

FURNACE A WATER FLOWMETER CALIBRATIONS

DATE: July 10, 1995

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TEST: Emissions from wood-fired residential heating furnace

water density: at 68 F= 8.3317 lb/gal; at 150F = 8.1818

water temp. during calibration = 150F

Regression Output:

TRIAL	ROTAMETER reading, gpm	FLOW lb/min meas.	FLOW gpm calc.	% difference	Calibration Constant factor	Std Err of Y Est	0.722015
1	4.60	39.50	4.83	4.72	1.049519	R Squared	0.052915
2	4.50	39.56	4.84	6.93	1.074472	No. of Observations	0.996525 4.860824
3	4.30	37.68	4.61	6.63	1.07101	Degrees of Freedom	5 4.590902
4	4.50	38.60	4.72	4.62	1.048397		4.77085
5	6.20	51.24	6.26	1.00	1.01011	X Coefficient(s)	0.89974 6.300408
6	6.10	51.33	6.27	2.77	1.028472	Std Err of Coef.	0.02376 6.210434
7	6.20	51.40	6.28	1.31	1.013264		6.300408

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Average calibration factor = 1.042178

