

Revised Table (5/16)

Spec	Description	Importance	Relates to CN	Units	Marginal	Target	Comments/Status	WEEK 11 STATUS
1	Flow rate of air into stove	9	1,6,13	kg/min	0.3-.7	0.2-0.8		19 CFM / 0.7 kg/min @9.5V to fan
2	Flow control settings	3	6,13	#	2	3	Evenly distributed across the flow range	infinite controlability but not quantified
3	Unit price	9	3	\$	27.5	12.5		\$49 current price at 50% reduction on build price
4	Coupling time with no tools	1	2,7,12	min	10	5		Approx. 1 minute
5	Removal time with no tools	1	2,7,12,15	min	10	5		Approx. 1 minute
6	Product life span	3	4, 9	years	3	5	Assume 2 hr/use and 3 uses/day	Unknown
7	Replaceable component life span	3	4, 9	years	1	2	Rod, Fan, Battery	Rod may not last long enough
8	Aux charging	3	11,16	Wh		4	Being able to charge ~2 cell phones after stove is off	Not operational
9	Battery size	3	11,13,16	Ah		2	Energy required for 5 product startup cycles/Provide 2Ah @ 1.2V per battery cell	2.9Ah total capacity @ 4.8V
10	Weight	1	7,8,12,15	kg	<2.5	<2		Total: 2.67kg ;w/o panel box:1.76 kg
11	Volume	1	7,8,12,15	cm^3	3000	1000		Total: 7570cc ; w/o panel box: 2240cc
12	Time to reach peak performance	1	13,16	min	15	10	Within 90% of SS assuming charcoal ignites instantly	Takes approximatley 20 minutes
13	User actions during operational cycle	3	6,7,13	#	6	4		
14	User actions to protect system	3	5,7	#	1	0		None neded
15	Maximum temperature inside enclosure	3	1,4,9,14	°C	60	50		Not measured
16	Maximum external temperature of housing	3	7,8,14	°C	54	45		Not measured
17	Maximum temperature of hot side of TEG	9	9,16	°C	275	300		280 (not constant across surface)