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THE SOLID FUEL TECHNOLOGY INSTITUTE
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PRELIMINARY STOVE TESTS DATA SHEET

APPLIANCE NAME or NUMBER	FUEL	CYCLE	TEST No

Test:

Carried out by (Name)	Test conditions
Date	
Location	

Time	Flue Draught	Ambient	Oxygen	Flue temp	Carbon Monoxide	Carbon Dioxide	Water flow	Water Inlet	Water outlet
	Pa	**°C**	**O_2 %**	**°C**	**CO ppm**	**CO_2 %**	**kg/hr**	**°C**	**°C**
TOTALS									
MEAN									

FUEL MASS REQUIRED TO REFILL TO DATUM		kg

Hourly Burning Rate	(1/RefuelHours) x RefillMass		**kg/hr**
Efficiency (Siegert's Formula)	100 - ((MeanFlueTemp - MeanRoomTemp) x (A1 / CO2%))		**%**
Total output (in kW)	PotentialHeat x Efficiency x HourlyRate		**kW**
Water Output (in kW)	(4.18 x MeanWaterFlowratekg/hr x (MeanWaterOutletºC – MeanWaterInletºC)) / 3600		**kW**
Room Output	TotalOutput - WaterOutput		**kW**
Carbon Monoxide @ 13% O_2	(MeanCOppm / 10000) x 8 x (1 / (21 - O_2%))		**%**

For factors, see the SOLIFTEC information page 'EVALUATING STOVE PERFORMANCE' at www.soliftec.com/StovePerformance.pdf