



Food Service Technology Center Appliance Test Summary Report

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This program is funded by the California utility rate payers under the auspices of the California Public Utilities Commission.

Manufacturer	CookTek
Model	MWG-5000
Appliance	Counter top induction Chinese (wok) range - Electric

Report Number	5012.09.35
Test Date	October, 2009
Tested By	G. Sorensen

Purpose of Testing

This testing determined the energy input rate, heatup-energy efficiency and production capacity of the Chinese (wok) range by applying ASTM F1991.

Energy Input Rate

Test Voltage (V)	208
Rated Energy Input Rate (kW)	5.0
Measured Energy Input Rate (kW)	5.2
Difference (%)	4.0



Heatup Energy Efficiency ^a

Voltage (V)	208
Weight of Water (lb)	4.000
Test Time (min)	2.38
Cooking Energy Rate (kW)	5.2
Energy to Water (Btu/lb)	132
Energy to Appliance (Btu/lb)	175
Cooking-Energy Efficiency (%)	84.3 ± 0.7
Production Capacity (lb/hr)	100.8 ± 0.0

^a based on a minimum of three test replicates.

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Heavy-Load Test Data

	Test #1	Test #2	Test #3
Measured Values			
Test Voltage (V)	208	208	208
Test Time (min)	2.38	2.38	2.38
Electric Energy to Appliance (kWh)	0.205	0.205	0.205
Initial Water Temperature (°F)	70.7	71.9	70.3
Final Water Temperature (°F)	202.7	203.1	202.3
Weight of Water (lb)	4.000	4.000	4.000
Calculated Values			
Sensible Heat to Water (Btu)	528	525	528
Sensible Heat to Utensil (Btu)	63	63	63
Total Energy to Range and Utensil (Btu)	591	587	591
Energy to Water (Btu/lb)	132	131	132
Total Energy to Appliance (Btu)	700	700	700
Energy per Pound of Water (Btu/lb)	175	175	175
Cooking-Energy Efficiency (%)	84.5	84.0	84.5
Cooking-Energy Rate (kW)	5.2	5.2	5.2
Production Capacity (lb/h)	100.8	100.8	100.8

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