink	Eth. Glycol 60%	Circulating Liquid Flow	279 GPM
Waste Exhaust Temp	862°F	Final Exhaust Temp.	405°F
Liquid Temp. Inlet	200°F	Liquid Temp. Outlet	220.6°F
SCFM	4,360	Pressure Drop, Liquid	.95 PSIG
Fuel Type	Diesel	Pressure Drop, Exhaust	.91" WC
O2 Content	N/A	BTU/hr Recovered	2,439,000
Excess Air	N/A	BTU/hr Saved	3,048,600
Combustion Efficiency	80% (relative)	Total Cost	\$204,723
Fuel Cost Per Therm	\$2.50		
Annual Operating Hours	3,000		

**Payback: 10.7 mo.**  
**Annual ROI: 112%**  
**Annual Savings: \$228,642**

**Life Expectancy Savings: \$4,001,235** (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.

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**Back View of:  
HRSR-348B24.5SSP  
(4 units shown)**